

South Park Landfill

Remedial Investigation/ Feasibility Study



Prepared for

City of Seattle
South Park Property Development, LLC

February 2021

REVISED FINAL



Two Union Square • 601 Union Street • Suite 600
Seattle, Washington 98101 • tel: 206.292.2078

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**Remedial Investigation/
Feasibility Study**

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Detailed Historical Analysis

Appendix A

Detailed Historical Analysis

A description of the historical operations within the approximate South Park Landfill (Landfill) boundary as shown in the Remedial Investigation/Feasibility Study (RI/FS) Work Plan (Farallon 2010b) is based on historical information available in the King County Solid Waste Division (KCSWD) files (SPU 1997) and aerial photographs. This information was originally summarized in the *South Park Custodial Landfill Environmental Site Investigation Data Gaps Memorandum* (AESI 1998). Aerial photographs of the Landfill and surrounding parcels are presented in this appendix and are available from the following dates: 1936, 1941, 1946, 1948, 1951, 1953, 1956, 1960, 1963, 1967, 1969, 1974, 1977, 1980, 1982, 1985, 1990, 1992, 1995, 1996, 1997, 2000, 2002, and 2004. The following sections provide a brief description of the historical operations at the Landfill and the surrounding areas. A general timeline of the historical operations is provided in this appendix, as well as in Table 4.1 of this RI/FS.

1936 and Earlier

The First Addition River Park and Tax Lot 5, which are now occupied by the Seattle Public Utilities (SPU) South Recycling and Disposal Station (SRDS) and the South Park Property Development, LLC (SPPD) undeveloped parcel, were added to the King County (County) tax rolls via foreclosure in 1922 and 1927, respectively. The northwestern portion of the Landfill, which is now mostly occupied by the Kenyon Industrial Park (KIP) and the 7901 2nd Avenue South (7901) property, historically was part of Tax Lot 7.

Disposal of garbage and rubbish was reported in 1934 on the present day KIP and SPPD parcels (SPU 1997). The earliest available aerial photograph (1936) indicates that there were two areas of active solid waste disposal occurring in the northwest corner (present-day KIP/7901 parcels) and the southern portion (present-day SPPD parcel) of the Landfill (Figure A.1). The areas of active disposal were bordered by South Kenyon Street to the north, Occidental Avenue South to the west, and South Sullivan Street to the south. The approximately 8.6 acres of solid waste initially consisted of residential waste from south Seattle and north King County, but also later included commercial and industrial waste. City of Seattle (City) records from the early 1930s also indicated that sawdust fill was placed in the southern disposal area, to the south of the present-day South Sullivan Street alignment (Seattle Engineering Department 1934). The remaining areas of the Landfill were unused and densely vegetated, and the surrounding areas consisted of scattered agricultural parcels and undeveloped land.

A drainage ditch traversed the western boundary of the Landfill (present-day West Ditch), connecting to a drainage channel to the north of South Kenyon Street that ultimately discharged to the Duwamish Waterway. The historical West Ditch location is indicated on Figure A.1 based on modifications from topographic surveys conducted in 1899 (Bortleson, et al. 1980). The areas to the north of South Kenyon Street and the Landfill were reportedly used to deposit dredge material from the Duwamish Waterway. U.S. Army Corps of Engineers

(USACE) documentation, dated 1970, provided dredging contracts for the time period between 1931 and 1968. The USACE plan, titled *Duwamish Waterway Seattle Harbor, Condition – Nov. 30, 1935*, indicated that there were dredge disposal sites to the north of South Kenyon Street, between 1st Avenue South and 2nd Avenue South. Contract W.869 eng.894, dated January 11, 1936 (AESI 1998) also indicated that dredge material was deposited on the parcels belonging to the City and the County.

1936 to 1941

By 1941, the approximate limits of the northwest disposal area expanded southward and the southern disposal area expanded to the northwest and southeast (Figure A.2). The surrounding properties remained primarily agricultural, with residential properties to the east and southeast of the Landfill. The partially completed West Marginal Way South (State Route [SR] 99) can be identified to the northeast of the Landfill in Figure A.2.

1941 to 1951

Between 1941 and 1946 the northwest disposal area started to expand to the southeast, into the parcel now occupied by the present-day SRDS. Open burning of solid waste was apparent in this area. In addition, the extent of solid waste in the southern disposal area expanded to the northwest, but appeared to be covered with vegetation by 1946 (Figure A.3). By 1948, a majority of the disposal activities were occurring primarily in the northwestern disposal area where open burning of solid waste continued to be apparent, although not as extensive as 1946 (Figure A.4; AESI 1998). In the 1948 aerial photograph, buildings that were in the southeastern portion of the present-day SRDS parcel have been removed in apparent preparation for future disposal activities in 1951 (Figure A.4).

According to the KCSWD information, the City purchased the First Addition River Park parcel and Tax Lot 7 in 1951. In the 1951 aerial photograph, an auto-wrecking yard or used vehicle sales lot was located to the south of South Kenyon Street, which included part of the previous northwest disposal area (Figure A.5). Also in 1951, active disposal in the northwest area moved to the southeast into present-day SRDS and SPPD parcels and was bound by West Marginal Way South to the east. In the 1951 aerial photograph, a plume of smoke is visible, which appears to originate from the southeast active disposal area and move to the southwest, off of the photograph.

1951 to 1956

In 1953, an auto-wrecking yard was located to the north of South Cloverdale Street and extended across the southern disposal area (Figure A.6). An auto-wrecking yard was also located to the west of the Landfill, just to the east of 1st Avenue South. The 1953 aerial photograph shows evidence of soil disturbance consistent with the construction of unpaved parking and driveways, and a small building, on the former Glitsa American, Inc. (Glitsa),

property to the northeast of the Landfill. This is the first evidence of soil disturbance on this parcel.

The northwest corner of Tax Lot 7 was purchased by John Farrell in 1953 from the Ripley Family, with the stipulation that he waived the right to file claims related to the burning of solid waste at the Landfill. In the 1953 aerial (Figure A.6), filling of the swale begins from the east as Mr. Farrell began to acquire more useable land for his auto yard. In 1955 John Farrell purchased the parcel containing the northwest disposal area.

Based on the 1956 aerial photograph (Figure A.7), active disposal in the northwest area moved further to the southeast and was bound by West Marginal Way South to the east.

In the 1956 aerial photograph, solid waste burning areas were visible at the base of the active disposal area accessed from West Marginal Way South and the northern area accessed by South Kenyon Street (Figure A.7). In addition, a depression, which appeared to be filled with ponded liquid, was located southeast of the active disposal area (Figure A.7).

The former agricultural parcels surrounding the Landfill were developed by 1956 (Figure A.7). An auto-wrecking yard was located to the north of South Cloverdale Street and extended across the southern disposal area. The auto-wrecking yard to the north of South Cloverdale Street expanded across former agricultural parcels to 1st Avenue South and Mr. Farrell was continuing to clear and fill the swale. An area to the west of Occidental Avenue South appeared to be a log sorting yard. According to Washington State Highway Commission SR 509 Burien to JCT. P.S.H. No. 1 Right-of-Way plans (WSDOT 1957), gas stations were located on parcels along 1st Avenue South at Occidental Avenue South and South Kenyon Street. At the former Glitsa property, the 1956 aerial photograph indicates additional clearing related to the construction and operation of a small private facility (Auto Top and Trim). An auto-wrecking yard was also located to the south of South Kenyon Street, which included part of the northwest disposal area. Continued auto wrecking activities are evident to the west and east of the swale on the KIP property.

1956 to 1960

According to KCSWD files, the County purchased Tax Lot 5 (present-day SPPD parcel) in 1957, and in 1958 the City began leasing the property for rubbish disposal (SPU 1997). Also in 1958, the County deeded a portion of the southwest corner of the property to the State of Washington for highway development. The 1960 aerial photograph (Figure A.8) indicates that the northern disposal area continued to expand southward, connecting to the southern disposal area. Active disposal primarily occurred in the central portion of the Landfill, where open burning took place. The auto-wrecking yard to the south of South Kenyon Street expanded westward, bound by 1st Avenue South to the west.

The 1960 aerial photograph indicates the presence of an industrial warehouse building (circa 1959) on the former Glitsa property to the northeast of the Landfill. The former Glitsa property was owned by Farwest Paint Manufacturing Company until 1978. The property had a

7,500-gallon Stoddard-solvent underground storage tank (UST) located to the east of the warehouse building that was installed in 1964 (Environmental Associates 2009a).

Additional dredge material was disposed of north of South Kenyon Street (approximately 667,055 cubic yards of material from maintenance dredging activities from October 14 to November 30, 1957) as documented by USACE records, which include correspondence from the General Construction Company.

1960 to 1969

The burning of rubbish in the Landfill was halted in approximately 1961 (Farallon 2010b) and, by 1963 (Figure A.9), the Landfill capacity began to diminish. Landfill operations included the placement and compaction of rubbish, fire control by watering, and soil movement (AESI 1998). The East-West Channel was constructed across the southern part of the Landfill by 1963. In September 1965 and October 1966, the County deeded the land located along the present-day SPPD parcel boundary (along 5th Avenue South and South Sullivan Street) for roadway development (SPU 1997). The SRDS was built in 1966 (shown a year later on Figure A.10), when the Landfill stopped receiving municipal solid waste (SPU 1997; Ecology and Environment 1988), and completed in 1967.

The 1967 aerial photograph (Figure A.10) shows the East-West Channel on the present-day SPPD parcel, extending from 5th Avenue South to the West Ditch. The active disposal of fill continued in several areas to the north of the East-West Channel, while, to the south, grading activities were completed. The auto-wrecking yard to the north of South Cloverdale Street continued operations and moved eastward. This resulted in the abandonment of a portion of South Sullivan Street. Development for the present-day KIP, south of South Kenyon Street, began as the eastern portion of the auto-wrecking yard migrated westward and two buildings were constructed, one on the present-day KIP parcel and the other on the 7901 parcel.

In 1968, the County extended the City's lease for the present-day SPPD parcel for the disposal of clean fill and earthen material for an additional 10 years (SPU 1997). Filling and grading activities continued on the present-day SPPD parcel as shown on the 1969 aerial photograph (Figure A.11). Filling activities on the adjacent triangular parcel to the east of 5th Avenue South appear at this time, but there is no indication that the City or County controlled this property, and filling activities were not related to the Landfill, as the Landfill stopped receiving waste in 1966. Also during this time, South Sullivan Street relocated approximately 150 feet north of its original position onto the southern portion of the former southern disposal area. To the southwest of the Landfill, the SR 509 and South Cloverdale Street interchange was completed and the two gas stations located along 1st Avenue South (at South Kenyon Street and Occidental Avenue South) were abandoned. To the northeast of the Landfill, commercial developments increased. On the KIP property, the auto-wrecking yard continued to expand into the swale.

1969 to 1980

Activity at the Landfill appeared to decrease after 1969. City sewer records show the KIP subsurface drainage system (KIP main stormwater line) was completed beneath the KIP in 1971. The KIP main stormwater line currently receives the West Ditch discharge. Cement kiln dust (CKD) was likely used as fill during the installation of the KIP main stormwater line. It was observed in several soil gas monitoring probes installed in the vicinity of the KIP main stormwater line as part of this RI/FS. In addition, CKD fill was likely placed to the north of South Kenyon Street, where it was found to be as much as 12 feet thick in the vicinity of the former South Kenyon Street Bus Yard (AMEC 2009a). CKD was also found in the Renton Effluent Transfer System (RETS) soil borings; therefore, it is suspected that CKD may also have been used as fill on the parcels to the east of 5th Avenue South and east of the Landfill.

The 1974 aerial photograph (Figure A.12) indicates that grading activities continued at the Landfill on the present-day SPPD parcel. By 1974, the auto-wrecking yard to the south of South Kenyon Street was abandoned, the swale was completely filled in, the parcel was paved, and additional buildings were built. To the north of South Kenyon Street, the former South Kenyon Street Bus Yard was occupied by vehicles and containers owned by Newton Auto Parts and Wrecking in 1975, B&G Auto Wrecking from 1980 to 1996, and Bry's Auto Wrecking in 2002 (AMEC 2009a). To the east of 5th Avenue South there were several additional commercial developments on the parcel, which was previously filled with CKD.

In 1976, the City submitted a request to purchase the SPPD parcel (SPU 1997).

In 1977 (Figure A.13), the present-day SPPD parcel contained a storage area. The former log sort yard, to the southwest of the Landfill, was developed into the Northstar Ice Equipment facility. In 1978, the City's lease of the SPPD parcel expired (SPU 1997). Negotiations between the County and the City continued until 1984 (SPU 1997). In 1980 (Figure A.14), the storage area in the northwest portion of the present-day SPPD parcel expanded and included drum storage. There was also additional filling and grading north of the East-West Channel. An extension of 2nd Avenue South was also created along the western border of the present-day SRDS parcel at this time.

1980 to 1997

The 1982 aerial photograph (Figure A.15) shows the present-day SPPD parcel, south of the East-West Channel, as mostly vegetated, and the northwestern portion as used for storage. The auto-wrecking yard to the north of South Cloverdale Street was abandoned and developed into the Emerson Power Products facility.

As of 1984, the northwestern portion of the present-day SPPD parcel was used primarily for leased storage. County records show that approximately 22,000 square feet of property was leased to United Motor Freight, Inc., The lease was modified in June 1984 to a total of 66,000 square feet to be used for truck and trailer storage. The 1985 aerial photograph (Figure A.16) confirms the presence of trucks and trailers in this area. Between 1985 and 1986,

United Motor Freight, Inc., Tacoma-Seattle Trailer Repair, and Razore Enterprises, Inc., were granted leases for the northwestern portion of the present-day SPPD parcel. Tacoma-Seattle Trailer Repair and Razore Enterprises, Inc., notified the County of their intent to terminate their leases in December 1987 and September 1989, respectively. In 1986, Liberty Service Corporation purchased the northwest corridor of Tax Lot 7 from John Farrell. In 1987, approximately 4,500 square feet of the eastern portion of the present-day SPPD parcel was leased to Herb Young Trucking for truck, trailer, and equipment parking. Surrounding commercial and industrial properties continued to develop, including the Cloverdale Business Park to the south of the Landfill. The parcel to the north of South Kenyon Street continued to be used as an auto-wrecking yard and storage area.

The leased areas of the present-day SPPD parcel continued to expand throughout the 1990s. Bainbridge Trucking leased approximately 20,000 square feet of property for yard space in 1993. In 1994, Certified Leasing was granted a lease of 20,000 square feet in the northwest portion of the present-day SPPD parcel, and Joe Alexander leased 32,000- and 9,000-square-foot areas for truck storage in the eastern portion of the present-day SPPD parcel. Subsequent lessees also included Chicken and Egg Productions (10,000 square feet, January 1995) and Ryder Truck Rental (10,000 square feet, February 1996). Certified Leasing notified the County of their intent to terminate their lease in June 1996. The 1990 (Figure A.17), 1992 (Figure A.18), 1995 (Figure A.19), 1996 (Figure A.20), and 1997 (Figure A.21) aerial photographs confirm the use of the present-day SPPD parcel for storage. Dense vegetation covered areas of the present-day SPPD parcel that were not used for storage or access roads. Parcels surrounding the Landfill otherwise remained essentially unchanged between 1985 and 1997 (WHPacific, Inc. 1997).

1997 to Present

The 2000 aerial photograph (Figure A.22) shows that the present-day SPPD property was no longer being leased for storage. The County was actively pursuing the sale of the property at this time. The 2002 aerial photograph (Figure A.23) shows that the parcel to the north of South Kenyon Street was no longer being used as an auto-wrecking yard and was instead used as a bus yard (former South Kenyon Street Bus Yard). No other significant changes were documented at the Landfill or the surrounding parcels in 2004 (Figure A.24). The northeast corner of the KIP parcel was purchased by John Hill from Janice Farrell in 2005. Later that year, it was again sold, this time to 7901 2nd Avenue South, LLC. The present-day SPPD parcel was sold to the SPPD in 2006. The parcel was later cleared of vegetation and crushed concrete was added to amend the grade before the parcel was leased for equipment storage.

In 2008, the northwest corner of the KIP parcel was purchased by Harsch Investment Properties, LLC from Statewide Mortgage Service Corporation.

Presently, the former South Kenyon Street Bus Yard, north of South Kenyon Street, is being redeveloped for the South Transfer Station. As part of the new construction, the petroleum-impacted soil and CKD fill to the north of South Kenyon Street was removed (AMEC 2009b).

Table

**Table A.1
Historical Operations and Owners**

Date	Current Parcels	Owner	Activity	Aerial Photograph ¹
1936 and Earlier				
1922	SRDS	King County	First Addition River Park (South Recycling and Disposal Station [SRDS]) added to King County Tax Rolls via foreclosure (SPU 1997).	
1927	SPPD	King County	Tax Lot 5 (South Park Property Development [SPPD]) added to King County Tax Rolls via foreclosure (SPU 1997).	
1934	KIP, SPPD	King County	Reported dumping of garbage and rubbish on Kenyon Industrial Park (KIP) and SPPD parcels and sawdust fill on southern portion of SPPD parcel (Seattle Engineering Department 1934).	
1936 to 1941				
1936	KIP, SPPD	King County	Active dumping of refuse on KIP and SPPD parcels.	X
1941	KIP, SPPD	King County	Continued active dumping of rubbish on KIP and SPPD parcels. Open burning of refuse was occurring.	X
1941 to 1951				
1946	SRDS	King County	Active dumping of rubbish expanded onto SRDS parcel. Open burning of refuse was occurring	X
1948	SRDS, KIP, SPPD	King County	Open burning of rubbish was documented (AESI 1998).	X
1951	SRDS, KIP	City of Seattle	First Addition River Park (SRDS) and Tax Lot 7 (KIP) were purchased by the City of Seattle out of Tax Title Status (SPU 1997). Auto-wrecking evident on northwest KIP.	X
1951 to 1956				
1953	KIP	John Farrell	John Farrell purchased the northwest corner of Tax Lot 7 (KIP) from the Ripley family; waived right to file claims related to burning of rubbish (SPU 1997).	X
1955	KIP	John Farrell	John Farrell purchased the rest of the parcel containing the northwest disposal area (and potentially 7901 2 nd Avenue South) from the City of Seattle.	
1956	SRDS, KIP, SPPD	City of Seattle and King County	Auto-wrecking yards developed on the SPPD parcel. Aerial photograph evidence of active burning of rubbish on SRDS parcel.	X
1956 to 1960				
1957	SPPD	King County	King County (Health Department) purchased Tax Lot 5 (SPPD) out of Tax Title Status (SPU 1997).	
1958	SPPD	King County	King County leased SPPD property to City of Seattle for rubbish disposal (10-year period). Deeded southwest portion of Tax Lot 5 (SPPD) to the State of Washington for SR 509 (SPU 1997).	
1960	SRDS, SPPD	City of Seattle and King County	Expansion of active dumping of rubbish on SRDS and SPPD parcels. Aerial photograph evidence of active burning of rubbish.	X
1960 to 1969				
1961	SRDS, SPPD	City of Seattle and King County	Reported end of rubbish burning (Farallon 2010b).	
1963	SRDS, KIP, SPPD	City of Seattle and King County	Filling and grading activities on SRDS, KIP, and SPPD parcels.	X
1965 to 1966	SPPD	King County	King County deeded eastern portions of SPPD parcel to the City of Seattle for streets (SPU 1997).	
1966	SRDS	City of Seattle	SRDS parcel stopped receiving rubbish (SPU 1997; Ecology and Environment, Inc. 1988).	
1967	SRDS	City of Seattle	SRDS completed and opened.	X
1967	KIP	City of Seattle	Initial development of KIP (two buildings).	X
1967	SPPD	King County	East-West Channel constructed.	X
1967	KIP, SPPD	City of Seattle and King County	Continued filling and grading activities on KIP and SPPD parcels.	X
1968	SPPD	King County	City of Seattle renewed its lease from King County for clean fill and earthen material disposal for 10-year period (SPU 1997).	
1969	SPPD	King County	Continued filling and grading activities on SPPD parcel. Re-alignment of South Sullivan Street.	X

**Table A.1
Historical Operations and Owners**

Date	Current Parcels	Owner	Activity	Aerial Photograph ¹
1969 to 1980				
1974	KIP	City of Seattle	Completion of development of KIP (total of four buildings, as well as paved surfaces across entire parcel). Completion of KIP main stormwater line.	X
1974	SPPD	King County	Grading activities continue on SPPD parcel.	X
1976	SPPD	King County	City of Seattle submitted request to purchase the SPPD parcel (SPU 1997).	
1977	SPPD	King County	A portion of the SPPD parcel was used for storage. Filling and grading was occurring on the property.	X
1978	SPPD	King County	City of Seattle's lease of SPPD parcel expired (SPU 1997).	
1979 to 1984	SPPD	King County	Negotiations between King County and City of Seattle for purchase of SPPD parcel (SPU 1997).	
1980	SPPD	King County	Continued storage on SPPD parcel.	X
1980 to 1997				
1982	SPPD	King County	Continued storage on SPPD parcel.	X
1984	SPPD	King County	King County leased the SPPD parcel to multiple entities (AESI 1998).	
1985	SPPD	King County	Continued leased storage on SPPD parcel.	X
1986	KIP	Liberty Service Corporation	Northwest corner of Tax Lot 7 (KIP) purchased by Liberty Service Corporation from John Farrell (King County 2016). ²	
1990	SPPD	King County	Continued leased storage on SPPD parcel.	X
1992	SPPD	King County	Continued leased storage on SPPD parcel.	X
1995	SPPD	King County	Continued leased storage on SPPD parcel.	X
1996	SPPD	King County	Continued leased storage on SPPD parcel.	X
1997	SPPD	King County	Continued leased storage on SPPD parcel.	X
1997	KIP	Statewide Mortgage Service Corporation	Northwest corner of KIP parcel purchased by Statewide Mortgage Service Corporation from Liberty Service Corporation via foreclosure (King County 2016). ²	X
1997 to Present				
2000	SPPD	King County	SPPD parcel no longer leased for storage; King County actively pursued sale of parcel.	X
2002	SPPD	King County	No activity.	X
2004	SPPD	King County	No activity.	X
2005	KIP	John Hill	Northeast corner of KIP parcel purchased by John Hill from Janice Farrell (King County 2016). ²	
2005	KIP	7910 2 nd Avenue South, LLC	Northeast corner of KIP parcel purchased by 7901 2 nd Ave S, LLC from John Hill (King County 2016). ²	
2006	SPPD	SPPD	SPPD parcel sold to SPPD in June 2006 (Farallon 2010b). Parcel was cleared of vegetation and crushed concrete was added to amend the grade.	
2008	KIP	Harsch Investment Properties, LLC	Northwest corner of KIP parcel purchased by Harsch Investment Properties, LLC from Statewide Mortgage Service Corporation (King County 2016). ²	

Notes:

- 1 Aerial photographs are presented in Appendix A.
- 2 Information taken from the King County Parcel Viewer (<http://www.kingcounty.gov/operations/gis/propresearch/parcelviewer.aspx>) in October 2011.

City of Seattle Ordinance No. 121306



City of Seattle Legislative Information Service

Information retrieved on May 29, 2014 7:57 PM

Council Bill Number: 114695
Ordinance Number: 121306

AN ORDINANCE authorizing the transfer of jurisdiction over certain real property located in Seattle adjacent to the South Recycling and Disposal Station from the Fleets and Facilities Department to Seattle Public Utilities upon payment of \$200,000.

Status: Passed
Date passed by Full Council: October 6, 2003
Vote: 8-0 (Excused: Compton)
Date filed with the City Clerk: October 15, 2003
Date of Mayor's signature: October 14, 2003
[\(about the signature date\)](#)

Date introduced/referred to committee: September 15, 2003
Committee: Finance, Budget, Business and Labor
Sponsor: DRAGO

Index Terms: LAND-ACQUISITION, SEATTLE-PUBLIC-UTILITIES, TRANSFER-STATIONS, SOLID-WASTE

Fiscal Note: [Fiscal Note to Council Bill No. 114695](#)

Text

ORDINANCE _____

AN ORDINANCE authorizing the transfer of jurisdiction over certain real property located in Seattle adjacent to the South Recycling and Disposal Station from the Fleets and Facilities Department to Seattle Public Utilities upon payment of \$200,000.

WHEREAS, certain real property described in Section 1 (the "Property") was acquired by deed from King County in 1965 and accepted by Ordinance 94258 for general corporate purposes; and

WHEREAS, Seattle Public Utilities has requested jurisdiction over the Property for the purpose of improving its solid waste operations; and

WHEREAS, no other proposals for the use of the Property were received from City departments or other public agencies; and

WHEREAS, the price to be paid for transfer of jurisdiction over the Property to Seattle Public Utilities takes into consideration the appraised value of the Property and estimated costs of environmental remediation; and

WHEREAS, the proposed transfer of jurisdiction has been reviewed by the Fleets and Facilities Department's Real Estate Services and the

City's Real Estate Oversight Committee, both of which approve the proposed transfer; NOW, THEREFORE,

BE IT ORDAINED BY THE CITY OF SEATTLE AS FOLLOWS:

Section 1. The Director of the Fleets and Facilities Department is hereby authorized to transfer to Seattle Public Utilities, and the Director of Seattle Public Utilities is hereby authorized to accept for purposes of solid waste operations, jurisdiction over the real property legally described as follows:

Those portions of Government Lots 2 and 4 in Section 32, Township 24 North, Range 4 East W. M., King County, Washington, as follows:

A strip of land, 60 feet in width, lying between lines and lines extended, the west line being 60 feet west of, as measured at right angles to and parallel with the following described east line: Beginning on the north line of said section, 264 feet east from the northwest corner thereof; thence south 16(31'06" east, 547.61 feet; thence easterly to intersect a point on a line drawn south 2(03'26" west from a point on the north line of said section, 73.81 feet west of the west line of Geo. Holt Donation Claim No. 51, said point being 516.36 feet south of said north line; thence continuing easterly along said line to the west line of said Donation Claim and the true point of beginning; thence south along the west line of said Donation Claim to an intersection with a line distant 30 feet south of and parallel with the south line of Block 6, 1st Addition to River Park, according to the plat thereof recorded in Volume 8 of Plats, page 65, Records of King County, Washington.

Except that portion thereof described as follows:

Beginning at the intersection of the westerly line of 2nd Avenue South as established by Ordinance No. 80494 with the north line of said Section 32; thence south 0(03'30" west along the westerly line of said 2nd Avenue South 515.825 feet; thence north 89(43'54" east 20 feet to the true point of the beginning; thence south 0(03'30" west 234 feet; thence north 89(43'54" east 20 feet; thence north 0(03'30" east 234 feet; thence south 89(43'54" west 20 feet to the true point of beginning.

And,

A strip of land, 30 feet in width, lying between lines and lines extended, the south line being 30.00 feet south of, as measured at right angles to and parallel with the following described north line: Beginning at the intersection of the west line of Geo. Holt Donation Claim No. 51 with the south line of Block 6, 1st Addition to River Park, according to the plat thereof recorded in Volume 8 of Plats, page 65, Records of King County, Washington; thence easterly along said south line of said block to the southeast corner of Lot 1, said Block 6.

Section 2. The transfer of jurisdiction authorized herein shall occur upon Seattle Public Utilities' deposit of the sum of Two Hundred Thousand Dollars (\$200,000) in the Unrestricted Subaccount of the Cumulative Reserve Subfund (00164), in accordance with SMC 5.80.030.

Section 3. This ordinance shall take effect and be in force thirty (30) days from and after its approval by the Mayor, but if not approved and returned by the Mayor within ten (10) days after presentation, it shall take effect as provided by Municipal Code Section 1.04.020.

Passed by the City Council the ____ day of _____, 2003, and signed by me in open session in authentication of its passage this ____ day of _____, 2003.

President _____of the City Council

Approved by me this ____ day of _____, 2003.

Gregory J. Nickels, Mayor

Filed by me this ____ day of _____, 2003.

City Clerk

(Seal)

John Kennedy/et

PMA 4251 Ordinance.doc

July 14, 2003

version #4

ATTACHMENT 1

PRELIMINARY REPORT

PMA 4251

EVALUATION OF REUSE AND DISPOSAL OPTIONS OF TWO STRIPS OF LAND

Resolution 29799 directs the Executive is to make its recommendations on the reuse or disposal of excess property on a case by case basis, using the Procedures for Evaluation of the Reuse and Disposal of the City's Real Property adopted by that resolution. Additionally, the Resolution identifies guidelines that are to be considered in making a recommendation. This report addresses each of

the guidelines outlined in Resolution 29799 in support of the recommendation.

Property Management Area: Two strips of land, one 30-foot wide and one 60 foot-wide, adjacent to the South Recycling and Disposal Station (PMA#3670).

BACKGROUND INFORMATION

Legal Description: Those portions of Government Lots 2 and 4 in Section 32, Township 24 North, Range 4 East W. M., King County, Washington, described as follows:

A strip of land, 60 feet in width, lying between lines and lines extended, the west line being 60 feet west of, as measured at right angles to and parallel with the following described east line: Beginning on the north of said section, 264 feet east from the northwest corner thereof; thence south 16(31'06" east, 547.61 feet; thence easterly to intersect a point on a line drawn south 2(03'26"west from a point on the north line of said section, 73.81 feet west of the west line of Geo. Holt Donation Claim No. 51, said point being 516.36 feet south of said north line; thence continuing easterly along said line to the west line of said Donation Claim and the true point of beginning; thence south along the west line of said Donation Claim to an intersection with a line distant 30 feet south of and parallel with the south line of Block 6, 1st Addition to River Park, according to the plat thereof recorded in Volume 8 of Plats, page 65, Records of King County, Washington.

Except that portion thereof described as follows:

Beginning at the intersection of the westerly line of 2nd Avenue South as established by Ordinance No. 80494 with the north line of said Section 32; thence south 0(03'30" west along the westerly line of said 2nd Avenue South 515.825 feet; thence north 89(43'54"east 20 feet to the true point of the beginning; thence south 0(03'30"west 234 feet; thence north 89(43'54" east 20 feet; thence north 0(03'30" east 234 feet; thence south 89(43'54" west 20 feet to the true point of beginning.

And,

A strip of land, 30 feet in width, lying between lines and lines extended, the south line being 30.00 feet south of, as measured at right angles to and parallel with the following described north line: Beginning at the intersection the west line of Geo. Holt Donation Claim No. 51 with the south line of Block 6, 1st Addition to River Park, according to the plat thereof recorded in Volume 8 of Plats, page 65, Records of King County, Washington; thence easterly along said south line of said block to the southeast corner of Lot 1, said Block 6.

Physical Description and Related Factors: The two rectangular strips of land contain a combined total of 42,120 square feet and abut the existing South Recycling and Disposal Station Transfer in an "L" shape.

GUIDELINE A: CONSISTENCY

The analysis should consider the purpose for which the property was originally acquired, funding sources used to acquire the property, terms and conditions of original acquisition, the title or deed conveying the property, or any other contract or instrument by which the City is bound or to which the property is subject, and City, state or federal ordinances, statues and regulations.

The subject parcels were acquired by deed from King County in 1965 and accepted by Ordinance 94258. The ordinance indicates the purpose of the acquisition was in connection with the Garbage Utility receiving and transfer station provided for under Ordinance 94095 (1965). However, the properties were accepted for General Corporate Purposes and, therefore, jurisdiction is currently with FFD, with one exception. As shown on the attached map, a portion of the sixty feet wide strip was conveyed for sanitary sewer purposes by Ordinance 105330 in 1976.

Guideline B: Compatibility and Suitability

The recommendation should reflect an assessment of the potential for use of the property in support of adopted Neighborhood Plans, as or in support of low-income housing, in support of economic development, in support of affordable housing, for park or open space; in support of Sound Transit Link Light Rail station area development; as or in support of child care facilities, and in support of other priorities reflected in adopted City policies.

Context. These two narrow parcels abut two boundaries of the South Recycling and Disposal Station. They also abut the King County landfill site to the south and west, which has been periodically under consideration for economic development. The siting and dimensions of the parcels limit the usability of the site.

Range of Options. The Seattle Public Utilities (SPU) requested the properties in support of ongoing operations of the South Recycling and Disposal Station and/or expansion and reconfiguration of the facility as a re-use, recycle, self-haul operation. No other City Departments and public agencies expressed any interest in the subject properties during the circulation process. Other than City use, the most likely use would be consolidation with the County's property for future development. Due to zoning, adjoining uses, and physical characteristics, the parcels are unsuitable for development in support of other priorities reflected in adopted City policies such as housing or childcare.

Guideline C: Other Factors

The recommendation should consider the highest and best use of the property, compatibility of the proposed use with the physical characteristics of the property and with surrounding uses, timing and term of the proposed use, appropriateness of the consideration to be received, unique attributes that make the property hard to replace, potential for consolidation with adjacent public property to accomplish future goals and objectives, conditions in the real estate market, and known environmental factors that make affect the value of the property.

Highest and Best Use: An appraisal was conducted for the property in January 1999, and updated in August 2001. The appraiser concluded that the highest and best use of the property would be for industrial warehouse use.

Compatibility with the physical characteristics: The physical characteristics of the property, specifically the narrow width, would not support uses except in conjunction with either of the adjoining properties.

Compatibility with surrounding uses: Utilization as an expanded transfer station or recycling facility will be compatible with the surrounding industrial nature of the area and will allow the City to maintain the parcels in a relatively undeveloped state.

Potential for Consolidation with adjacent public property:

The Transfer of Jurisdiction will, in effect, consolidate the parcels with existing Seattle Public Utilities property at the South Recycling and Disposal Station.

Timing and Term of Proposed Use: SPU is entering into a Master Plan for solid waste collection and disposal which will drive the specific use for the site as either a re-use, recycle, self-haul operation or expansion of the existing operation for solid waste transfer. SPU has identified funding for the transfer of jurisdiction.

Appropriateness of the consideration: An appraisal report, dated 08/03/2001, indicated the value of the property to be \$380,000. The report assumed the site to be free and clear of all contamination and toxic materials, because no environmental or soil survey was provided to the appraiser. FFD and SPU negotiated an adjusted transfer value of \$200,000 based on remediation cost projections made by SPU staff familiar with clean-up expenses.

Known environmental factors:

Intense industrial use have left their residue throughout the Duwamish corridor, with contamination resulting from discharges, spills, dust and dredging. Contamination is especially hazardous in the corridor because the pollutants move via groundwater and surface water runoff.

Guideline D: Sale

The recommendation should evaluate the potential for selling the property to non-City public entities and to members of the general public.

The only other public entity is King County. The County owns a former landfill site to the south and west of the subject parcels. Given the request from SPU for the property to meet its solid waste operations needs, this option is not recommended.

RECOMMENDATION

The Real Estate Oversight Committee recommends that the Council approve a transfer of jurisdiction over the property from the Fleets and Facilities Department to Seattle Public Utilities upon deposit of the compromised value, \$200,000, into the Cumulative Reserve Fund.

PROPERTY REVIEW PROCESS DETERMINATION FORM

Property Name: PMA 4251 Two strips of land, 30 feet and 60 feet wide in the NW 1/4 of Sec 32, Twn 24N , Rng 4 E.W.M., King County, Washington

Address: Adjacent to South Transfer Station (PMA 3670)

PMA ID: 4251 Subject Parcel #: 21623 and 21624

Dept./Dept ID: FFD Current Use: Unused

Area (Sq. Ft.): 42,120 sq. ft. Zoning: IG2U/65'

Est. Value: \$380,000 less remediation Assessed Value: No tax account number

PROPOSED USES AND RECOMMENDED USE

Department/Governmental Agencies:	Proposed Use:
Seattle Public Utilities	Expansion of recycling facility
Other Parties wishing to acquire:	Proposed Use:
None	Not applicable

RES'S RECOMMENDED USE: Transfer to SPU for recycling facility

PROPERTY REVIEW PROCESS DETERMINATION (circle appropriate response)

1.) Is more than one City dept/Public Agency wishing to acquire?	No / Yes	15
2.) Are there any pending community proposals for Reuse/Disposal?	No / Yes	10
3.) Have citizens, community groups and/or other interested parties contacted the City regarding any of the proposed options?	No / Yes	10
4.) Will consideration be other than cash?	No / Yes	10

5.) Is Sale or Trade to a private party being recommended?	No / Yes	25
6.) Will the proposed use require changes in zoning/other reg's?	No / Yes	20
7.) Is the estimated Fair Market Value between \$250,000-\$1,000,000?	No / Yes	10
8.) Is the estimated Fair Market Value over \$1,000,000?	No/ Yes	45
Total Number of Points Awarded for "Yes" Responses:		10

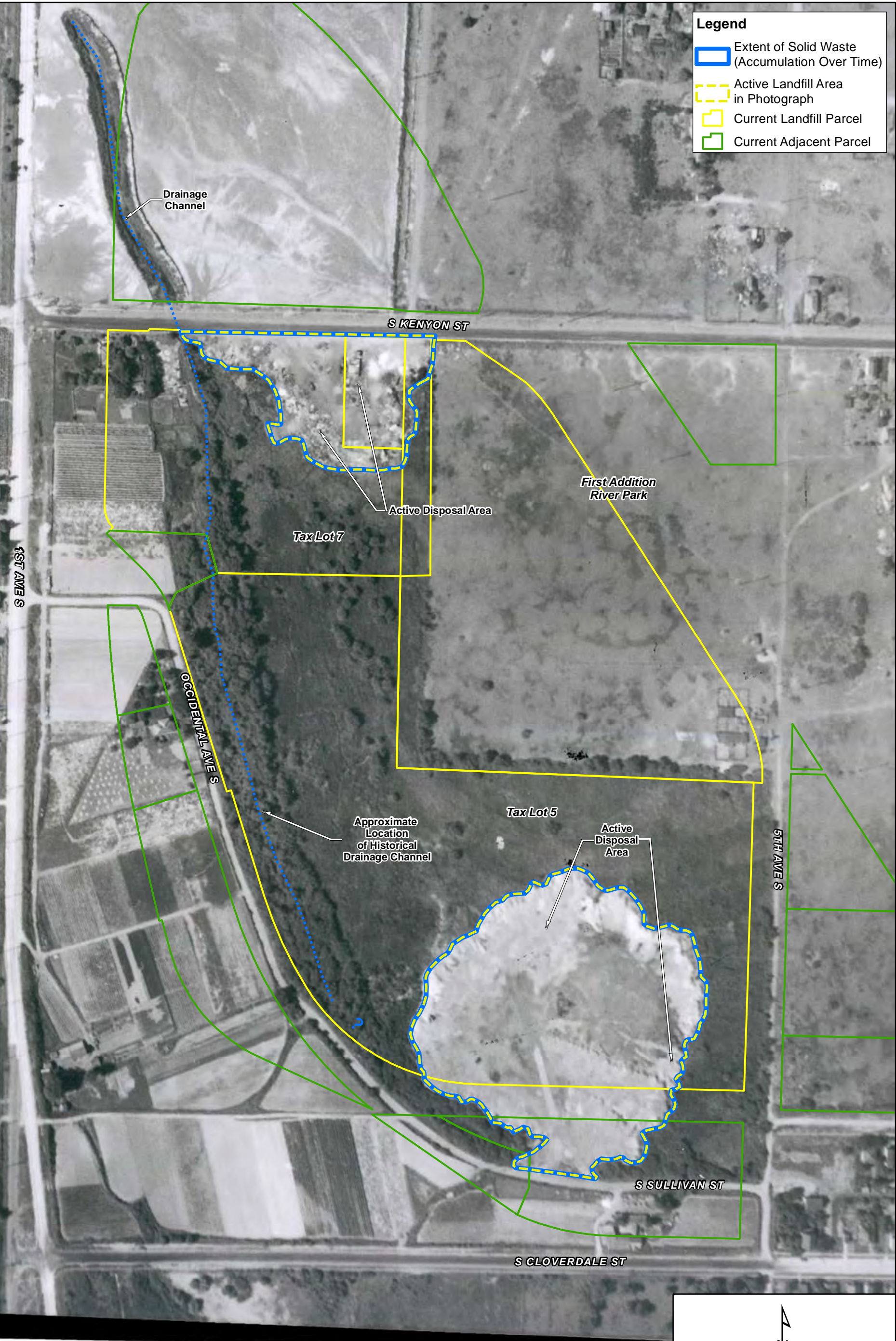
Property Classification for purposes of Disposal review: Simple / Complex
(circle one) (a score of 45+ points results in "Complex" classification)

Signature: John Kennedy Department: FFD Date: 08/17/2001

Attachment 1 - South Recycling and Disposal Station



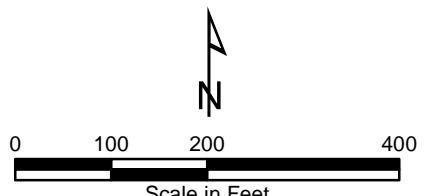
Figures



Legend

- Extent of Solid Waste (Accumulation Over Time)
- Active Landfill Area in Photograph
- Current Landfill Parcel
- Current Adjacent Parcel

Notes:
 • Tax parcels provided by King County Geographic Information Systems Center.
 • Aerial imagery provided by Seattle Public Utilities.



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**Remedial Investigation/Feasibility Study
 South Park Landfill
 Seattle, Washington**

Figure A.1
 Site Aerial Photograph 1936



Legend

- Extent of Solid Waste (Accumulation Over Time)
- Active Landfill Area in Photograph
- Current Landfill Parcel
- Current Adjacent Parcel

Drainage Channel

S KENYON ST

Active Disposal Area

1ST AVE S

OCCIDENTAL AVE S

Approximate Location of Historical Drainage Channel

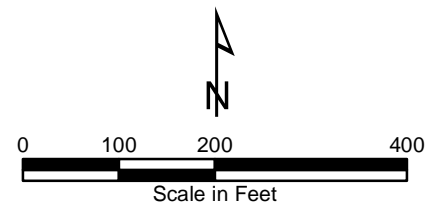
5TH AVE S

Active Disposal Area

S SULLIVAN ST

S GLOVERDALE ST

Notes:
 - Tax parcels provided by King County Geographic Information Systems Center.
 - Aerial imagery provided by Seattle Public Utilities.

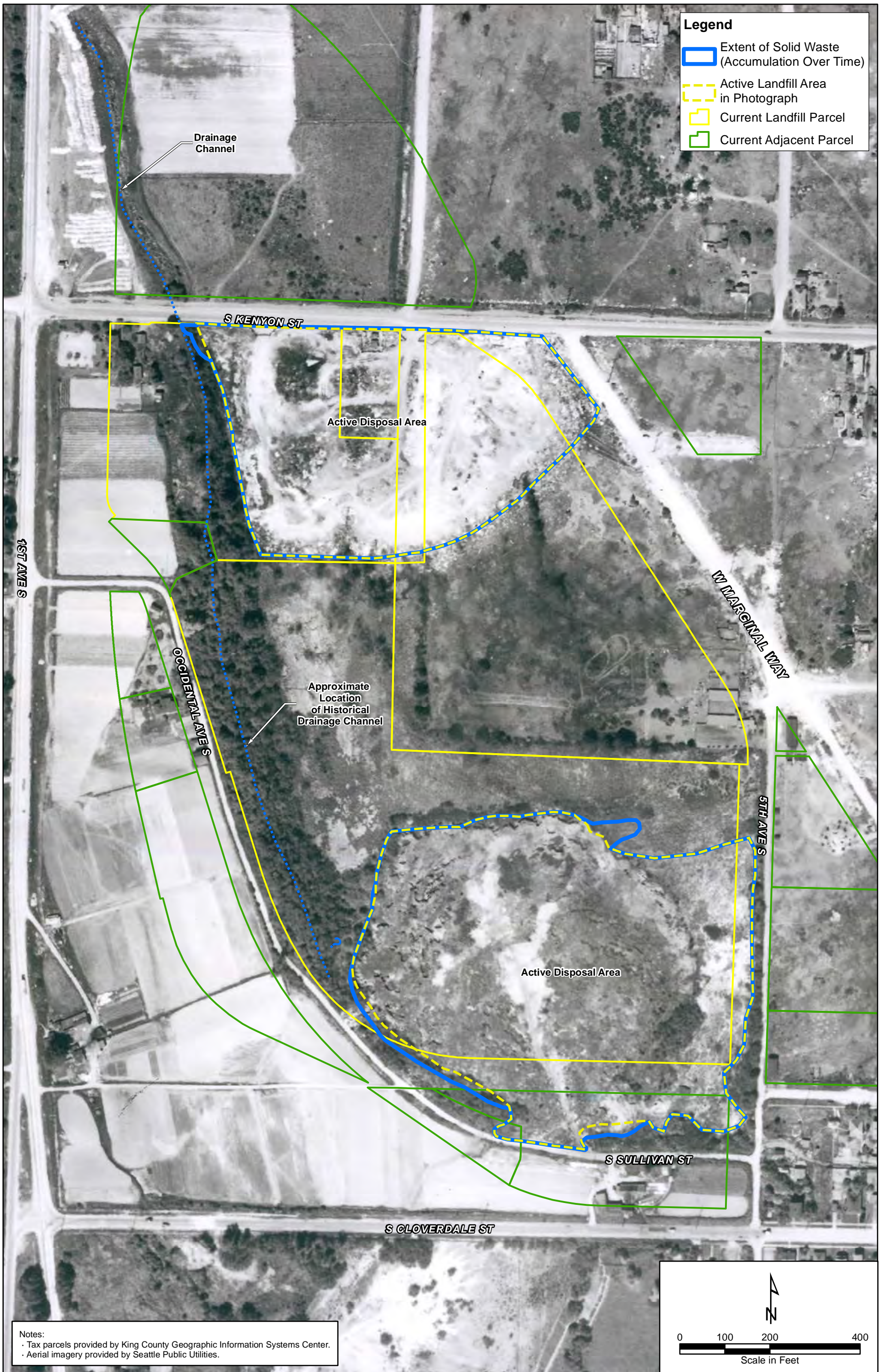


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South Park Landfill
Seattle, Washington

Figure A.2
 Site Aerial Photograph 1941

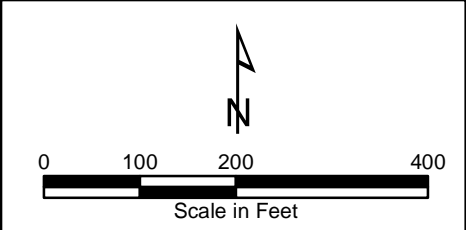


Legend

- Extent of Solid Waste (Accumulation Over Time)
- Active Landfill Area in Photograph
- Current Landfill Parcel
- Current Adjacent Parcel

Notes:

- Tax parcels provided by King County Geographic Information Systems Center.
- Aerial imagery provided by Seattle Public Utilities.



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South Park Landfill
Seattle, Washington

Figure A.3
Site Aerial Photograph 1946

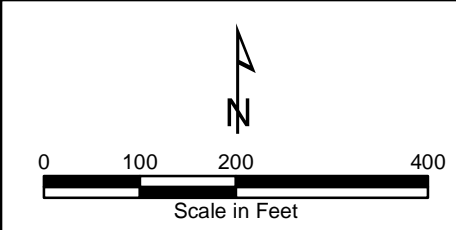


Legend

- Extent of Solid Waste (Accumulation Over Time)
- Active Landfill Area in Photograph
- Current Landfill Parcel
- Current Adjacent Parcel

Notes:

- Tax parcels provided by King County Geographic Information Systems Center.
- Aerial imagery provided by Washington Department of Natural Resources.






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Remedial Investigation/Feasibility Study
South Park Landfill
Seattle, Washington

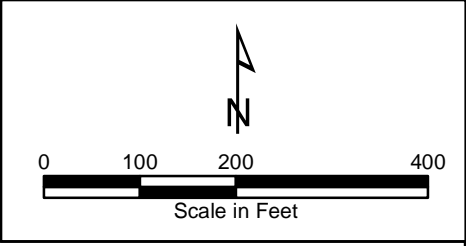
Figure A.4
Site Aerial Photograph 1948

Legend

-  Extent of Solid Waste (Accumulation Over Time)
-  Active Landfill Area in Photograph
-  Auto Wrecking Yard
-  Current Landfill Parcel
-  Current Adjacent Parcel



Notes:
 • Tax parcels provided by King County Geographic Information Systems Center.
 • Aerial imagery provided by Washington Department of Natural Resources.



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Remedial Investigation/Feasibility Study
South Park Landfill
Seattle, Washington

Figure A.5
 Site Aerial Photograph 1951

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 9/28/2017







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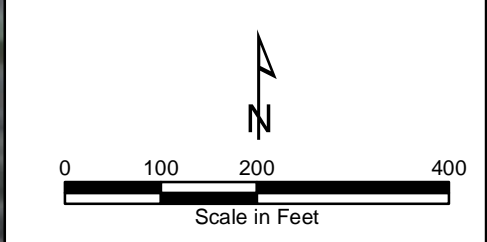
Remedial Investigation/Feasibility Study
South Park Landfill
Seattle, Washington

Legend

-  Extent of Solid Waste (Accumulation Over Time)
-  Active Landfill Area in Photograph
-  Auto-wrecking Yard
-  Gas Station/Pump Island
-  Log Sorting Yard
-  Current Landfill Parcel
-  Current Adjacent Parcel



Notes:
 - Tax parcels provided by King County Geographic Information Systems Center.
 - Aerial imagery provided by Seattle Public Utilities.



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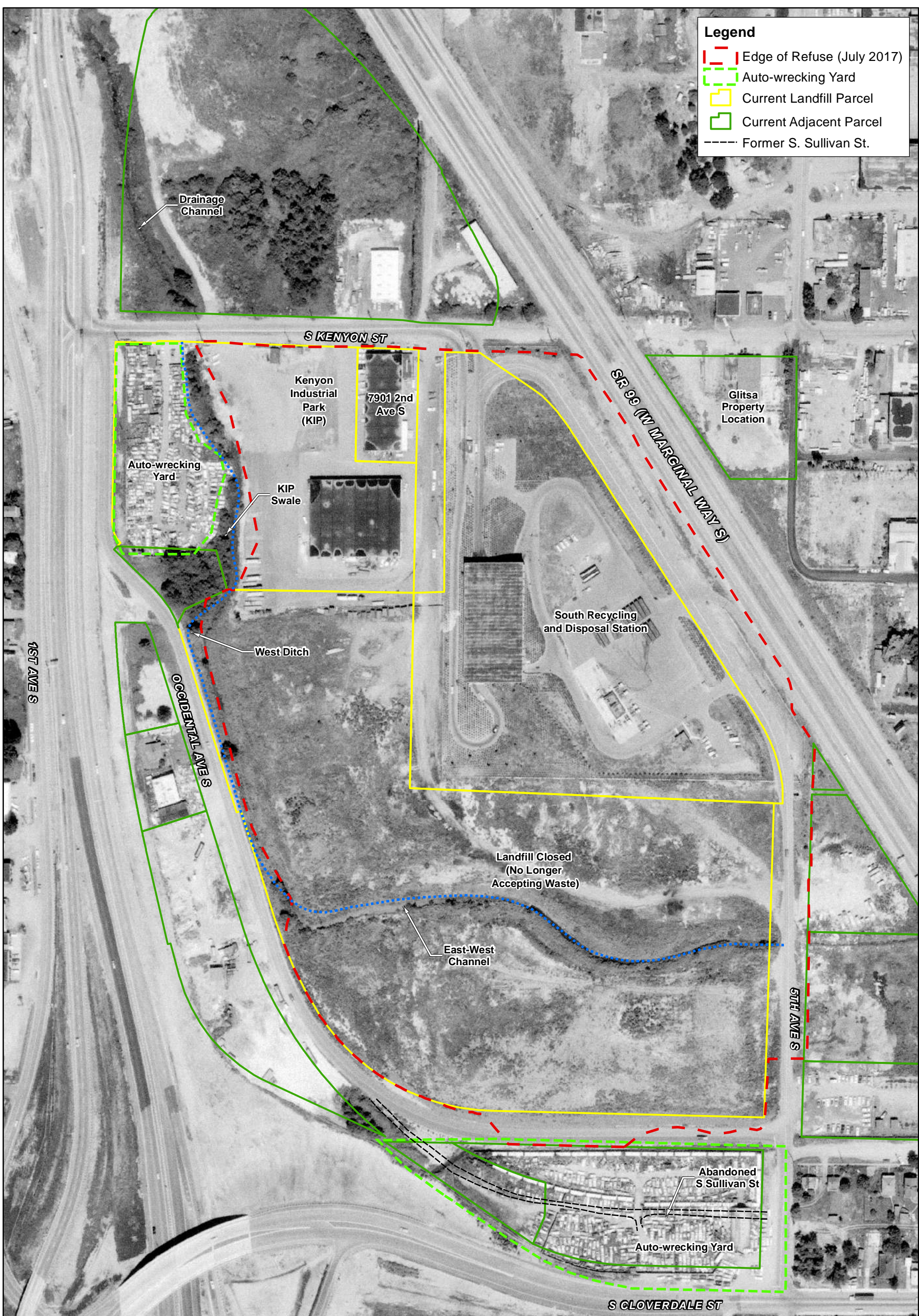
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Remedial Investigation/Feasibility Study
South Park Landfill
Seattle, Washington

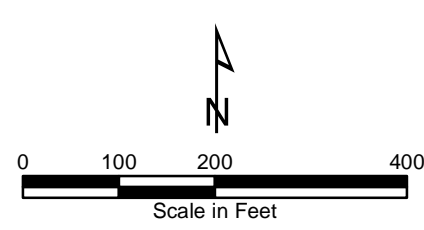
Figure A.9
 Site Aerial Photograph 1963

Legend

- Edge of Refuse (July 2017)
- Auto-wrecking Yard
- Current Landfill Parcel
- Current Adjacent Parcel
- Former S. Sullivan St.



Notes:
 • Tax parcels provided by King County Geographic Information Systems Center.
 • Aerial imagery provided by Seattle Public Utilities.



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Remedial Investigation/Feasibility Study
South Park Landfill
Seattle, Washington

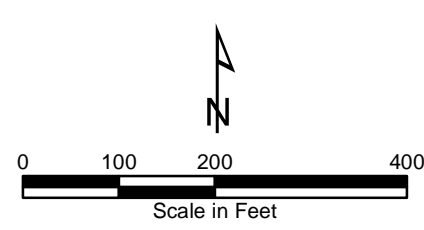
Figure A.10
 Site Aerial Photograph 1967

Legend

- - - Edge of Refuse (July 2017)
- - - Auto-wrecking Yard
- Current Landfill Parcel
- Current Adjacent Parcel



Notes:
 • Tax parcels provided by King County Geographic Information Systems Center.
 • Aerial imagery provided by Seattle Public Utilities.



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Remedial Investigation/Feasibility Study
South Park Landfill
Seattle, Washington

Figure A.11
 Site Aerial Photograph 1969





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Remedial Investigation/Feasibility Study
South Park Landfill
Seattle, Washington

Figure A.13
Site Aerial Photograph 1977

Legend

- - - Edge of Refuse (July 2017)
- - - Auto Wrecking Yard
- - - Filling and Grading
- - - Storage Area
- Current Landfill Parcel
- Current Adjacent Parcel



Notes:
 • Tax parcels provided by King County Geographic Information Systems Center.
 • Aerial imagery provided by Seattle Public Utilities.

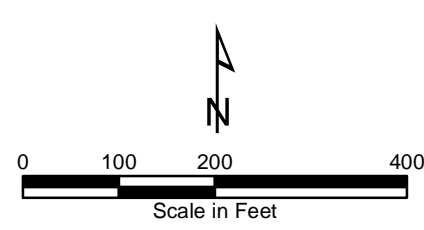


Figure A.14
 Site Aerial Photograph 1980

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 2/14/2018

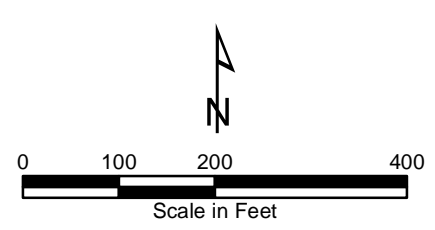


Legend

- Edge of Refuse (July 2017)
- Auto Wrecking Yard
- Storage Area
- Current Landfill Parcel
- Current Adjacent Parcel



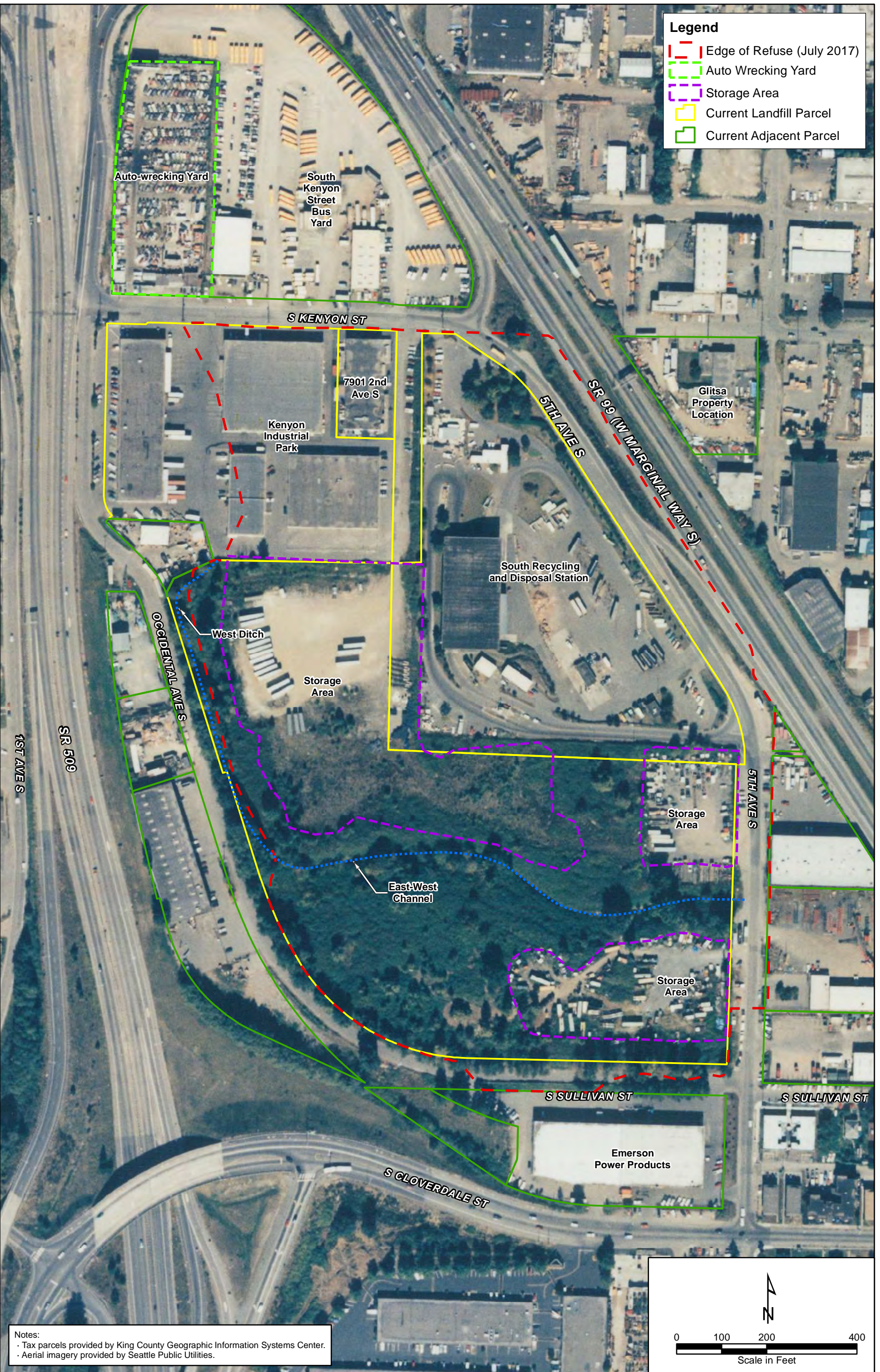
Notes:
 - Tax parcels provided by King County Geographic Information Systems Center.
 - Aerial imagery provided by Seattle Public Utilities.



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 2/14/2018





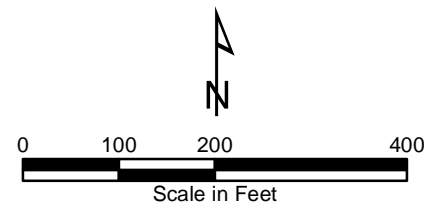


Legend

- Edge of Refuse (July 2017)
- Auto-wrecking Yard
- Storage Area
- Current Landfill Parcel
- Current Adjacent Parcel



Notes:
 • Tax parcels provided by King County Geographic Information Systems Center.
 • Aerial imagery provided by Seattle Public Utilities.



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South Park Landfill
Seattle, Washington

Figure A.20
 Site Aerial Photograph 1997

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 2/14/2018

Legend

- Edge of Refuse (July 2017)
- Auto Wrecking Yard
- Landfill Parcel
- Adjacent Parcel



Notes:
 - Tax parcels provided by King County Geographic Information Systems Center.
 - Aerial imagery provided by Seattle Public Utilities.

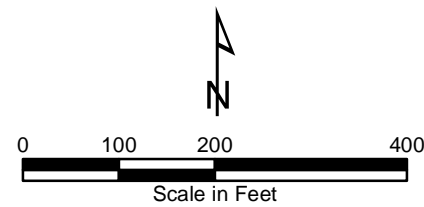
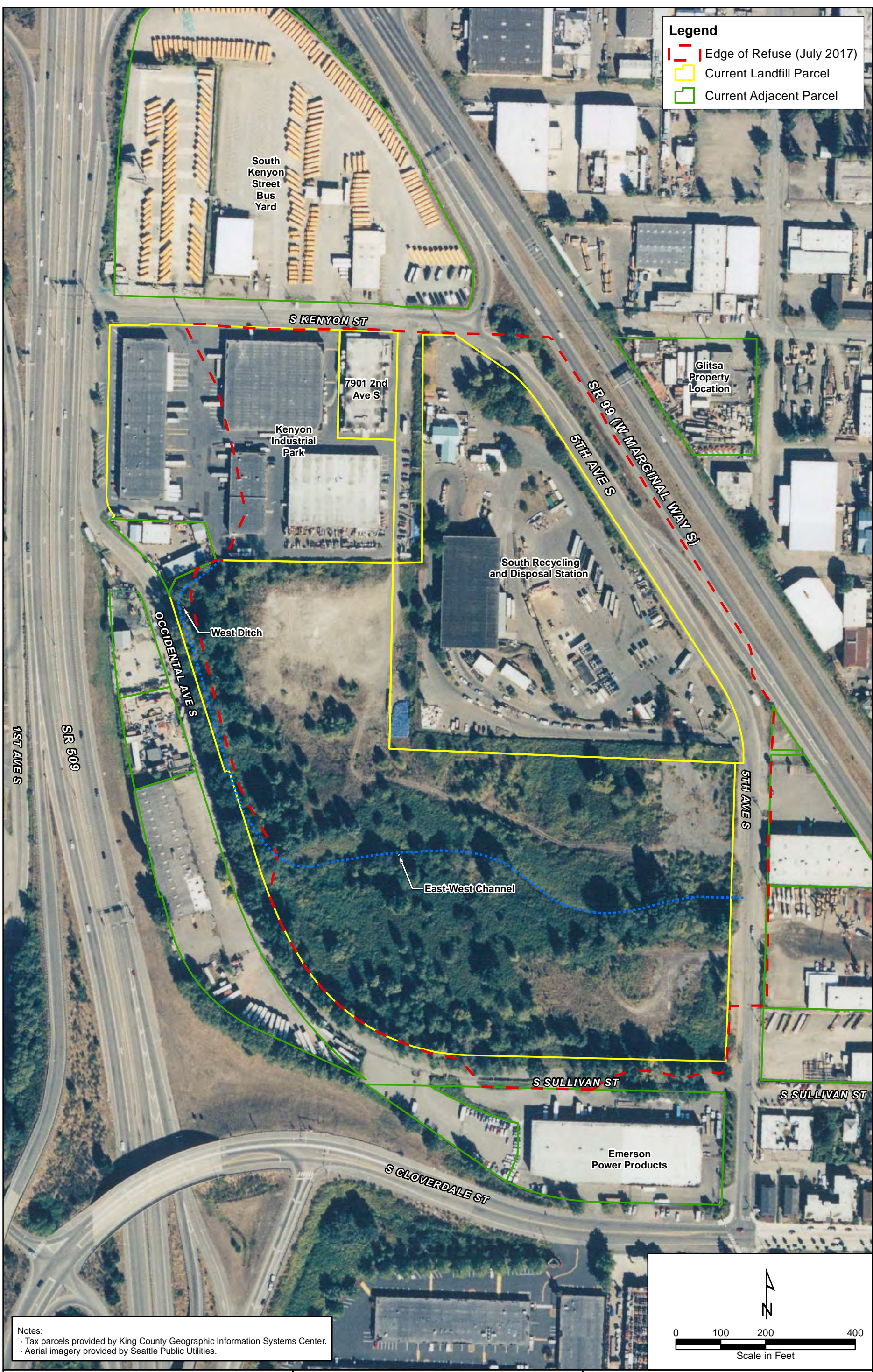


Figure A.21
 Site Aerial Photograph 2000

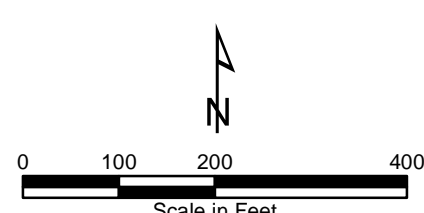
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 2/14/2018

Legend

- - - Edge of Refuse (July 2017)
- Current Landfill Parcel
- Current Adjacent Parcel



Notes:
 - Tax parcels provided by King County Geographic Information Systems Center.
 - Aerial imagery provided by Seattle Public Utilities.



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Remedial Investigation/Feasibility Study
South Park Landfill
Seattle, Washington

Figure A.22
 Site Aerial Photograph 2002



Glitsa Property Questions Memorandum

Memorandum

To: Jerome Cruz, PM, Northwest Regional Office, Washington State Department of Ecology

Copies: South Park Landfill Group: Sheila Strehle (City of Seattle), Joe Hicker (King County), and Rob Howie (South Park Property Development, LLC)

From: Teri A. Floyd, Ph.D. and Gretchen Heavner, Ph.D., Floyd|Snider

Date: November 21, 2014

Project No: COS-SPARK

Re: **Glitsa Property Questions**

INTRODUCTION

This memorandum is in response to your October 28, 2014 email (below) in which you commented on materials that you were reviewing and asked for further information on the Glitsa property:

Hi Teri,

During my review of the draft RI/FS report and older documents, I came across maps which point to the Glitsa property as part of the landfill.

In fact, some of the older landfill boundary maps include this area on the east side of SR99. I have attached a compilation of this information, as well a fairly recent documented discovery of buried drums containing paint waste at the Glitsa property and an aerial taken in 1967 which I am guessing to be buried drums.

Since I was not involved with the site before 2012, could you give me some background or response on the possible extent of the landfill on the Glitsa property and other areas east of SR99? It is important that Ecology understand this as soon as possible, as it has bearing on whether Ecology would still proceed with the consent decree language we discussed in our last meeting.

Thanks, Jerome

We have now gone through our records at Floyd|Snider, Aspect Consulting, the City of Seattle (City), and King County. This memorandum is a concise summary of our findings with attached aerials and other documents to add to the materials you already have.

QUESTIONS AND RESPONSES

Q1: There are maps that “point to the Glitsa property as part of the landfill.” Provide background or response on the possible extent of the landfill on the Glitsa property.

RESPONSE: The Glitsa property is not part of the South Park Landfill as evidenced by analysis of aerial maps, examination of property records, and review of boring logs.

We have investigated the question of whether landfilling related to the South Park Landfill (the Landfill) occurred on the Glitsa property. Our review included the following documentation (materials that were not in the Remedial Investigation/Feasibility Study [RI/FS] are available and can be added to RI/FS appendices if desired):

- Aerial photos
- Ownership records, including information on facility operations
- Geotechnical and monitoring well logs

Information about the Landfill itself is presented in the RI/FS in Section 4.0 and in Appendix A (aerials and property records) and Appendix B (boring logs).

Original AESI Figure

An older Associated Earth Science, Inc. (AESI) report (1998) contains a figure that suggests that the landfill might have extended east of State Route (SR) 99 onto the Glitsa property. The figure legend indicates that the landfill boundary illustrated in the figure is an approximation based on aerial photographs and boring logs, and a related section of the text (Section 1.4.3) states that “[a] small area northeast of the landfill, across West Marginal Way South, appeared to have been used for dumping.” As shown in the AESI figure, the figure author was John Strunk, now of Aspect Consulting. John was interviewed related to the figure, and confirmed that it was part of an early Data Gaps Investigation Work Plan and was based on a conservative review of aerial photos and soil borings in which AESI flagged any area with disturbed soil as a data gap to be filled. Further review was performed between 1998 and the date of submittal of the 2010 RI/FS Work Plan by Farrallon Consulting. With the approval of the RI/FS Work Plan, Ecology accepted the refined landfill boundary shown in the Work Plan. The refined boundary does not extend to the far (east) side of SR 99; therefore, the research compiled between 1998 and 2010 was not included in the RI/FS.

This memorandum includes a concise overview of that research and additional historical information.

Aerial Photographs

The RI/FS contains 20 aerials from 1936 to 2004. We have acquired additional aerials from 1948, 1951, 1953, and 1956. Analysis of the aerials is clearer with the overlay of the individual lots that

comprise today's extent of the Glitsa property. Fourteen aerial photographs from 1946 through 2011 are presented as Figures 1 through 14. A review of the 1953 and 1956 aerials (Figures 4 and 5) indicates that, while there is disturbance of the soil, there is no indication of mounding or depressions awaiting fill. Rather the disturbance looks like unpaved parking and driveways, consistent with the operations listed in the Polk Directories (Attachment A). A review of the 1936, 1941, 1946, 1948, and 1951 aerial photographs indicates that there was no soil disturbance on the Glitsa property prior to 1953, and thus no indication of landfilling during that time.

Property Records

The Glitsa property has historically consisted of Lots 1 through 18 and 56 through 62 of Block 18 (shown on Figures 1 through 14 of this memorandum) and the vacated street end of South Monroe Street between 5th Avenue South and SR 99.

1. Between 1925 and 1948, the lots were unused and sat on the King County Delinquent Tax Rolls.
2. In 1948, the City acquired Lots 12 through 18 and 56 through 62. The City sold the lots to a private owner in 1956; however, by 1953 (when the property is first shown with disturbed soil), the lot is in use as a commercial facility operated by a private party (variously, as Auto Top and Trim Company, M.B. Barker, and Austin's Welding). There is no indication of soil disturbance until the construction of the small building that houses Auto Top and Trim in 1953. High-quality photographs of the business show the soil disturbance to correspond to unpaved parking and driveways (Figures 4 and 5 and the property record in Attachment A).
3. In 1951, Lots 1 through 11 were sold to a private party, which would become Farwest Paint Manufacturing Company (Farwest Paint) by 1959. They continue to operate there until 1977 when they move to a larger facility.

In summary, the Glitsa property has been in private hands since the 1950s. The only aerials with visible soil disturbance clearly show this disturbance to be consistent with the construction and operation of a small private facility (Auto Top and Trim) beginning in 1953.

Table 1 shows the property ownership for lots, and references from the Polk Directories are listed in Attachment A.

Boring Logs

There are no monitoring wells located on Lots 12 through 18 and Lots 56 through 62 at the Glitsa property. The only boring logs referenced that were present within or near the Glitsa property are shown on Figure 3-1 of the AESI (1998) report. These were WSDOT boring logs 63, 64, 65, 66, H-49, and H-50 (refer to Attachment B). The only material identified that was not native soil or soil fill was found in boring 65 and consisted of "Fill – Concrete Chunks" from 2.0 to 4.5 feet below ground surface. The soil borings for MW-30 and MW-31 (located next to the Glitsa property in the S Kenyon Street ROW) also indicate that waste was not found; the boring logs (present in the

RI) indicate native soil and soil fill. The Renton Effluent Transfer System (RETS) boring logs on the other side (the landfill side) of SR 99 do indicate the presence of waste (glass, brick, and wire are typical) at the Landfill.

In summary, wastes indicative of landfill activity were not identified in the soil borings and monitoring well logs on or near the Glitsa property.

Q2: There is a “recent documented discovery of buried drums containing paint waste at the Glitsa property” and an aerial taken in 1967 which might show buried drums.

RESPONSE: The buried paint waste drums are present in the areas of the Glitsa property where the Farwest Paint Manufacturing Company operated from 1959 to 1977.

A review of aerials and Glitsa site history does not indicate a connection between the paint waste drums and the Landfill. Rather, the current property owner, the Tenor Company LLC, posits that the wastes are related to Farwest Paint, who occupied the site from 1959 to 1977, at which time they moved to larger facilities in Tukwila (Tenor 2014). Aerials (Figures 1 through 14) show that the area of buried paint wastes are within the area owned and operated by Farwest Paint.

You also commented that a feature on the 1967 aerial photo might be buried drums. We added a to-scale 55-gallon drum to the legend of the 1967 photo. Note that the drum is much smaller than the hummocky structure. We believe, after reviewing the aerials, that the hummocky pattern in the 1967 photo is simply vegetation (large shrubs).

Q3: In a conversation held after we received your email, you proposed that the South Park Landfill PLP Group test MW-30 and MW-31 for Stoddard solvents and that, if found, this would be “proof” of contamination from Glitsa in these wells.

RESPONSE: The PLP Group believes that Stoddard solvent is unrelated to the trichloroethene (TCE), dichloroethene (DCE), and vinyl chloride (VC) found in MW-30 and MW-31 and sampling for it would, therefore, not be informative.

It is unlikely that the Farwest Paint wastes and/or the Stoddard solvents¹ cleanups that have been performed on the Glitsa property are directly related to the VC in MW-30 and MW-31. As discussed in Section 5.7.2 of the RI/FS, the presence of TCE, DCE, and VC in Lots 1 through 11 indicates that TCE was used on-site. TCE and DCE were found in MW-6, a shallow perched zone well on Lot 11. Because there is no route from the Landfill to the perched zone at MW-6, the presence of the solvent here is clear indication of use on the Farwest Paint/Glitsa lots. DCE and VC are also present in LAR2 (Lot 5), which appears to be downgradient of MW-6.

¹Stoddard solvents is a petroleum-based solvent that does not generally contain chlorinated solvents. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH) measurements are the standard analytical tests for tracking stoddard solvents; therefore, chlorinated solvents such as TCE, DCE, and VC may not have been analyzed for.

The specific location of the buried paint wastes and Stoddard solvents release are too far downgradient to be the direct source of contamination to MW-30/MW-31. The TCE and DCE contamination at MW-6 is much closer to this location.

In summary, the available information supports Tenor's belief that the Stoddard solvents release and the buried paint wastes are a remnant of operations by Farwest Paint and Glitsa. We do not find any association with the Landfill.

Q4: Provide background or response on the possible extent of the landfill on "other areas east of SR99." These were marked in red on the attachments to your email.

RESPONSE: The area shown in Figure B-3 from the AESI report and labeled as City Landfill 1943–1955, and mentioned in the highlighted text from the AESI Data Gaps Report, is simply a mistake, and is not a City landfill.

AESI incorrectly located a Polk Directory reference at 200 S Kenyon Street on the wrong corner. 200 S South Kenyon Street is west (not east) of SR 99 (West Marginal Way). During 1943 to 1955, the property labeled as City Landfill on the AESI figure is a private residence. The actual location of 200 S Kenyon Street in the Polk Directory from that time period is also a bit confusing as it appears to be on the north side of S Kenyon Street. It is actually located on the southwest corner of S Kenyon Street and West Marginal Way (as shown in photographs of that time period) and is the entrance into the Landfill (and included in the extent of Landfill in the RI/FS).

CONCLUSION

The foregoing discussion addresses your questions regarding the Landfill boundary. The information above does not indicate a need to alter the extent of refuse boundary as shown in the RI/FS. If desired, the PLP Group can add the additional aerials, property records, and soil boring logs to the appendices of the RI/FS when it is finalized.

REFERENCES

Associated Earth Sciences, Inc. (AESI). 1998. *South Park Custodial Landfill Environmental Site Investigation Data Gaps Memorandum*. Prepared by AESI for King County. Bainbridge Island, Washington. 27 July.

Tenor Company LLC (Tenor). 2014. Letter to Donna Musa, Washington State Department of Ecology, from Duane Bartel, Tenor Company LLC re: Site Hazard Assessment—Glitsa American Inc. 15 August.

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LIST OF ATTACHMENTS

Attachment A Property Record

Attachment B Boring Logs

Table

Table 1
Ownership History

Date	Current Parcels	Owner
12/12/1916	Lots 1 to 33 and 38 to 62, Block 18, First Addition to River Park	F. W. and Jennie S. Baker
1/20/1925	Lots 1 to 62, Block 18, First Addition to River Park	King County Delinquent Tax Rolls
1/19/1948	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	City of Seattle
4/16/1951	Lots 1 to 11, Block 18, First Addition to River Park	Russell Rathbone, Jr.
4/30/1951	Lots 1 to 11, Block 18, First Addition to River Park	A.F. Sulak
5/7/1956	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	Malcolm B. Barker
3/26/1957	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	Paul D. and Helen E. Coles
11/29/1958	Lots 1 to 3, Block 18, First Addition to River Park	Fred D. McKenzie and Charles R. Terhune
11/29/1958	Lots 4 to 8, Block 18, First Addition to River Park	Far West Land Corporation
11/29/1958	Lots 9 to 11, Block 18, First Addition to River Park	Fred D. McKenzie
9/15/1965	Lots 1 to 3, Block 18, First Addition to River Park	Fred D. McKenzie
6/9/1966	Lots 4 to 8, Block 18, First Addition to River Park	Fred D. McKenzie
9/22/1969	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	Glenn Van Dyke
10/1/1984	Lots 1 to 11, Block 18, First Addition to River Park	Edgar J. and Maude B. Hodgson
11/5/1984	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	Jon and Joanne Van Dyke
5/1/1986	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	Diamonds & Rust Equipment, Inc.
11/5/1986	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	Edgar J. and Maude B. Hodgson
12/27/1990	Lots 1 to 11, Block 18, First Addition to River Park	Holly Bartel and Skye Bartel Trust
1/30/1992	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	Holly Bartel and Skye Bartel Trust
2/20/2002	Lots 1 to 11, Block 18, First Addition to River Park	Hodgson-Glitsa Real Estate Limited Partnership
2/20/2002	Lots 12 to 18 and 56 to 62, Block 18, First Addition to River Park	Hodgson-Glitsa Real Estate Limited Partnership
9/26/2003	Lots 1 to 16 and 57 to 62, Block 18, First Addition to River Park	Tenor Company LLC

Figures



Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010
(Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints Parcel with Lots

CSID 9951 Features (page 136)

- Release Area (from UST)
- Structure
- Tank (UST)
- Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
- Aerial photo from 1946.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

Figure 1
Glitsa and Farwest Paint Parcel—1946

327 S. Kenyon St
Seattle, Washington

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Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010
(Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints
Parcel with Lots

CSID 9951 Features (page 136)

- Release Area (from UST)
- Structure
- Tank (UST)
- Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
- Aerial Photo from 1948.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

Figure 2
Glitsa and Farwest Paint Parcel—1948

327 S. Kenyon St
Seattle, Washington

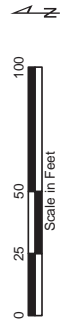
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Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010
(Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints
Parcel with Lots
- CSID 9951 Features (page 136)**
- Release Area (from UST)
- Structure
- Tank (UST)
- Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:
 - CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
 - Orthophoto from 1951.

Abbreviations:
 CSID = Contaminated Site ID
 UST = Underground storage tank





Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010 (Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints Parcel with Lots

CSID 9951 Features (page 136)

- Release Area (from UST)
- Structure
- Tank (UST)
- ▨ Paint Wastes, Including Crushed Drums
- ▨ Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
- Aerial photo from 1953.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

North Arrow

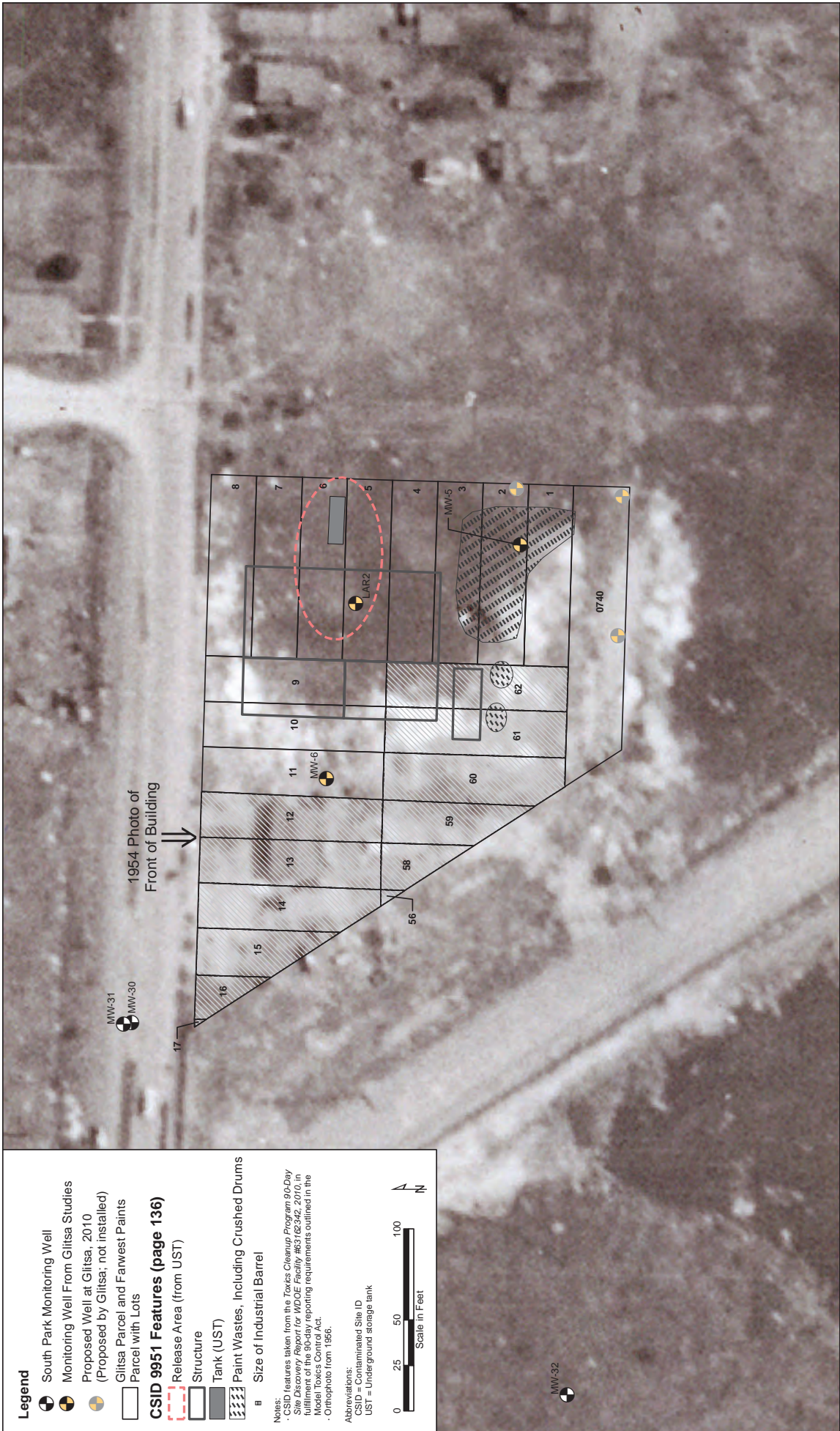


Figure 5
Glitsa and Farwest Paint Parcel—1956

327 S. Kenyon St
Seattle, Washington

TGIS\Projects\COS-SPARK\MXD\Glitsa Issue\Figure 5 Glitsa and Far West Paint Parcel 1956.mxd
11/18/2014



Legend

- South Park Monitoring Well
- Monitoring Well From Glista Studies
- Proposed Well at Glista, 2010
(Proposed by Glista; not installed)
- Glista Parcel and Farwest Paints
Parcel with Lots
- CSID 9951 Features (page 136)**
- - - Release Area (from UST)
- Structure
- Tank (UST)
- ▨ Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:
 - CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
 - Aerial photograph from 1960.

Abbreviations:
 CSID = Contaminated Site ID
 UST = Underground storage tank





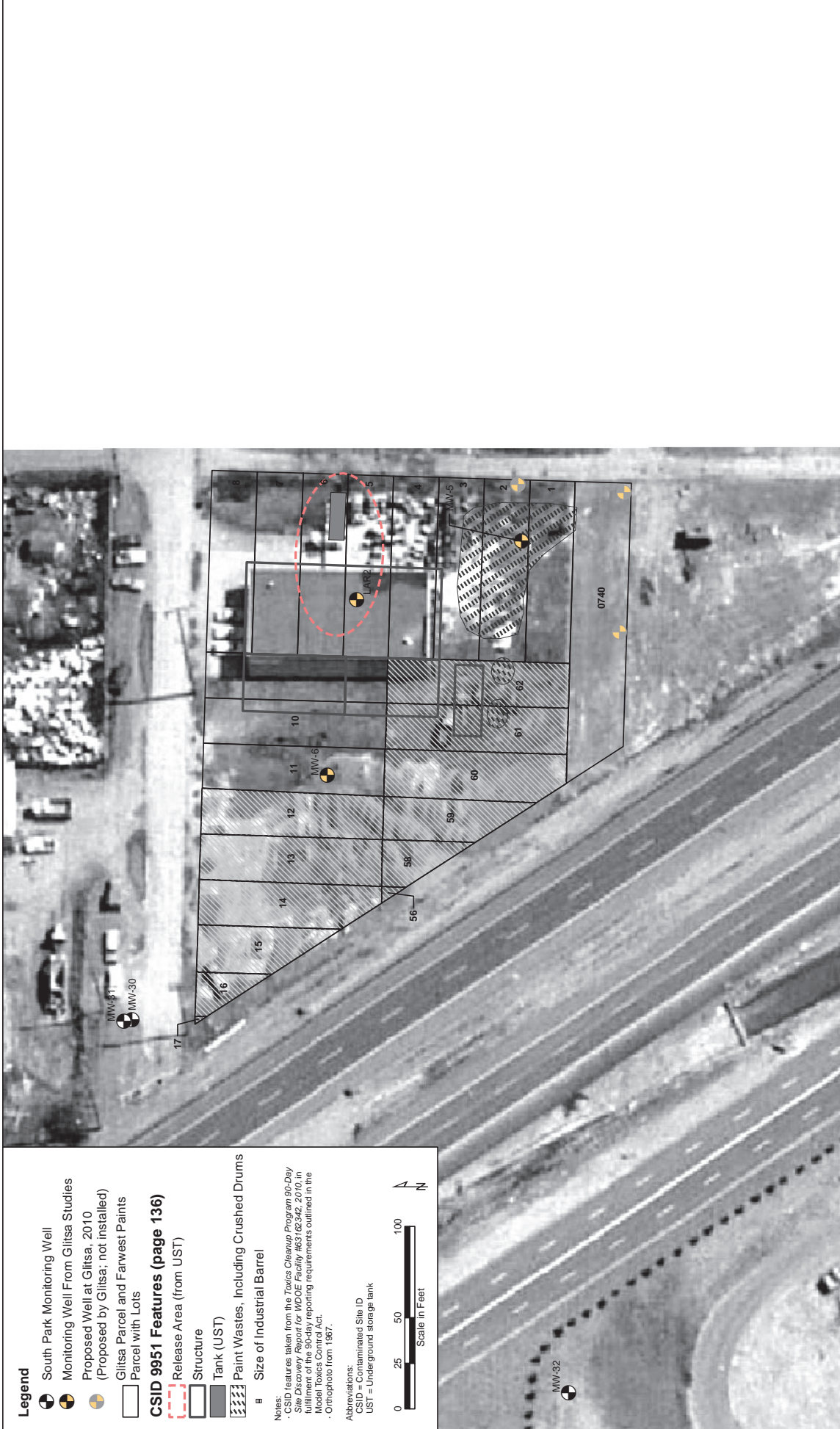
Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010
(Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints
Parcel with Lots
- CSID 9951 Features (page 136)**
- ▭ Release Area (from UST)
- ▭ Structure
- ▭ Tank (UST)
- ▨ Paint Wastes, Including Crushed Drums
- ▨ Size of Industrial Barrel

Notes:
 - CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 (62342, 2010)*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
 - Aerial photograph from 1963.

Abbreviations:
 CSID = Contaminated Site ID
 UST = Underground storage tank





Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010 (Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints Parcel with Lots

CSID 9951 Features (page 136)

- Release Area (from UST)
- Structure
- Tank (UST)
- Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the federal Toxics Cleanup Act.
- Aerial photo from 1967.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

North Arrow

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**327 S. Kenyon St
Seattle, Washington**

**Figure 8
Glitsa and Farwest Paint Parcel—1967**



Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010
(Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints
- Parcel with Lots

CSID 9951 Features (page 136)

- Release Area (from UST)
- Structure
- Tank (UST)
- Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the *Model Toxics Control Act*.
- Aerial Photo from 1974.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

North Arrow



Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010 (Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints Parcel with Lots
- CSID 9951 Features (page 136)**
- ▭ Release Area (from UST)
- ▭ Structure
- ▭ Tank (UST)
- ▨ Paint Wastes, Including Crushed Drums
- ▨ Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
- Aerial Photo from 1977.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

▲ N



Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010
(Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints
Parcel with Lots
- CSID 9951 Features (page 136)**
- ▭ Release Area (from UST)
- ▭ Structure
- ▭ Tank (UST)
- ▨ Paint Wastes, Including Crushed Drums
- ▨ Size of Industrial Barrel

Notes:
 - CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the federal Toxics Control Act.
 - Aerial photograph from 1980.

Abbreviations:
 CSID = Contaminated Site ID
 UST = Underground storage tank





Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010
(Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints
Parcel with Lots

CSID 9951 Features (page 136)

- Release Area (from UST)
- Structure
- Tank (UST)
- Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
- Orthophoto from 1992.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

North Arrow



Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010
(Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints
- Parcel with Lots

CSID 9951 Features (page 136)

- Release Area (from UST)
- Structure
- Tank (UST)
- Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
- Orthophoto from 2004.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

North Arrow

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**327 S. Kenyon St
Seattle, Washington**

**Figure 13
Glitsa and Farwest Paint Parcel—2004**



Legend

- South Park Monitoring Well
- Monitoring Well From Glitsa Studies
- Proposed Well at Glitsa, 2010 (Proposed by Glitsa; not installed)
- Glitsa Parcel and Farwest Paints Parcel with Lots

CSID 9951 Features (page 136)

- Release Area (from UST)
- Structure
- Tank (UST)
- Paint Wastes, Including Crushed Drums
- Size of Industrial Barrel

Notes:

- CSID features taken from the *Toxics Cleanup Program 90-Day Site Discovery Report for WDOE Facility #63 02342, 2010*, in fulfillment of the 90-day reporting requirements outlined in the Model Toxics Control Act.
- Orthophoto from Esri, 2011.

Abbreviations:

- CSID = Contaminated Site ID
- UST = Underground storage tank

0 25 50 100
Scale in Feet

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**327 S. Kenyon St
Seattle, Washington**

Figure 14
Glitsa and Farwest Paint Parcel—2011

**Attachment A
Property Record**

POLIO

3668

ADDITION 1st add to River Park
Section 32 Top 24 Range 4 Eros Block 1 E Tracer Lot 12-18

Sub 12 To 18 inch pipe
LESS W MARG WAY
Lot 50 - 62 inch 1/2 dia
at W Marginal Hwy

PERMIT No.
420-289

DATE
4-53 257- Kernyon St

Home St Hwy

Fee Owner
Condition of Exterior Interior Foundation

USE
1 No. Stories
1 No. Ware
1 No. Basins
Treatment
1 No. Offices
No. Apartments
1 2m 2m 5m
4m 5m 5m

ROOF CONSTRUCTION
Frame Lam
Mill Construction
Bals. Concrete
No. Trusses
Wood Good

FLOOR FINISHERS
Fir Maple
Oak 2" x 4" TAG
Lino 1" x 6" TAG
Carroll
Terrazo
Kaoolith
Till

Baths
No. Fl. Walls
No. Fl. Floors
No. Fl. Walls
No. Fl. Dr. Bldg
No. Fl. Floors
No. Fl. Walls
No. Fl. Dr. Bldg
No. Fl. Walls

2 No. Fixtures
1 Toilet
Tubs, Log or Pan
1 Basin, Bat
Sinks
1 Dish
Showers (Tub) (Stall)
Laundry Trays
H.W. Tank Fl. Drain
Sewer Sys. No. Tds

TYPE OF CONSTRUCTION
1 Frame
1 Single Double
Ordinary Masonry
Mill Construction
Class A Rein. Con.
Str. Steel and Con.
Tilt Slab
Con. Rein. Con.

Roofing Material
Tar and Gravel
Date Built 1953
Erective Age
Dep. for Clad
Dep. for Ch.
Dep. for Is.
Total 50 ft



HEATING
Boiler
Typical Furnace
Gravity H. A.
Air Cond. Fan
Aerosols
1-Pipe Radiator
2-Pipe St. or Vapor
Hot Water
Oil Burner
Coal Bunker

FOUNDATION
Mud Sills
Pier and Post
Brick
Concrete
Pile

BASMENT
Full
Sub-Basement
Size
Garage
Floors
Plastered
Living Room
Service Rooms

Value
Main Building
Other Buildings
Total 1967-250-9065
Assessed Value 30%
Exp. Building 1.5
Total

WINDING
Knee & Tube
Flat Cable
Conduit
Veeve Wiring
Stange Wiring
No. Outside

ELEVATORS
Pass
Auto
Min.
Freight
Elev.
Hyp.
Man

EXTERIOR WALL CONSTR.
Single Double
1" x 4" Stud Walls
2" x 4" Stud Walls
Brick Walls
Brick With Pilasters
Concrete Walls
Con. With Pilasters
Tilt Walls
Rein. Con. Wall
Pillar Walls
Laminated Walls

INTERIOR WALLS
Stucco and Plaster
Lam. Plastered
Fly Wood
Cork
Plaster Board
Painted
Stucco Veneer
Kalamazoo
Waterproofed
Unfinished

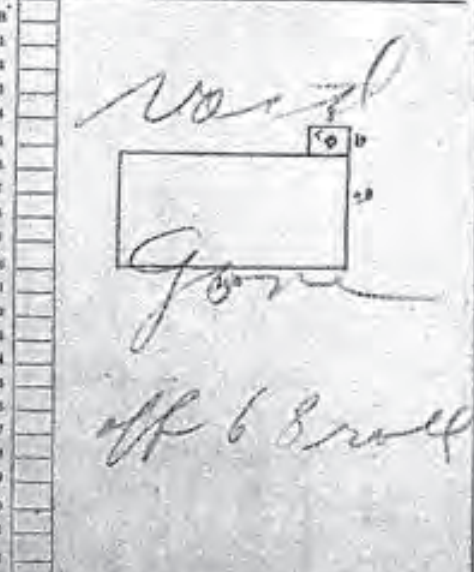
GAS STATIONS
Frame
Metal
Masonry
Plastered or Ceilid
Floors
SERVICE BUILDING
Frame
Metal
Masonry
Plastered or Ceilid
Floors

C. H. GROUND FLOOR AREA 845
TOTAL FLOOR AREA

EXTERIOR FINISHING
Siding Shingles
Shaker Stone
Brick Veneer
Cedar Siding
Stone Cast S.
Terra Cotta
Stucco Glass
Terra

INTERIOR TRIM
Fir
Mah. Oak
Metal
Doors
Windows
Stained
Varnished
Painted
Unfinished

TANKS, ETC., LIST
Kettle Elev. Hyd.
DOCKS AND PIERS
Treated Pile and Timbers
Untreated
Treated Pile only
Average Length
Perod



FLOOR CONSTRUCTION
Joint Con. Slab
O. C. Slab
Mill Construction
Sals. Con.

Table with columns: Other Buildings, Construction, Floor, Roof, Stories, Dimensions, S.F. Area, Factor, Value, % Dep., Deprec., Net Value.

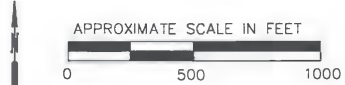
Polk Directory References for 257 S. Kenyon Street from 1953 through 1967:

- 1953 – Barker M B
- 1954 – Auto Top & Trim Co.
- 1956 – Vacant
- 1958 – Austin’s Wldg
- 1959 – Austin’s Wldg
- 1960 – Austin’s Wldg
- 1961-62 – Austin’s Wldg
- 1963 – Vacant
- 1964 – Vacant
- 1965 – Vacant
- 1966 – Farwest Wrecking Co Lot 2 (this is next door to Farwest Paint Manufacturing located on Lots 1-11 of Block 18 with an address of 327 Kenyon)
- 1967 – Farwest Wrecking Co Lot 2


Attachment B
Boring Logs



- - - - - Approximate Limit of Refuse
 _____ King County Landfill Boundary
 (24) WSDOT Geotechnical Boring Location



Reference: Aerial Photograph - 1990


**ASSOCIATED
EARTH
SCIENCES, INC**
 179 Modrow Lane North
 Shoreline, WA 98130
 TEL: (206) 790-8370
 FAX: (206) 790-8436
 811 3rd Avenue, Suite 100
 Spokane, WA 99203
 TEL: (509) 837-7700
 FAX: (509) 837-5424

DATE: 07/28/98
 DESIGNED/DWR: JJS/PSB

WSDOT Geotechnical Borings - SR 509 & SR 99
 South Park Custodial Landfill
 King County, Washington

PROJECT NO. VB9741
 FIGURE NO. 3-1

JOB NO. L-7425 HWY. NO. 99 SHEET 1 OF 1
 SECTION S124th St to Holden St.
 STA. 707+75 OFFSET 45.0' RT ELEV. +1.5'
 EQUIPMENT Hand tools DATE 4-20-82
 INSPECTOR H.C. HOLE NO. H-50

DEPTH FEET	BLows PER FOOT	PROFILE	TUBE SAMPLE NO	DESCRIPTION OF MATERIAL
0				4 times = 1.0' Fill
0.5		X		ACP (core #23)
0.7		X		etc
0.8		X		Similar to SS #2
1.0		X		brown moist med dense sl silty sandy fine to coarse GRAVEL Similar to SS #1
1.8		X		grey moist med dense sl gravelly silty fine to medium SAND
				No free water
				End of Boring - 1.8'

JOB NO. L-7425 HWY. NO. 99 SHEET 1 OF 1
 SECTION S124th St to Holden St.
 STA. 701+90 OFFSET 53.0' RT ELEV.
 EQUIPMENT Hand tools DATE 9-20-82
 INSPECTOR H.C. HOLE NO. H-49

DEPTH FEET	BLows PER FOOT	PROFILE	TUBE SAMPLE NO	DESCRIPTION OF MATERIAL
0				4 lines = 1.0' in Snapper Fill
0.2		X		ACP
0.5		X		etc Similar to SS #2
2.0		X		grey moist med dense sl gravelly silty fine to medium SAND
2.5		X		mottled moist med stiff gravelly sandy SILT
				No free water
				End of Boring - 2.5'

SR 99
1770



62
63
64
66
700
710
714
72 A
72 B

Hole #63
DPT 50 FT

0.0
-2.5
-4.8

Silty Sandy
Gravel (Fill)
Silty Clay
(Hard - Fill)

W.T. -5.5 6-9-54

Black Clean
Fine Sand
(Fill)

Frag Silty Sand
(Gravelly)
Black Clean
Fine Sand

Shuffling

Hole #64
DPT 25 FT

0.0

Gravelly Silty
Clay (Fill - Blend)

W.T. -6.5 6-9-54

Black Clean
Medium Sand

Silty Clay
Black Fairly Clean
Medium Sand

Shuffling

Hole #65
DPT 25 FT

0.0

Silty Sand (Fill)
Gravelly (Blend)
From -2.0 to -4.5

W.T. -6.5 6-9-54

Black Clean
Fine Sand

Soft Fibrous Peat
Gray Fairly
Clean, Bound
Medium Sand

Shuffling

Hole #66

0.0

Clean Medium
Sand (Fill)

W.T. -4.4 6-9-54
(Early Well
Compacted)

Shuffling

700

72 A

72 B

Historical RETS Borings

Legend

- Approximate Landfill Boundary (as shown in Work Plan)
- Monitoring Well: Lower Zone
- Monitoring Well: Upper Zone
- Decommissioned Monitoring Well
- Piezometer
- Decommissioned Piezometer
- Reconnaissance Groundwater Probe
- Gas Probe
- Reconnaissance Gas Probe
- Geotech Boring
- Soil Boring
- Surface Soil Sample Location
- Test Pit
- Surface Water Sample
- Deposited Soil Sample Location
- Tax Parcel

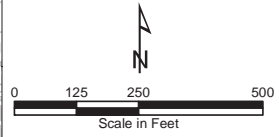
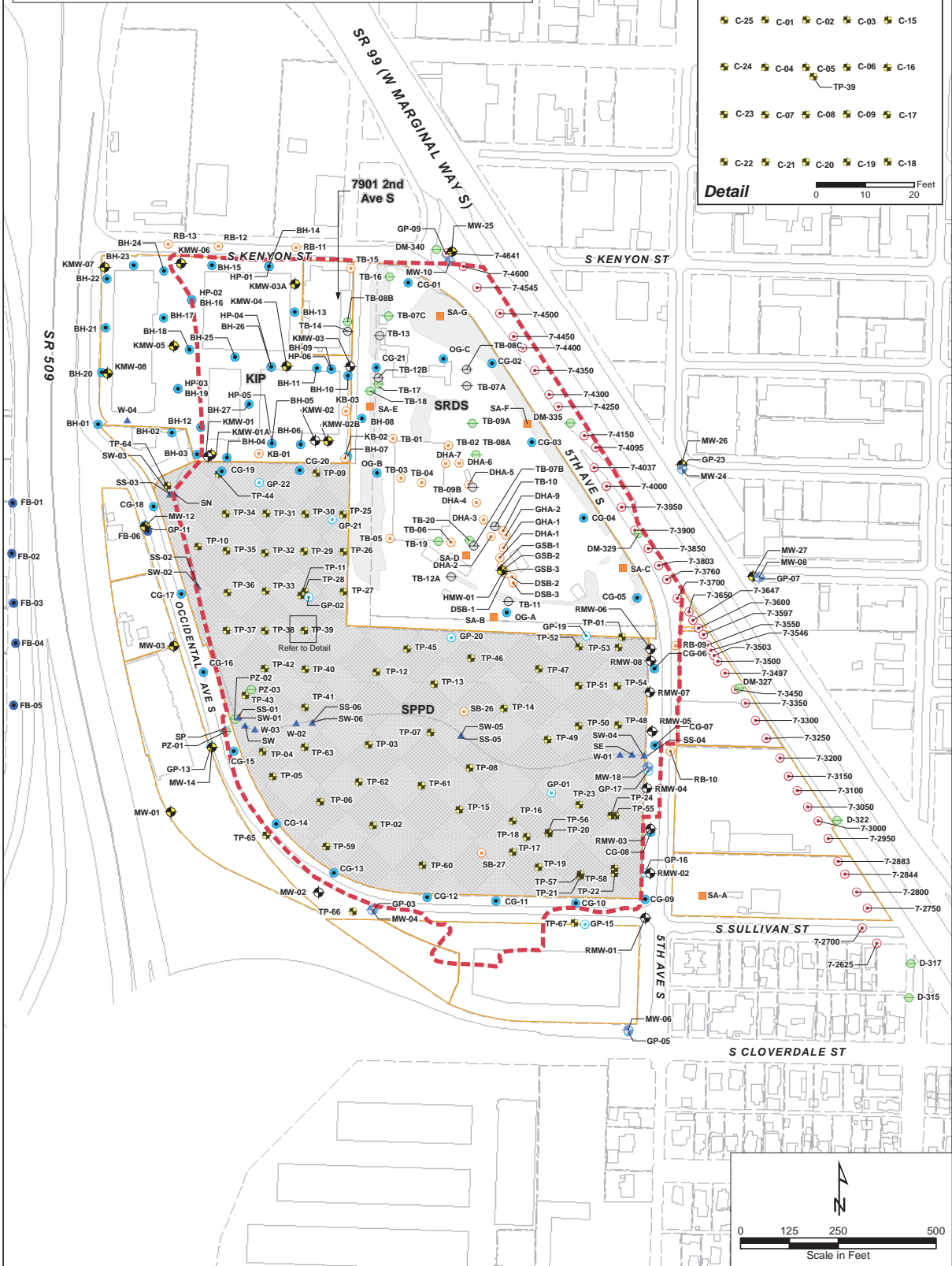
Notes:

- Tax parcels provided by King County Geographic Information Systems Center.
- A table summarizing the investigations in which the explorations were completed is provided in Appendix B.
- A description of the previous investigations is provided in Section 2.5 and summarized in Table 2.5.

Abbreviations:

- KIP - Kenyon Industrial Park
- SPPD - South Park Property Development
- SRDS - South Recycling and Disposal Station

Detail



HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4000
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		10'	14.5'
TIME		1307	1356
DATE		2-11-86	2-11-86
START TIME		1140	
FINISH TIME		1400	
START DATE		2-11-86	
FINISH DATE		2-11-86	

SURFACE					ELEVATION		CASING DEPTH		START DATE		FINISH DATE	
					16'				2-11-86		2-11-86	
SURFACE CONDITION					GRASS COVER							
HNU BACKGROUND					"B"							
CLASSIFICATION					DESCRIPTION							
FILL					SILTY SAND - brown, fine to medium; little fine to coarse gravel							
1					SAND AND GRAVEL - brown, iron staining, medium to coarse; gravel fine to coarse; glass and other debris 1305							
2					INTERBEDDED SAND AND SILT - brown and gray, fine to medium; wood debris, plastic debris 1310							
3					SAND AND DEBRIS - black, fine to medium; paper; wire debris 1343							
4					SAND - black, fine to medium; some silt; last 6 in. of sample wood fibre, straw, concrete debris 1400							
5					INTERBEDDED SAND AND SILT - dark gray to dark brown, fine to medium; poorly laminated; moist; wire in tip, fibrous debris at top 1415							
END OF HOLE					bubbling sound from hole, methane reading off 4% scale, variable, 20% ± at base of hole. Pulled out of hole, hole sloughed to 10', bentonite seal 9.0 - 10.0', used one full bucket, backfilled hole with cuttings, bentonite to surface							

DRILLING CONTRACTOR: SUBTERRANEAN
 DRILLER: CW
 BY: SHE
 DATE: 2-11-86
 CHKD BY: SH

HONG CONSULTING ENGINEERS, INC.

Sheet 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4037
LOCATION SKETCH 	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 150 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		11'	16'
TIME		1520	1540
DATE		2-11-86	2-11-86
ELEVATION		16'	
CASING DEPTH		2-11-86 2-11-86	

DRILLING CONTRACTOR - SUBTERRANEAN
 DRILLER C. W.

BY SHE 2-11-86
 CHECKED BY SH

DEPTH	SURFACE					ELEVATION	16'		CASING DEPTH	START TIME	FINISH TIME
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES CORRECTED	FIN ₆₀	DEPTH IN FEET	PETROLEUM	DRIVING LOG	TIME	DATE	
						0		SURFACE CONDITION GRASS COVER HNU BACKGROUND < 1.0			
								CLASSIFICATION FILL			
								DESCRIPTION SAND - brown, fine to coarse; some gravel; fine to coarse; debris			
1	SPT	2.5	10	18	1			SAND - brown, medium to coarse; some gravel, fine to coarse; concrete at tip brick and other debris	1455		
2	SPT	5.0	16	18	1	5		SAND - brown, medium to coarse; trace gravel, fine; trace silt; brick fragments and other debris	1500		
3	SPT	7.5	10	7	2			SAND AND GRAVEL - brown, fine to coarse; brick and shell fragments; other debris			
								shoerefusal at 8.0 feet, auger drilled beyond	1505		
4	SPT	10.0	4	18	2	10		SAND AND GRAVEL - dark brown, medium to coarse; wood debris	1525		
5	SPT	12.5	3	18	10			INTERBEDDED SAND AND SILTY SAND - dark gray, fine to coarse; fine beds; poorly laminated; trace fine gravel	1530		
6	SPT	15.0	5	18	3	15		SILT - light brown and gray beds; some fine sand at top; poorly laminated; woody debris	1540		
7	SPT	17.5	2	18				SANDY SILT - dark brown, fine; trace woody debris; fine to medium sand at tip	1550		
8	SPT	20.0	6	18				SAND - dark gray, fine to medium; volcanic clasts and quartz; trace silt	1600		

HONG CONSULTING ENGINEERS, INC.

SHEET 1 of 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546 CLIENT URS/METRO	BORING NO. 7-4095
LOCATION SKETCH	PROJECT NAME METRO ETS-7	
	DRILLING METHOD: HOLLOW STEM AUGER	
	SAMPLING METHOD: STANDARD PENETRATION TEST	
	140 LB. SAFETY HAMMER DROPPED 30 INCHES	
	WATER LEVEL	START TIME
	11'	15.5'
	0912	0943
	0830	1000
	DATE	DATE
	2-12-86	2-12-86

SURFACE		ELEVATION		CASING DEPTH		DATE	
		17'				2-12-86 2-12-86	
SURFACE CONDITION							
GRASS COVER							
HNU BACKGROUND < 1.0 ("B")							
CLASSIFICATION				DESCRIPTION			
FILL							
SAND - brown, medium; some gravel							
SAND - brown, fine to coarse; some fine gravel; brick, glass, metal fragments 0900							
SAND - mottled brown, dark yellow, fine to coarse; some fine gravel; abundant glass 0910							
SAND - as above; glass, metal and possible gypsum wallboard debris; odor 0915							
SAND - as above; brick							
SAND - dark gray, fine to medium; trace silt; volcanic and quartz clasts; wet 0930							
SAND - as above; 2 inch silt interbed at tip; trace gravel; poorly laminated							
SAND - dark brown, fine to coarse; top 6 inches SILT - brown; poorly laminated, with occasional organic laminations 0945							
INTERBEDDED SAND AND SILT - dark gray, fine to medium; laminated; moist 0955							

DRILLING CONTRACTOR: SUBTERRANEAN CW

BY: SHE DATE 2-12-86 CHD BY: SH

HONG CONSULTING ENGINEERS, INC.

SHEET 2 OF 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/Metro	BORING NO. 7-4095
LOCATION SKETCH	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		11'	15.5'
TIME		0912	0943
DATE		2-12-86	2-12-86
START TIME		0830	
FINISH TIME		1000	
DATE		DATE	

SURFACE		ELEVATION	17'		CASING DEPTH	2-12-86	2-12-86
SURFACE CONDITION							
CLASSIFICATION	DESCRIPTION						
20	20.5 SPT 22.0	3 6 18	13 13	1 -	INTERBEDDED SILT AND SAND - dark gray; bedded and laminated	1005	1005
25	END OF HOLE measured depth at end of drilling 20.5'; bentonite seal placed at 11.5-12.0'; hole sloughed below seal, backfilled with cuttings above seal to surface						

DRILLING CONTRACTOR SUBTERRANEAN
 DRILLER CW

BY SHE
 DATE 2-12-86 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

<p>LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION</p> <p>LOCATION SKETCH CONVERSE HOLE DM-335 TRANSFER STATION PAVEMENT</p>	<p>JOB NO. 8546 CLIENT URS/METRO</p> <p>PROJECT NAME METRO ETS-7</p> <p>BORING NO. 7-4150</p> <p>DRILLING METHOD: HOLLOW STEM AUGER</p> <p>SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>WATER LEVEL</td> <td>12.5'</td> <td>16'</td> <td>START TIME</td> <td>FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>1106</td> <td>1143</td> <td>1015</td> <td>1200</td> </tr> <tr> <td>DATE</td> <td>2-12-86</td> <td>2-12-86</td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2-12-86</td> <td>2-12-86</td> </tr> </table>	WATER LEVEL	12.5'	16'	START TIME	FINISH TIME	TIME	1106	1143	1015	1200	DATE	2-12-86	2-12-86	DATE	DATE				2-12-86	2-12-86
WATER LEVEL	12.5'	16'	START TIME	FINISH TIME																	
TIME	1106	1143	1015	1200																	
DATE	2-12-86	2-12-86	DATE	DATE																	
			2-12-86	2-12-86																	

DATE		SURFACE		ELEVATION		18'		CASING DEPTH		2-12-86		2-12-86	
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES SPIN RECOVERED	CH ₄	DEPTH IN FEET	PIEZOMETER	SEAL	W/L	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION	
						0				GRASS COVER HNU BACKGROUND <1.0 ("B")			
										FILL			
1	SPT	2.0	50	6	B					SAND - brown, fine to medium; trace fine gravel; brick, glass, concrete; bit refusal in first 6 inches, rest of recovery is slough			1050
2	SPT	4.5	18	18	B	5				SAND - brown, fine to medium; trace gravel; brick, concrete			1105
3	SPT	7.0	14	18	B					SAND - as above; brick			
										NOTE: bit chattering at 9'			
4	SPT	9.5	6	18	2	10		SEAL		SAND - dark gray, fine medium; trace fine gravel volcanic clasts, quartz; wet; naphtha odor; glass fragment			1120
5	SPT	12.0	16	18	2.5					INTERBEDDED SAND AND SILT - dark gray, fine to medium; fining toward top; plant debris in silt			1130
										NOTE: petroleum odor noted at 14'			
6	SPT	14.5	9	18	2	15				SILT - brown; laminated; some woody debris and organic laminae; trace clay; naphtha odor, probably from slough			1140
7	SPT	17.0	5	18	2					SILT - brown; laminated; woody debris; root tubes; organic rich laminations; trace of sand and clay laminations			1150
8	SPT	19.5	2	18	2	20				SILT - brown; almost fine sand; trace of plant debris, top 12 inches			

DRILLING CONTRACTOR: SUBTERRANEAN
 BUREAU: CW
 SHEET: 2-12-86
 DATE: 2-12-86
 SHEET NO: SH

HONG CONSULTING ENGINEERS, INC.

SHEET 2 OF 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION			JOB NO. 8546		CLIENT URS/METRO		BORING NO. 7-4150	
LOCATION SKETCH			PROJECT NAME METRO ETS-7					
			DRILLING METHOD: HOLLOW STEM AUGER					
			SAMPLING METHOD: STANDARD PENETRATION TEST					
			140 LB. SAFETY HAMMER DROPPED 30 INCHES					
			WATER LEVEL		12.5'	16'	START TIME	FINISH TIME
			TIME		1106	1143	1015	1200
			DATE		2-12-86	2-12-86	DATE	DATE
			CASING DEPTH				2-12-86	2-12-86

SURFACE					ELEVATION	18'			
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN INCHES RECOVERED	HN ₄ CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION
						20			SAND dark gray, fine to medium; volcanic and quartz grains, last 6 inches 1200
9	SPT	22.0	5	18	0				SAND - dark gray, fine to medium; volcanic and quartz clasts; trace of plant debris 1215
						25			END OF HOLE total depth measured at 18 feet, 5' of heave?; water level at 16"; hole sloughed to 11.0; bentonite seal at 10.5-11.0'; hole filled with cuttings to surface

SUBTERRANEAN
DRILLING CONTRACTOR
CW
DRILLER

BY SHE
DATE 2-12-86
CHD BY SH

HONG CONSULTING ENGINEERS, INC.

Sheet 1 of 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION				JOB NO. 8546 CLIENT URS/METRO		BORING NO. 7-4250																																																																																																												
LOCATION SKETCH				DRILLING METHOD: HOLLOW STEM AUGER																																																																																																														
				SAMPLING METHOD: STANDARD PENETRATION TEST																																																																																																														
				140 LB. SAFETY HAMMER DROPPED 30 INCHES																																																																																																														
WATER LEVEL		11'		15'		START TIME	FINISH TIME																																																																																																											
TIME		1415		1447		1345	1510																																																																																																											
DATE		2-12-86		2-12-86		DATE	DATE																																																																																																											
CASING DEPTH						2-12-86	2-12-86																																																																																																											
ELEVATION 16'				SURFACE CONDITION GRASS COVER																																																																																																														
SURFACE				HNu BACKGROUND < 1.0 ("B")																																																																																																														
CLASSIFICATION				DESCRIPTION																																																																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE NO</th> <th>SAMPLE DEPTH</th> <th>BLOWS PER 6 INCHES</th> <th>INCHES OPENED RECOVERED</th> <th>HNu</th> <th>DEPTH IN FEET</th> <th>RECOMETER</th> <th>SOUNDING LOG</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.5</td> <td>14</td> <td>18</td> <td>8</td> <td>0</td> <td></td> <td rowspan="7" style="vertical-align: middle; text-align: center;"> </td> </tr> <tr> <td>SPT</td> <td>4.0</td> <td>20</td> <td>26</td> <td>8</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>5.0</td> <td>12</td> <td>18</td> <td>1</td> <td>5</td> <td></td> </tr> <tr> <td>SPT</td> <td>6.5</td> <td>21</td> <td>15</td> <td>14</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>7.5</td> <td>6</td> <td>18</td> <td>1</td> <td>10</td> <td></td> </tr> <tr> <td>SPT</td> <td>9.0</td> <td>4</td> <td>4</td> <td>14</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>10.0</td> <td>7</td> <td>18</td> <td>1</td> <td>15</td> <td></td> </tr> <tr> <td>SPT</td> <td>11.5</td> <td>10</td> <td>12</td> <td>18</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>12.5</td> <td>1</td> <td>18</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>SPT</td> <td>14.0</td> <td>1</td> <td>5</td> <td>18</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>15.0</td> <td>2</td> <td>18</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>SPT</td> <td>16.5</td> <td>5</td> <td>6</td> <td>16</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>17.5</td> <td>3</td> <td>18</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>SPT</td> <td>19.0</td> <td>5</td> <td>5</td> <td>18</td> <td></td> <td></td> </tr> </tbody> </table>				SAMPLE NO	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES OPENED RECOVERED	HNu	DEPTH IN FEET	RECOMETER	SOUNDING LOG	1	2.5	14	18	8	0			SPT	4.0	20	26	8			2	5.0	12	18	1	5		SPT	6.5	21	15	14			3	7.5	6	18	1	10		SPT	9.0	4	4	14			4	10.0	7	18	1	15		SPT	11.5	10	12	18			5	12.5	1	18	1			SPT	14.0	1	5	18			6	15.0	2	18	1			SPT	16.5	5	6	16			7	17.5	3	18	1			SPT	19.0	5	5	18			FILL SAND - brown, fine to medium; trace silt; some fine to coarse gravel			
				SAMPLE NO	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES OPENED RECOVERED	HNu	DEPTH IN FEET	RECOMETER	SOUNDING LOG																																																																																																							
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SPT	19.0	5	5	18																																																																																																														
				GRAVEL AND SAND - brown to gray, fine and coarse; brick fragments 1405																																																																																																														
				SAND - dark gray, fine to coarse; some fine gravel; iron staining; glass, concrete 1415																																																																																																														
				SAND - dark gray, fine to coarse; some silt at top; trace fine gravel; volcanic and quartz grains; wet 1420																																																																																																														
				SAND - dark gray, fine to medium; fining toward tip; trace gravel; volcanic and quartz grains; indistinct laminations at tip; wet 1430																																																																																																														
				SILT - gray; trace fine sand; little wood debris, organic laminations; laminated 1440																																																																																																														
				SAND - dark gray, fine; trace silt at tip; volcanic and quartz grains 1450																																																																																																														
				SAND - gray, fine; some silt laminations; laminated; poorly sorted																																																																																																														

DRILLING CONTRACTOR: **CW**
 DRILLER: **CW**
 BY: **SH**
 DATE: **2-12-86**
 CHECK BY: **SH**

HONG CONSULTING ENGINEERS, INC.

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION			JOB NO. 8546 CLIENT URS/METRO		BORING NO. 7-4300																			
LOCATION SKETCH			PROJECT NAME METRO ETS-7		DRILLING METHOD HOLLOW STEM AUGER																			
			SAMPLING METHOD STANDARD PENETRATION TEST																					
			140 LB. SAFETY HAMMER DROPPED 30 INCHES																					
DATE SURFACE			ELEVATION 14.0'		CASING DEPTH																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DEPTH IN FEET</th> <th>PIEZOMETER</th> <th>GRAPHIC LOG</th> </tr> <tr> <td>0</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td></td> <td></td> </tr> <tr> <td>20</td> <td></td> <td></td> </tr> </table>			DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	0			5			10			15			20			SURFACE CONDITION GRASS COVER			
DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG																						
0																								
5																								
10																								
15																								
20																								
			H _{Nu} BACKGROUND < 1.0 ("B")																					
			CLASSIFICATION DESCRIPTION																					
			FILL																					
			SAND - dark brown, fine to coarse; some fine to coarse gravel; glass																					
1			SAND - dark brown, fine to coarse; some fine gravel; yellow clinker, glass, wood, brick 0910																					
2			SAND AND GRAVEL - black, fine to coarse; wood debris, other material; wet 0925																					
3			SAND - dark gray, fine to medium; trace of fine gravel; trace of plant debris 0935																					
4			SILTY CLAY - brown, laminated; little clay in bottom 6"; wood debris and organic laminations; root burrowing in last 6 inches below 1/2 inch organic horizon 0950																					
5			SANDY SILT - dark gray, fine; trace clay; laminated; volcanic clasts; abundant plant debris 1000																					
6			SILTY SAND - dark gray, fine grained; laminated; plant debris at top 1010																					
7			SAND - dark gray, fine to medium; trace silt laminations; volcanic and quartz grains																					
			END OF HOLE - hole sloughed to 11 feet, bentonite seal at 11.0 - 11.5 feet, backfilled with cuttings; total depth measured at 14' inside auger																					

DRILLING CONTRACTOR: JUDY L. CARAVANIAN
 DRILLER: CW
 DATE: 2-12-86
 SHEET: SH

HONG CONSULTING ENGINEERS, INC.

Sheet 1 of 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION		JOB NO. 8546 CLIENT URS/METRO	BORING NO. 7-4350
LOCATION SKETCH		PROJECT NAME METRO ETS-7	
		DRILLING METHOD: HOLLOW STEM AUGER	
		SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES	
WATER LEVEL		NOT MEASURED	START TIME 1100 FINISH TIME 1300
TIME			DATE
DATE			DATE

DEPTH	SURFACE				ELEVATION	CASING DEPTH	SURFACE CONDITION	
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 4 INCHES	INCHES DRIVEN INCHES RECOVERED	CH _n	DEPTH IN FEET	PERFORETER	DRIVING LOG
						0		GRASS COVER
								CLASSIFICATION DESCRIPTION
								FILL
1	SPT	2.5 4.0	24 12	18 6	-			SAND - dark brown, fine to coarse; trace fine gravel; ceramic, glass, brick, clinker debris 1125
2	SPT	5.0 6.5	2 2	18 14	-	5		CLAYEY SILT - gray, mottled; plant debris and organic laminations; root traces; bioturbation; glass at top 1140
3	SPT	7.5 9.0	6 9	18 18	-			SAND - dark gray, fine to medium; laminated; trace fine gravel; volcanic and quartz grains; some shells possible 1155
4	SPT	10.0 11.5	1 1	18 18	-	10	SEAL	CLAYEY SILT - brown, laminated; abundant plant debris and organic laminations; mottled, probable root turbations 1205
5	SPT	12.5 14.0	3 4	18 18	-			SANDY SILT - gray to brown at top; little clay and abundant organic laminations at top; grading to fine sandy silt at base; glass fragment in middle 1215
6	SPT	15.0 16.5	2 2	18 18	-	15		SAND AND SILT - gray and brown, fine to medium; poorly laminated; volcanic and quartz grains; silt forms discrete layer parallel to core barrel; glass 1230
7	SPT	16.5 18.0	4 7	18 18	-			SAND AND SILT - dark gray, fine to medium; laminated; silt layer parallel to barrel, possibly scrapped off hole side on way down 1240
						20		END OF HOLE - hole sloughed to 11 feet, bentonite seal 10.5 - 11.0 feet, backfilled with drill cuttings to surface

DRILLING CONTRACTOR: SUE PERKINS/BAK
 ENGINEER: CM
 BY: SNE
 DATE: 2-13-86
 CHECKED BY: SH

HONG CONSULTING ENGINEERS, INC.

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4400
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD HOLLOW STEM AUGER		
SAMPLING METHOD STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		10.7	10.8
TIME		1520	1530
DATE		2-13-86	2-13-86
START TIME		1400	
FINISH TIME		1530	
CASING DEPTH		2-13-86	

GUFUM SURFACE					ELEVATION	CASING DEPTH	
					12.5'		
					SURFACE CONDITION		
					GRASS COVER		
					HNU UNAVAILABLE		
					CLASSIFICATION		
					DESCRIPTION		
					FILL		
					SAND - brown, gray, fine to medium; some fine to coarse gravel		
					SAND - brown, fine to medium; trace silt; brick, glass; charcoal at tip 1440		
					SILTY SAND - brown, fine to coarse; trace gravel; glass 1455		
					SAND - dark gray, fine to medium; trace of plant debris; poorly laminated; volcanic grains 1500		
					CLAYEY SILT - light brown; blocky structure; laminated; abundant organic lamination; plant fragments 1530		
					SANDY SILT - gray, fine; laminated; plant fragments and laminations; soft sediment deformation 1545		
					SAND - dark gray, fine to medium; trace silt in laminations; volcanic and quartz grains plant debris		
					SAND - as above, top 12 inches 1555		
					SILTY SAND - dark gray, fine; trace of wood fragments		
					END OF HOLE - total depth measured at 14.6 inside auger; hole sloughed to 11.5', bentonite seal 11.0' - 11.5'; backfilled with cuttings to		

DRILLING CONTRACTOR SUBTERRANEAN
 DRILLER CW

BY SHE
 DATE 2-13-86 CHD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

<p>LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION</p> <p>LOCATION SKETCH</p>	<p>JOB NO. 8546 CLIENT URS/METRO</p> <p>PROJECT NAME METRO ETS-7</p> <p>BORING NO. 7-4450</p> <p>DRILLING METHOD: HOLLOW STEM AUGER</p> <p>SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>WATER LEVEL</td> <td>6.5'</td> <td>10.4'</td> <td>START TIME</td> <td>FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>0900</td> <td>0950</td> <td>0830</td> <td>1015</td> </tr> <tr> <td>DATE</td> <td>2-14-86</td> <td>2-14-86</td> <td>DATE</td> <td>DATE</td> </tr> </table>	WATER LEVEL	6.5'	10.4'	START TIME	FINISH TIME	TIME	0900	0950	0830	1015	DATE	2-14-86	2-14-86	DATE	DATE
WATER LEVEL	6.5'	10.4'	START TIME	FINISH TIME												
TIME	0900	0950	0830	1015												
DATE	2-14-86	2-14-86	DATE	DATE												

RETURN SURFACE				ELEVATION	CASING DEPTH	START DATE	FINISH DATE
				11.5'		2-14-86	2-14-86
DEPTH IN FEET	PIEDMETER	GRAIN SIZE	CLASSIFICATION	DESCRIPTION			
0				SURFACE CONDITION GRASS COVER HNU UNAVAILABLE			
0				FILL			
1				SAND - brown, fine to coarse; little fine to coarse gravel; brick fragments			
1				SAND - brown, fine to coarse; some fine to coarse gravel; concrete and crushed rock			0855
2				SILTY SAND - brown, fine to medium; some fine gravel; rusty stain in places; black and wet at tip; glass			0905
3				SAND - dark gray, fine to medium; volcanic and quartz grains; minor iron stain			
3				SILT - gray; some fine sand; laminated; plant debris; laminations			0915
4				CLAYEY SILT - brown; laminated; blocky structure; abundant plant debris			0930
5				SANDY SILT - gray; laminated; trace of plant debris; clayey at top; soft sediment deformation, mud diaper at top			0945
6				SILTY SAND - dark gray, fine to medium; laminated; sand only at tip; glass; cedar chunk			1000
7				SAND - dark gray, fine; some silt in places; volcanic, quartz grains			1010
				END OF HOLE - total depth measured inside auger 15.3 feet; hole backfilled with cuttings to surface			

DRILLING CONTRACTOR SUBTERRANEAN
DRILLER CW

BY SHE
DATE 2-14-86 CHECK BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION				JOB NO. RS&E CLIENT URS/METRO		BORING NO. 7-4500			
LOCATION SKETCH 				PROJECT NAME METRS ETS-7				DRILLING METHOD: HOLLOW STEM AUGER	
				SAMPLING METHOD: STANDARD PENETRATION TEST					
				140 LB. SAFETY HAMMER DROPPED 30 INCHES					
WATER LEVEL		10.0'		11.3'		START TIME	FINISH TIME		
TIME		1140		1200		1045	1200		
DATE		2-14-86		2-14-86		DATE	DATE		
DATE		2-14-86		2-14-86		DATE	DATE		

DATUM SURFACE				ELEVATION 11.5'		CASING DEPTH		2-14-86 2-14-86	
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLINDS PER 10 INCHES	BLOWS (20 INCHES RECORD RED)	CU#	DEPTH IN FEET	PIEZOMETER	ORGANIC LOG	SURFACE CONDITION
									GRASS COVER
HNu UNAVAILABLE									
					CLASSIFICATION	DESCRIPTION			
0									FILL
									SAND - brown; fine to medium; some fine to coarse gravel 1110
1	SPT	2.5	10	4	18	3	SAND - brown, rusty staining, fine to medium; glass, brick, other debris, aluminum, wire		
2	SPT	5.0	7	7	18	10	SAND - dark gray, fine to medium; trace of plant debris; volcanic and quartz grains 1120		
3	SPT	7.5	1	2	18	18	SAND - as above; trace fine gravel; trace plant debris 1130		
4	SPT	10.0	1	2	18	18	SAND - as above, 9 inches; glass fragments		
									CLAYEY SILT - brown; laminated; abundant organic debris and laminae 1140
5	SPT	12.5	1	2	18	18	SILT - gray, well laminated; trace organic debris 1150		
6	SPT	15.0	8	12	18	18	INTERBEDDED SAND AND SILT - dark gray, fine to medium; laminated; volcanic and quartz grains; trace plant debris 1205		
7	SPT	16.5	3	4	18	18	SAND - dark gray, fine; poorly laminated; volcanic and quartz grains 1215		
									END OF HOLE - total depth 14.1 feet measured inside auger. 4 feet of heave. Hole backfilled with cuttings to surface
									20

DRAWING CONTRACTOR SUBTERRANEAN
DRILLER CW

BY SHE 2-14-86
DATE 2-14-86 CHECK BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4545
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		11.0'	11.2'
TIME		1425	1435
DATE		2-14-86	2-14-86
DATUM SURFACE		ELEVATION 11.5'	
CASING DEPTH		2-14-86 2-14-86	

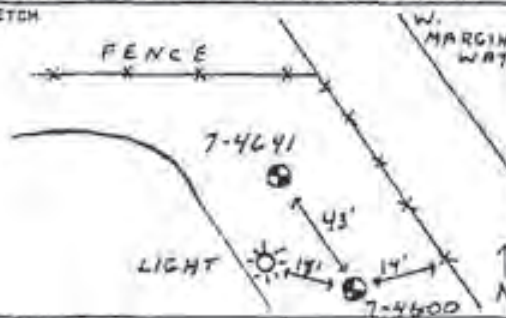
SUBTERRANEAN
 DRILLING CONTRACTOR CW
 DRILLER

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	CH ₄	DEPTH IN FEET	PERIMETER	CASING LOG	SURFACE CONDITION	
								CLASSIFICATION	DESCRIPTION
								GRASS COVER	
								H ₂ O UNAVAILABLE	
								FILL	
								SAND - brown, fine to coarse; some fine to coarse gravel	
1	2.5	4	18					SAND - brown, fine to coarse; plant debris; brick 1410	
	4.0	15	7	4					
2	5.0	2	18					Driller reports thinking he was on metal; cuttings are sand as above	
	6.5	9	6	0					
3	7.5	10	18					SAND - dark gray, fine to medium; trace fine gravel; some silt, rust stain; glass; plant debris; brick fragments 1420	
	9.0	8	7	12					
4	10.0	2	18					CLAYEY SILT - brown; laminated; abundant plant debris and organic laminae; sandy to top 1430	
	11.5	2	3	18					
5	12.5	1	18					SILT - gray; laminated; wood and other plant debris 1440	
	14.0	1	18						
6	15.0	8	18					SAND - dark gray, fine; trace silt; volcanic and quartz grains	
	16.5	12	18						
7	16.5	4	18					SAND - as above	
	18.0	16	18						
								END OF HOLE - total depth measured at 16.9 feet inside auger. Hole backfilled with cuttings to surface	

BY SHE
 DATE 2-14-86
 CHECK BY SH

HONG CONSULTING ENGINEERS, INC.

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LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION				JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4600			
LOCATION SKETCH 				PROJECT NAME METRO ETS -7				DRILLING METHOD: HOLLOW STEM AUGER	
				SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. HAMMER DROPPED 30 INCHES					
				WATER LEVEL: 10.9'		15'			
				TIME: 0945		0910			
				DATE: 2-17-86		2-17-86			
DATUM SURFACE				ELEVATION 14'		CASING DEPTH			
				START TIME: 0800		FINISH TIME: 0930			
				START DATE: 2-17-86		FINISH DATE: 2-17-86			

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN INCHES RECOVERED	CUTTING	DEPTH IN FEET	PERCENTAGE	CLASSIFICATION	DESCRIPTION
					0		FILL	
1	2.0	3	18				SAND - brown, fine to coarse; some fine to coarse gravel	
	7.5	2	7				SAND - brown, iron staining, fine to coarse; trace fine gravel; wire, other debris	0830
2	4.5	1	18		5		SAND - as above; glass, other debris	0835
	6.0	1	4					
3	7.0	5	18				SAND - dark gray, fine to medium; volcanic and quartz grains; wet	0840
	9.5	6	8					
4	9.5	1	18		10		SILT AND SAND INTERBEDDED - dark gray to gray; fine to medium; laminated; trace of plant debris; faint fuel oil odor	0850
	11.0	1	18					
5	12.0	4	18				CLAYEY SILT - brown; laminated; blocky structure; abundant plant matter; trace fine sand at top; tight, moist	0900
	13.5	1	18					
6	14.5	1	18		15		SILT - gray; laminated; plant stems abundant	0910
	16.0	2	18					
7	17.5	3	18				SILT - as above; fine to medium sand bed at base	0920
	19.0	3	18					
END OF HOLE: Total depth measured as 15.5 feet inside auger; hole bottom mushy, but no water table; hole backfilled with cuttings to surface								

SUBTERRANEAN
DRILLING CONTRACTOR
DRILLER

SHE
DATE 2-17-86
CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

1 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546 / CLIENT URS/METRO	BORING NO. 7-4641
LOCATION SKETCH 	PROJECT NAME METRO ETS-7	
	DRILLING METHOD: HOLLOW STEM AUGER	
	SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES	
	WATER LEVEL	START TIME
	TIME	FINISH TIME
	DATE	DATE
DATUM SURFACE	ELEVATION 14'	CASING DEPTH
		2-17-86 2-17-86

DRILLING CONTRACTOR SUBTERRANEAN
DRILLER CW

BY SHE
DATE 2-17-86 OVD BY SH

SAMPLE NO. SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 4 INCHES	INCHES DRIVEN INCHES RECOVERED	CH 4	DEPTH IN FEET	PERMEATER	SOIL LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION	TIME
					0			GRASS COVER			
								HNO ₃ BACKGROUND = "B"			
								FILL			
1 SPT	2.5 4.0	17 21	18 10	0 8				SAND - brown, some iron staining, fine to medium; some fine to coarse gravel; wire, other debris; dry			1030
2 SPT	5.0 6.5	6 5	18 3	- 1	5			SAMPLE TOO SMALL TO PROPERLY LOG - one large chunk of what appears to be pumice, plus sand debris			1040
3 SPT	7.5 9.0	3 4	18 4	B 6				SAND - dark gray, fine to medium; trace of plant debris; volcanic quartz grains; wet			1045
4 SPT	10.0 11.5	1 1	18 12	B -	10			SAND - as above; glass and small bit of fill incorporated into middle of sample; wet			1050
5 SPT	12.5 14.0	1 1	18 18	B -				CLAYEY SILT - gray with black organic laminations; silt at top, laminated; at tip blocky with abundant plant fibers; organic odor; moist			1100
6 SPT	15.0 16.5	3 4	18 5	18 18	15			INTERBEDDED SILT AND SAND - gray, laminated; fine; trace of plant debris; wet			1115
7 SPT	18.5 20.0	2 2	18 4	18 18	20			SANDY SILT - gray, laminated; fine; trace of plant debris; wet			1125
END OF HOLE; Total depth 16.6 feet inside auger; hole backfilled to surface with cuttings											



Boring Log

Project Number
100166

Boring Number
MW-30

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev 17.60' NAVD88

Location: Seattle, WA

Driller/Method: Cascade Drilling, / Hollow Stem Auger

Depth to Water 10.8' BGS (ATD)

Sampling Method: Dames & Moore

Start/Finish Date 6/15/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
	Concrete seal, 0'-2'						Loose, slightly moist, brown, trace to slightly silty SAND (SP-SM); fine to medium sand, predominantly fine.	
5	2-inch diameter schedule 40 PVC casing, 0'-8' Hydrated bentonite chips, 2'-6'	S-1		0.0	1 1 1			5
	#2/12 sand filter pack, 6'-13'	S-2		0.0	1 1 1		Loose, slightly moist, brown, slightly silty SAND (SP-SM); with frequent, thin SILT (ML) lamina.	
10	2-inch diameter schedule 40 PVC 10-slot screen, 8'-13'	S-3		0.0	1 1 1		Loose, wet, brown, slightly silty SAND (SP-SM); trace fine gravel.	10
	▽ 6/15/2011						Soft, wet, gray, clayey SILT (ML).	
	PVC endcap	S-4		0.0	2 1 1		Loose, wet, black, slightly silty to silty SAND (SP-SM). Gravelly.	
15	Slough	S-5		0.0	3 4 6		Loose, wet, black SAND (SP) with 2" gray SILT (ML) pockets.	15
							Bottom of boring at 16.5' below ground surface.	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

▼ Static Water Level

▽ Water Level (ATD)

Approved by: JJS

Figure No. B-26



Boring Log

Project Number
100166

Boring Number
MW-31

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev 17.58' NAVD88

Location: Seattle, WA

Driller/Method: Cascade Drilling, / Hollow Stem Auger

Depth to Water 11' BGS (ATD)

Start/Finish Date 6/15/2011

Sampling Method: Dames & Moore

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0 - 2'	Concrete seal, 0'-2'							
2 - 18'	2-inch diameter schedule 40 PVC casing, 0'-18'	S-1		0.0	3 3 3		Loose, slightly moist, brown, slightly silty SAND (SP-SM); fine sand.	5
10 - 11'		S-2		0.0	3 3 4		Loose, slightly moist, dark gray SAND (SP); fine to medium sand.	
10 - 16'	Hydrated bentonite chips, 2'-16' ▽ 6/15/2011	S-3		0.0	4 4 3		Wet.	10
15 - 16'		S-4		0.0	3 5 8		Stiff, wet, gray SILT (ML); with wood debris.	15
16' - 26'	#2/12 sand filter pack, 16'-26'						Medium dense, wet, dark gray to black SAND (SP); trace silt; fine to medium sand.	
20 - 23'	2-inch diameter schedule 40 PVC 10-slot screen, 18'-23'	S-5		0.0	4 6 8			20
26' - 27'	PVC endcap	S-6		0.0	5 9 9			25
26' - 26'							Bottom of boring at 26' below ground surface.	

ENV BORING LOG SOUTH PARK LANDFILL 100116.GPJ December 1, 2011

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET**

Approved by: **JJS**

Figure No. **B-27**

5th Avenue Properties Ownership History Memorandum

Memorandum

To: Teri Floyd, Project Manager, Floyd|Snider
Copies: South Park Landfill files; Appendix to RI
From: Lisa Meoli, Historian, Floyd|Snider
Date: June 16, 2016
Project No: COS-SPARK
Re: 5th Avenue Properties Ownership History

Floyd|Snider completed historical property ownership research for three parcels located east of 5th Avenue South immediately adjacent to the South Park Landfill (Landfill) as shown in Figure 1. The properties include the following:

- 8230 5th Avenue South, Tax Parcel No. 7883600005
- 8250 5th Avenue South, Tax Parcel No. 7883600350
- 500 South Sullivan Street, Tax Parcel No. 7883600600

A question arose during the South Park Landfill Remedial Investigation that related to the ownership of three properties along 5th Avenue South, specifically whether the properties were in private ownership or owned by the City of Seattle or King County. Aerials (1936, 1941, 1947, 1953, April and June 1956, and 1963) indicate that, prior to the 1960s, the properties saw very little activity other than the construction of an early segment of SR 99 (East Marginal Way) along the eastern boundary in the mid- to late 1940s. However, starting in the mid-1960s and continuing through the late 1970s, land disturbance, apparent filling and grading, and construction of facilities are apparent in the aerials. This, in combination with logs from soil borings and test pits indicating unclassified fill, cement kiln dust, and general solid waste (bricks, glass, etc.), suggests that these properties were likely filled during this time. Representative aerials are shown in Figure 2. All available aerials are presented in Appendix A of the Remedial Investigation/Feasibility Study (RI/FS), and all available soil and test pit borings are presented in Appendix B of the RI/FS.

Ownership research was performed at Seattle Municipal Archives (SMA) and King County Archives (KCA). To confirm King County and/or City of Seattle ownership during the period of active landfill operations, historical deed abstracts documenting property transaction data over time were obtained from the SMA microfilm collection (refer to Attachment 1). Deed abstracts include an auditor file number, which is essential for locating warranty deeds and/or other real

estate transaction documentation at KCA, and information garnered is used in establishing a timeline of ownership. Documents recorded in King County on or after August 1, 1991 are typically available online. Documents recorded prior to 1991 are on microfilm and are only available at KCA.

Floyd|Snider requested warranty deeds and other real estate transaction records targeting the 1950s until 1980s; therefore, records included in this memorandum are not inclusive of all deeds available at KCA. Recent warranty deeds, post-1980s, were obtained from the King County Recorder's Office records database available online (refer to Attachment 2). Original plat maps retained at KCA for South Park and River Park were also obtained (refer to Attachment 3).

The summary below includes the history of ownership for each property researched by address, parcel number, plat name, and block and lot numbers. For purposes of this memorandum, only lots included within the current parcel boundaries were included. Refer to Figure 1 for current parcel boundaries and the historical block and lot lines.

8230 5TH AVENUE SOUTH: TAX PARCEL NO. 7883600005

The property located at 8230 5th Avenue South consists of a 1.3-acre property currently owned by JYS4, LLC. The property is located within the River Park Plat - Block 5, Lots 21-24 and South Park Plat - Block 1, Lots 1-6.

River Park Plat - Block 5, Lots 21 through 24

According to the deed abstract, Lots 21 through 24 were privately owned from 1920 until 1929. From 1929 to 1940, King County owned Lots 21 through 24. In 1940, Lots 21 through 24 were conveyed to the City of Seattle for street purposes. Sometime between 1940 and 1948, Lots 21 through 24 were conveyed back to King County until 1955. From 1955 until 1988, Lots 21 through 24 were privately owned. In 1988, an easement was conveyed to the City of Seattle for a storm drain on a portion of Lot 24. According to more recent King County tax assessor records, Lots 21 through 24 have remained privately owned from 1988 until present day.

South Park Plat - Block 1, Lots 1 through 6

According to the deed abstract and warranty deed records, a private owner purchased Lots 1 through 6 from Commercial Waterway District #1 in 1953. Lots 1 through 6 remained privately owned from 1953 until 1980. According to more recent King County tax assessor records, Lots 1 through 6 have remained privately owned from 1980 until 2016.

8250 5TH AVENUE SOUTH - TAX PARCEL NO. 7883600350

The property located at 8250 5th Avenue South consists of 2.4 acres and is currently owned by Ness Manitowoc Property, LLC. The property is located within the South Park Plat - Block 2, Lots 1

through 11 (the northern portion of the block) and Lots 34 through 48 (the southern portion of the block).

South Park - Block 2, Lots 1 through 11

According to the deed abstract, Lots 1 through 11 were first purchased from the Commercial Waterway District #1 in 1953. Lots 1 through 11 remained privately owned until 1958. In 1958, the State of Washington purchased Lots 8 through 11. Lots 8 and 9 were conveyed back to private ownership in 1964. From 1958 until 1965, Lots 10 and 11 were owned by the State of Washington. Per the deed abstract, Lots 1 through 11 were privately owned from 1965 until 1988. According to more recent King County tax assessor records, Lots 1 through 11 have remained privately owned from 1988 until 2016.

South Park – Block 2, Lots 34 through 48

According to the deed abstract, Lots 34 through 48 were purchased from King County by a private owner in 1955, less a portion for street use. Lots 34 through 48 remained privately owned until 1965. In 1965, Lots 34 through 38 were conveyed to the State of Washington-Seattle Freeway, presumably for roadway construction until 1973. In 1973, Lots 34 through 48 were conveyed back to private ownership until 1988. Based on more recent King County tax assessor records, Lots 34 through 48 have remained privately owned from 1988 until 2016.

500 SOUTH SULLIVAN STREET: TAX PARCEL NO. 7883600600

The property located at 500 South Sullivan Street consists of a 1.9-acre property currently owned by White Sands, LLC. The property is located within South Park Plat, Block 3, Lots 1 through 19 (the northern portion of the block) and Block 3, Lots 27 through 48 (the southern portion of the block).

South Park Plat - Block 3, Lots 1 through 19

According to the deed abstract, Lots 1 through 16 were purchased from King County by a private owner in 1968. From 1968 until 1988, Lots 1 through 16 remained privately owned. According to more recent King County tax assessor records, Lots 1 through 16 have remained privately owned from 1988 until 2016.

City of Seattle purchased Lots 17 through 19 from King County in 1948. In 1954, Lots 17 through 19 were purchased by a private owner. According to deed abstracts, Lots 17 through 19 were privately owned from 1954 until 1988. However, a portion of Lots 17 through 19 were conveyed to the State of Washington for roadway use in 1958 and 1965. In 1985, an easement was conveyed to King County Metro for a sewer interceptor pipeline.

South Park Plat – Block 3, Lots 27 through 48

According to the deed abstract, Lots 27 through 48 have been privately owned since 1951. In 1973 and 1986, an easement was conveyed to King County Metro for a sewer interceptor pipeline. According to more recent King County tax assessor records, Lots 27 through 48 have remained privately owned from 1988 until present day.

FIGURES

Figure 1 5th Avenue South Properties Historical Lot Lines (in a 2015 Aerial)

Figure 2 Time-Lapse Aerial Photographs of 5th Avenue South Properties

ATTACHMENTS

Attachment 1 Deed Abstracts

Attachment 2 Warranty Deeds and Real Estate Records

Attachment 3 Plat Maps

Figures

Legend

- - - Revised Landfill Boundary (based on RI/FS)
- Current Landfill Parcel
- Current Adjacent Parcel
- Approximate Historical Lot Lines
- 1 Block of Plat

Notes:

- Historical lot lines digitized from South Park Plat Map, ca. 1890 and River Park Plat Map, ca. 1891. Historical lines are approximate.
- Tax parcels provided by King County Geographic Information Systems Center.
- Orthoimagery provided by NearMap, September 27, 2015.

Abbreviation:

- RI/FS = Remedial Investigation/Feasibility Study



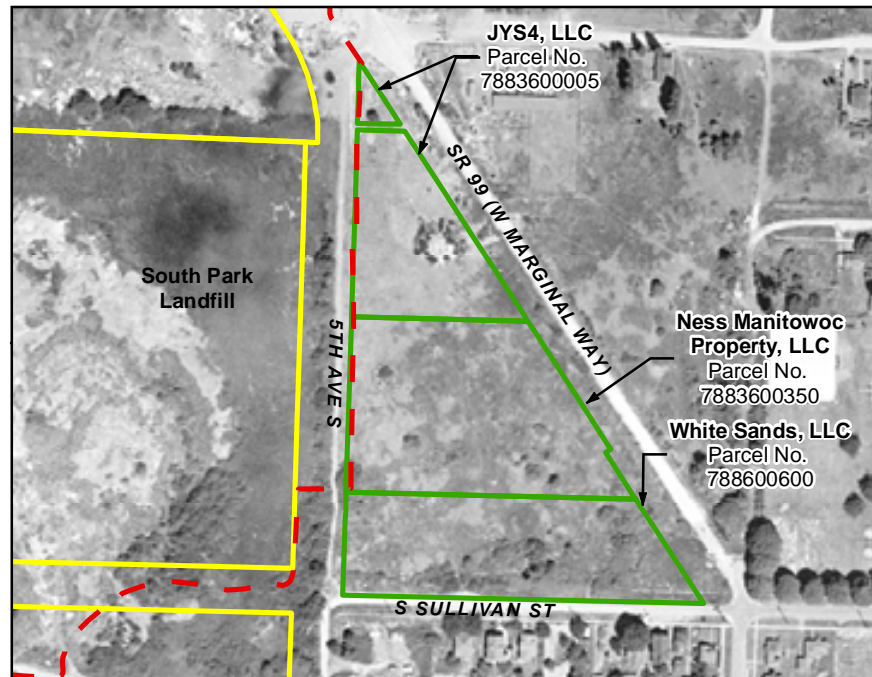
FLOYD | SNIDER
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Aspect CONSULTANTS

HERRERA

**5th Avenue South
Properties Ownership History
South Park Landfill
Seattle, Washington**

**Figure 1
5th Avenue South
Properties Historical Lot Lines**



1948



1963



1967



1969

Historical Property Notes
 1948: South Park Landfill is operational. Segment of SR 99 (West Marginal Way) installed; properties cleared, but not active.
 1963: South Park Landfill is operational. Segment of SR 99 (West Marginal Way) expanding; properties not active; owned by private party.
 1967: South Park Landfill is closed and capped with soil. SR 99 (West Marginal Way) in use; properties are starting to undergo development.
 1969: South Park Landfill is closed and capped with soil. Segment of SR 99 (West Marginal Way) in use; activities on 5th Avenue South properties continue; southern most property developed.
 1974: South Park Landfill is closed and capped with soil. SR 99 (West Marginal Way) in use; two southern most parcels developed; soils on northern parcel still disturbed.

Legend

- Revised Landfill Boundary (based on RI/FS)
- Current Landfill Parcel
- Current Adjacent Parcel

Notes:

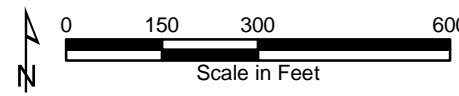
- Tax parcels provided by King County Geographic Information Systems Center.
- Orthoimagery provided by NearMap, September 27, 2015.

Abbreviation:

- RI/FS = Remedial Investigation/Feasibility Study



1974



**5th Avenue South Properties Ownership History
 South Park Landfill
 Seattle, Washington**

Figure 2
 Time Lapse Aerial Photographs
 of the 5th Avenue South Properties

Attachment 1
Deed Abstracts

THE CITY OF SEATTLE

South Park

Addition, Plat Book Vol. 4 Page 87

Block No. 1

NAME OF GRANTEE	PART OF LOT	DATE DEED	FILE NO.
Commercial Realty Co.	1/2 of lot 1	11-27-11	11-27-11
Do	1/2 of lot 2	11-27-11	11-27-11
Commercial Realty Co.	1/2 of lot 3	11-27-11	11-27-11
Do	1/2 of lot 4	11-27-11	11-27-11
Do	1/2 of lot 5	11-27-11	11-27-11
Do	1/2 of lot 6	11-27-11	11-27-11
Do	1/2 of lot 7	11-27-11	11-27-11
Do	1/2 of lot 8	11-27-11	11-27-11
Do	1/2 of lot 9	11-27-11	11-27-11
Do	1/2 of lot 10	11-27-11	11-27-11
Do	1/2 of lot 11	11-27-11	11-27-11
Do	1/2 of lot 12	11-27-11	11-27-11
Do	1/2 of lot 13	11-27-11	11-27-11
Do	1/2 of lot 14	11-27-11	11-27-11
Do	1/2 of lot 15	11-27-11	11-27-11
Do	1/2 of lot 16	11-27-11	11-27-11
Do	1/2 of lot 17	11-27-11	11-27-11
Do	1/2 of lot 18	11-27-11	11-27-11
Do	1/2 of lot 19	11-27-11	11-27-11
Do	1/2 of lot 20	11-27-11	11-27-11
Do	1/2 of lot 21	11-27-11	11-27-11
Do	1/2 of lot 22	11-27-11	11-27-11
Do	1/2 of lot 23	11-27-11	11-27-11
Do	1/2 of lot 24	11-27-11	11-27-11
Do	1/2 of lot 25	11-27-11	11-27-11
Do	1/2 of lot 26	11-27-11	11-27-11
Do	1/2 of lot 27	11-27-11	11-27-11
Do	1/2 of lot 28	11-27-11	11-27-11
Do	1/2 of lot 29	11-27-11	11-27-11
Do	1/2 of lot 30	11-27-11	11-27-11
Do	1/2 of lot 31	11-27-11	11-27-11
Do	1/2 of lot 32	11-27-11	11-27-11
Do	1/2 of lot 33	11-27-11	11-27-11
Do	1/2 of lot 34	11-27-11	11-27-11
Do	1/2 of lot 35	11-27-11	11-27-11
Do	1/2 of lot 36	11-27-11	11-27-11
Do	1/2 of lot 37	11-27-11	11-27-11
Do	1/2 of lot 38	11-27-11	11-27-11
Do	1/2 of lot 39	11-27-11	11-27-11
Do	1/2 of lot 40	11-27-11	11-27-11
Do	1/2 of lot 41	11-27-11	11-27-11
Do	1/2 of lot 42	11-27-11	11-27-11
Do	1/2 of lot 43	11-27-11	11-27-11
Do	1/2 of lot 44	11-27-11	11-27-11
Do	1/2 of lot 45	11-27-11	11-27-11
Do	1/2 of lot 46	11-27-11	11-27-11
Do	1/2 of lot 47	11-27-11	11-27-11
Do	1/2 of lot 48	11-27-11	11-27-11
Do	1/2 of lot 49	11-27-11	11-27-11
Do	1/2 of lot 50	11-27-11	11-27-11
Do	1/2 of lot 51	11-27-11	11-27-11
Do	1/2 of lot 52	11-27-11	11-27-11

CITY OF SEATTLE

South Park

Address, Plat Book Vol. 4, Page 87

PLAT	SECTION	OWNER	ACRES	VALUATION
1				
2		Commercial Building, etc.	1.200	12345678
3				
4				
5		Commercial Building, etc.	1.2345678	12345678
6		All that pt of the		
7		1/2 sec. parcel & lying		
8		between 1/2 sec. 24 W and		
9		extended from pt. corner		
10		Highway 19th St. 50+		
11		50' x 100' 1/2' by when		
12		cut at 1/2 sec from the d. 1		
13		of rd highway to a pt of		
14		intersection with the		
15		1/2 sec. 24 W of rd parcel		
16		& 1/2 sec. 24 W that pt of		
17		1/2 sec. 24 W that pt of		
18		1/2 sec. 24 W that pt of		
19		1/2 sec. 24 W that pt of		
20		1/2 sec. 24 W that pt of		
21		1/2 sec. 24 W that pt of		
22		1/2 sec. 24 W that pt of		
23		1/2 sec. 24 W that pt of		
24		1/2 sec. 24 W that pt of		
25		1/2 sec. 24 W that pt of		
26		1/2 sec. 24 W that pt of		
27		1/2 sec. 24 W that pt of		
28		1/2 sec. 24 W that pt of		
29		1/2 sec. 24 W that pt of		
30		1/2 sec. 24 W that pt of		
31		1/2 sec. 24 W that pt of		
32		1/2 sec. 24 W that pt of		
33		1/2 sec. 24 W that pt of		
34		1/2 sec. 24 W that pt of		
35		1/2 sec. 24 W that pt of		
36		1/2 sec. 24 W that pt of		
37		1/2 sec. 24 W that pt of		
38		1/2 sec. 24 W that pt of		
39		1/2 sec. 24 W that pt of		
40		1/2 sec. 24 W that pt of		
41		1/2 sec. 24 W that pt of		
42		1/2 sec. 24 W that pt of		
43		1/2 sec. 24 W that pt of		
44		1/2 sec. 24 W that pt of		
45		1/2 sec. 24 W that pt of		
46		1/2 sec. 24 W that pt of		
47		1/2 sec. 24 W that pt of		
48		1/2 sec. 24 W that pt of		
49		1/2 sec. 24 W that pt of		
50		1/2 sec. 24 W that pt of		

NAME OF GRANTEE	DATE OF LOT	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	NAME OF GRANTEE	DATE OF GRANT	DATE TRF. No. 10000	AMOUNT
Commercial Delivery District	10/24/18	1	Clarence W. Underhill & of Hazel	4/26/20	11 7 51	2,227.70
Commercial Delivery District	10/24/18	2	John E. Wicks & of Tulsa Path	4/26/20	2 17 20	2,620.30
Commercial Delivery District	10/24/18	3	Clarence R. Underhill & of Hazel	4/26/20	3 14 53	3,147.75
Commercial Delivery District	10/24/18	4	Albers Hughes & of S. F.	4/26/20	4 21 63	4,520.40
Commercial Delivery District	10/24/18	5	Clara La Vay	4/26/20	5 11 30	1,816.00
Commercial Delivery District	10/24/18	6	Safe Investment Corp.	4/26/20	6 18 54	2,520.00
Commercial Delivery District	10/24/18	7	M.B. Parker & E.W. Sather	4/26/20	7 11 30	1,816.00
Commercial Delivery District	10/24/18	8	State of Washington	4/26/20	8 9 27	1,125.00
Commercial Delivery District	10/24/18	9	State of Washington	4/26/20	9 10 10	1,125.00
Commercial Delivery District	10/24/18	10	State of Washington	4/26/20	10 7 56	1,125.00
Commercial Delivery District	10/24/18	11	Clara La Vay & of Hazel	4/26/20	11 21 31	2,420.40
Commercial Delivery District	10/24/18	12	Ruby M. Newton	4/26/20	12 21 62	2,420.40
Commercial Delivery District	10/24/18	13	Safe Investment Co.	4/26/20	13 5 27	1,260.00
Commercial Delivery District	10/24/18	14	William H. Mainwaring, agent	4/26/20	14 6 15	7,960.00
Commercial Delivery District	10/24/18	15	William H. Mainwaring	4/26/20	15 6 16	7,960.00
Commercial Delivery District	10/24/18	16	David & Adams	4/26/20	16 6 15	7,960.00
Commercial Delivery District	10/24/18	17	Do.	4/26/20	17 7 21	8,070.00
Commercial Delivery District	10/24/18	18	Chester W. O'Dell & Bonnie Inhof	4/26/20	18 4 16	9,634.90
Commercial Delivery District	10/24/18	19	John Amchlesstone	4/26/20	19 4 14	4,564.52
Commercial Delivery District	10/24/18	20	David W. Davis & Patricia D. Inhof	4/26/20	20 7 21	8,070.00
Commercial Delivery District	10/24/18	21	John & Wanda - Little Business (Dum.)	4/26/20	21 6 16	7,960.00

NAME OF GRANTEE	PART OF LOT	BLOCK NO.	NAME OF GRANTEE	ADDRESS OF GRANTEE	DATE FILED		ADDITIONAL FILE NO.
					DAY	MONTH	
1 Lewis King County	See plat for St 11	11	City of Seattle		11	10	15 7 48 388094
2 City of Seattle	See plat for St 11	11	M. B. Barber & E. W. Sather	1115 1/2 1st St	11	20	1914 1 26 487353
3 Clem LaVoy & of Opal	All that pt of lots 23 to 48 incl, 1/2 of pt of	23	Safe Investment Co		6	25	5 9 57 462478
4 City of Seattle	See plat for St 11	11	Marcia A. Sather, now Cagle		11	14	1914 7 14 487353
5 State of Washington	All that pt of lots 23 to 48 incl, 1/2 of pt of	23	State of Washington	(1st St W of 1st St to 1st St to 1st St to 1st St)	11	14	1914 7 14 487353
6 Clem LaVoy & of Opal	All that pt of lots 23 to 48 incl, 1/2 of pt of	23	Clem LaVoy & of Opal		1	21	1914 7 27 494497
7 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
8 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
9 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
10 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
11 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
12 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
13 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
14 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
15 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
16 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
17 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
18 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
19 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
20 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
21 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
22 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
23 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
24 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
25 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
26 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
27 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
28 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
29 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
30 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
31 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
32 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
33 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
34 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
35 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
36 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
37 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
38 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
39 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
40 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
41 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
42 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
43 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
44 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
45 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
46 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353
47 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
48 Safe Investment Co	See plat for St 11	11	Safe Investment Co		5	25	1914 6 16 487353
49 State of Washington	See plat for St 11	11	State of Washington		11	21	1914 10 24 487353
50 Riley M. Newton	See plat for St 11	11	Riley M. Newton		11	21	1914 10 24 487353

NAME OF GRANTOR	MAP OR REF.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	NAME OF GRANTEE	ADDRESS OF GRANTEE	DATE MADE	ADDRESS FILE NO.
1 The Monitor Company, Inc. an Oregon Corp.	12375678910111213141516171819	1	The Monitor Company, Inc.		12 24 81	126290378
2 - do -		2				
3 - do -		3	The Monitor Company, Inc.		12 24 81	126290379
4 143		4	Monitor Equipment Corp.		10 7 83	131119091
5 - do -		5	Mite		11 7 81	131119140
6 - do -		6				
7 Paper Enterprise, Inc.		7				
8 - do -		8	Mite		1 10 81	131119155
9 - do -		9				
10 - do -		10				
11 - do -		11				
12 - do -		12	MILITARY COMPANY, INC.		8 2 81	131119158
13 - do -		13				
14 12		14	MILITARY COMPANY, INC.		8 2 81	131119158
15 - do -		15				
16 - do -		16				
17 - do -		17				
18 - do -		18				
19 - do -		19				
20 - do -		20				
21 - do -		21				
22 - do -		22				
23 - do -		23				
24 - do -		24				
25 - do -		25				
26 - do -		26				
27 - do -		27				
28 - do -		28				
29 - do -		29				
30 - do -		30				
31 - do -		31				
32 - do -		32				
33 - do -		33				
34 - do -		34				
35 - do -		35				
36 - do -		36				
37 - do -		37				
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39 - do -		39				
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41 - do -		41				
42 - do -		42				
43 - do -		43				
44 - do -		44				
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49 - do -		49				
50 - do -		50				
51 - do -		51				
52 - do -		52				

THE CITY OF SEATTLE

River Park

ADDITION BLOCK No. 5

PLATTED BY

PLAT BOOK VOL. 7 PAGE 41 FILED FOR RECORD

PLAT	PART OF LOT	Area of Lot	Area of Addition	Area of Block	NAME OF DONOR	NAME OF GRANTEE	AMOUNT OF GRANT
1 12345678910						Addie Harburton Brantigan	
2						H. D. Lambirth	
3						Corlene Klum Tolland et al.	
4						Reliance Loan & Trust Co	
5						J. A. White	
6						M. O. Feltus	
7						Pat. J. J. J.	
8						J. J. J.	
9						J. J. J.	
10						J. J. J.	
11						Uphonse European	
12						Food Warehouse	
13						P. H. Moran	
14						Snacks Inc	
15						Citizens Bank of Cleveland	
16						King County	
17							
18							
19							
20						City of Seattle	STREET PURPOSE
21						And of Foute	
22						City of Seattle	
23						E. W. Sather	1303-47th SW
24							
25						J. A. Post	
26							
27						E. W. Sather	
28						Charles L. Wiedehell	of Hazel St.
29							
30						City of Seattle	
31						Carl Anderson & Blanche	
32						Charles L. Wiedehell	of Hazel St.
33							
34						State of Wash.	County State Highway
35							
36							
37							
38							
39						William C. Pione	
40						Richard B. Rice	
41						Brockbank Transfer Co.	
42						King Dunham	
43						Chester B. Rice	
44						Clara B. Rice	
45						Marian H. Sather	
46						Marian H. Sather	
47							
48						George W. Post	
49							
50							

THE CITY OF SEATTLE

Revised 1916

ADDITION BLOCK No. 5

PLATTED BY

PLAT BOOK VOL. 7 PAGE 41 FILED FOR RECORD

PART OF LOT	Name of Grantor	Date of Grant	Book	Page	NAME OF GRANTEE	ADDRESS OF GRANTEE
1234	W.D. 118 66 177494	118 66 177494			Edith Sherora Westland	De Witt C. Kiley, etc.
1234	W.D. 114 66 22 66 5992679	114 66 22 66 5992679			George W. Fouts, agent	Levon P. Litwinty & John & Joy, both med.
1234	W.D. 813 69 825 69 6555600	813 69 825 69 6555600			Edith Sherora Westland, Kingdon (King) J. Dumban & Garfield, Inc.	De Witt Kiley, Carolyn K. Peterson, Victor W. Westland, Carl A. Westland
1234	W.D. 1027 69 11 69 6585240	1027 69 11 69 6585240			Richard B. Rice & Selma	Richard B. Walters & Phyllis A. Huff
1234	Q.C. 51 70 414 70 6650309	51 70 414 70 6650309			Clifton D. Rice, Inc.	Richard B. Walters & Phyllis A. Huff
1234	W.D. 923 71 71 10 30 0339	923 71 71 10 30 0339			Overland Transfer Co., Inc.	Victor W. Westland & Carl A. Westland, their executors
1234	W.D. 42 70 6 70 4 30 0388	42 70 6 70 4 30 0388			24 among Victor B. Gray	D. Lee Morris & Elvira Ann, Huff
1234	W.D. 227 70 750 71 40 330	227 70 750 71 40 330			Reggie Litwinty	Frank B. De Bruyn & company
1234	Q.C. 915 76 7610 200307	915 76 7610 200307			Lyman J. Alcockland	Victor W. Westland, agent
1234	W.D. 54 77 77050 40866	54 77 77050 40866			Phyllis O. Walters	Richard B. Walters
1234	W.D. 737 78 780703 0740	737 78 780703 0740			24 among Phyllis O. Walters	D. Lee Morris & Elvira Ann
1234	W.D. 110 79 790316 0311	110 79 790316 0311			10	Tyrone Long & Anne L.
1234	W.D. 374 80 80 0402 0174	374 80 80 0402 0174			11 among Phyllis O. Walters	8001 Street Associates
1234	W.D. 42 80 20 84 14 0289	42 80 20 84 14 0289			24 among Phyllis O. Walters	Phyllis O. Walters
1234	W.D. 44 81 31 41 0529	44 81 31 41 0529			Phyllis O. Walters	Frank D. Huff
1234	W.D. 425 81 31 0507 0299	425 81 31 0507 0299			24 among Phyllis O. Walters	Harold L. Fuller & John B., Huff
1234	W.D. 31 85 35 03 22 0803	31 85 35 03 22 0803			Phyllis O. Walters	Roy W. Sandquist & Frank Sandquist
1234	W.D. 626 86 06 06 670 2020	626 86 06 06 670 2020			Phyllis O. Walters	Phyllis O. Walters
1234	W.D. 927 88 88 01 30 0984	927 88 88 01 30 0984			Phyllis O. Walters	City of Seattle
1234	W.D. 109 89 11 10 04 0897	109 89 11 10 04 0897			Phyllis O. Walters	Tyrone Long & Anne L. Long
1234	W.D. 11 20 91 11 12 14 0924	11 20 91 11 12 14 0924			Phyllis O. Walters	Phyllis O. Walters

Attachment 2
Warranty Deeds and Real Estate Records

5395825

RECORDED
VOL. 4249
PAGE 232 REQUEST OF

1952 MAR 7 PM 1 29

ROBERT A. MORRIS AUDITOR
KING COUNTY, WASH.
DEPUTY

FILED for Record at Request of

Name Mr. L. J. Dunham
Address 5533 A. Valley

WASHINGTON
TITLE INSURANCE
COMPANY
SEATTLE WASHINGTON

Made in
Presence of
Statement to
Low

Additional file No. 5395825

Statutory Warranty Deed

Form 188

Statutory Warranty Deed

THE GRANTOR S, CLARENCE L. WIEDERHOLD AND HAZEL N. WIEDERHOLD, his wife
for and in consideration of Ten Dollars and other valuable consideration
in hand paid, conveys and warrants EIRO DUNHAM and MARGARET DUNHAM, his wife

the following described real estate, situated in the County of King, State of Washington

Parcel one- (1)
South fifty (50) feet of vacated Block One (1) measured along the West line lying West of West Marginal Way, and the North one-half of vacated Orchard Street, now Rose Street, ALL in South Park Addition, according to plat thereof recorded in volume 4 of plats, page 87, records of said county.
Parcel two (2)-
Lots one (1), two (2), three (3) and four (4), Block five (5), River Park Addition according to plat thereof recorded in volume 7 of plats, page 41, records of said county.

Subject to any unpaid charges for water furnished to said premises by the City of Seattle or for installation of water or sewer service by said city.



6.05
5.50



This deed is given in fulfillment of a real estate contract of sale dated March 25, 1953 and is accepted by the purchaser as such, and is subject to ~~any taxes or assessments that have accrued against said property since said date and is also subject to any liens or encumbrances that may have been placed on the property through the acts of the grantee.~~

Dated this twenty-fifth day of March 1953.

SALES TAX PAID ON CONTRACT AFF. No. 11511
A.A. BREMPER, KING COUNTY TREASURER

BY M. E. Eganovich DEPUTY

STATE OF WASHINGTON,
County of King

Clarence L. Wiederhold (REAL)
CLARENCE L. WIEDERHOLD
Hazel M. Wiederhold (REAL)
HAZEL M. WIEDERHOLD

On this day personally appeared before me CLARENCE L. WIEDERHOLD and HAZEL N. WIEDERHOLD, his wife to me known to be the individuals described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 25th day of March 1953.

Albert A. Bremer
Notary Public and for the State of Washington,
Seattle.

Pioneer-National
Title Insurance Company
WASHINGTON TITLE DIVISION

REAL ESTATE CONTRACT

THIS CONTRACT, made and entered into this 24th day of September, 1970

between KING DUNHAM and MARGARET DUNHAM, his wife

hereinafter called the "seller," and HUGH S. FERGUSON CO., Inc, a Washington Corporation

hereinafter called the "purchaser."

WITNESSETH: That the seller agrees to sell to the purchaser and the purchaser agrees to purchase from the seller the following described real estate, with the appurtenances, in King County, State of Washington:

The south 50 feet of vacated Block 1, measured along the west line, lying west of West Marginal Way and the north half of vacated Orchard Street (now Rose Street), all in South Park Addition, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington.

The terms and conditions of this contract are as follows: The purchase price is Nine Thousand Nine Hundred Sixty and no/100 \$ 9,960.00 Dollars, of which Two Thousand Eight Hundred Sixty and no/100 \$ 2,860.00 Dollars have been paid, the receipt whereof is hereby acknowledged, and the balance of said purchase price shall be paid as follows:

One Hundred Twenty and no/100	\$ 120.00	Dollars
or more at purchaser's option, on 2nd day of January		1971
and One Hundred Twenty and no/100	\$ 120.00	Dollars
of more at purchaser's option, on or before the 1st day of each succeeding calendar month until the balance of said purchase price shall have been fully paid.		

The purchaser further agrees to pay interest on the diminishing balance of said purchase price at the rate of 7 1/2 per cent per annum from the 1st day of October, 1970 which interest shall be deducted from each installment payment and the balance of each payment applied in reduction of principal. All payments to be made hereunder shall be made at or at such other place as the seller may direct in writing.

Purchaser agrees to make no payments on the principal balance due on this contract during the year 1970; and
Purchaser further agrees to make an additional payment of \$2,000.00 on January 1, 1971.

As referred to in this contract, "date of closing" shall be October 1, 1970



(1) The purchaser assumes and agrees to pay before delinquency all taxes and assessments that may be levied on or against the real estate, and if by the terms of this contract the purchaser has assumed the payment of any taxes or assessments on the real estate, the purchaser agrees to pay the same before delinquency.

(2) The purchaser agrees, until the purchase price is fully paid, to keep the buildings now and hereafter placed on said real estate insured to the actual cash value thereof against loss or damage by both fire and windstorm in a company acceptable to the seller and for the seller's benefit, as his interest may appear, and to pay all premiums therefor and to deliver all policies and renewals thereof to the seller.

(3) The purchaser agrees that full inspection of said real estate has been made and that neither the seller nor his assigns shall be held to any covenant or agreement for additions, improvements or repairs unless the covenant or agreement relied on is contained herein or is in writing and attached hereto as a part of this contract.

(4) The purchaser assumes all liability for any damage to or destruction of any improvements now or hereafter placed on said real estate or the taking of said real estate or any part thereof for public use, and agrees that in such damage, destruction or taking shall constitute a failure of consideration. In case any part of said real estate is taken for public use, the portion of the condemnation award remaining after payment of reasonable expenses of procuring the same shall be paid to the seller and applied as payment on the purchase price herein unless the seller elects to allow the purchaser to apply all or a portion of such condemnation award to the rebuilding or restoration of any improvements damaged by such taking. In case of damage or destruction from a peril insured against, the proceeds of such insurance recovery after payment of the reasonable expense of procuring the same shall be devoted to the restoration or rebuilding of such improvements, within a reasonable time, unless purchaser elects that said proceeds shall be paid to the seller for application on the purchase price herein.

(5) The seller has delivered, or agrees to deliver within 45 days of the date of closing, a purchaser's policy of title insurance in standard form, or a modification thereof, issued by Pioneer National Title Insurance Company, insuring the purchaser to the full amount of said purchase price against loss or damage by reason of defect in seller's title to said real estate as of the date of closing and containing no exceptions other than the following:

- a. Printed general exceptions appearing in said policy form;
- b. Liens or encumbrances which by the terms of this contract the purchaser is to assume, or as to which the conveyance hereunder is to be made subject; and
- c. Any existing contract or contracts under which seller is purchasing said real estate, and any mortgage or other obligation, which seller by this contract agrees to buy, none of which for the purpose of this paragraph (5) shall be deemed defects in seller's title.

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6-25-71

(6) If seller's title to said real estate is subject to an existing contract or contracts under which seller is purchasing said real estate, or any mortgage or other obligation, which seller is to pay, seller agrees to make such payments in accordance with the terms thereof, and upon default, the purchaser shall have the right to make any payments necessary to remove the default, and any payments so made shall be applied to the payments hereunder due the seller under this contract.

(7) The seller agrees, upon receiving full payment of the purchase price and interest in the manner above specified, to execute and deliver to purchaser a statutory warranty deed to said real estate, accepting any part thereof hereafter taken for public use, free of encumbrances except any that may attach after date of closing through any person other than the seller, and subject to the following:

Assessments, restrictions and reservations of record.

(8) Unless a different date is provided for herein, the purchaser shall be entitled to possession of said real estate on date of closing and to retain possession so long as purchaser is not in default hereunder. The purchaser covenants to keep the buildings and other improvements on said real estate in good repair and not to permit waste and not to use, or permit the use of, the real estate for any illegal purpose. The purchaser covenants to pay all service, installation or construction charges for water, sewer, electricity, garbage or other utility services furnished to said real estate after the date purchaser is entitled to possession.

(9) In case the purchaser fails to make any payment herein provided or to maintain insurance, as herein required, the seller may make such payment or effect such insurance, and any amounts so paid by the seller together with interest at the rate of 10% per annum thereon from date of payment until repaid, shall be repayable by purchaser on seller's demand, all without prejudice to any other right the seller might have by reason of such default.

(10) Time is of the essence of this contract, and it is agreed that in case the purchaser shall fail to comply with or perform any condition or agreement hereof or to make any payment required hereunder promptly at the time and in the manner herein required, the seller may elect to declare all the purchaser's rights hereunder terminated, and upon his doing so, all payments made by the purchaser hereunder and all improvements placed upon the real estate shall be forfeited to the seller as liquidated damages, and the seller shall have right to re-enter and take possession of the real estate, and no waiver by the seller of any default on the part of the purchaser shall be construed as a waiver of any subsequent default.

Service upon purchaser of all demands, notices or other papers with respect to forfeiture and termination of purchaser's rights may be made by United States Mail, postage pre-paid, return receipt requested, directed to the purchaser at his address last known to the seller.

(11) Upon seller's election to bring suit to enforce any provision of this contract, including suit to collect any payment required hereunder, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, which sum shall be included in any judgment or decree entered in such suit.

If the seller shall bring suit to procure an adjudication of the termination of the purchaser's rights hereunder, and judgment is so entered, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, and also the reasonable cost of searching records to determine the condition of title at the date such suit is commenced, which sum shall be included in any judgment or decree entered in such suit.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the first day written above.

By *[Signature]* King Dunnham (REAL)
By *[Signature]* Margaret Dunham (REAL)
By *[Signature]* (REAL)
By *[Signature]* (REAL)

STATE OF WASHINGTON

County of King

On this day personally appeared me King Dunnham and Margaret Dunham

to me known to be the individual so described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free, full, voluntary act and deed, for the uses and purposes therein contained.

GIVEN under my hand and official seal this

day of September, 1970

[Signature]
Notary Public in and for the State of Washington

Residing at Seattle



FILED for Record at Request of
SECURITY TITLE INS CO.
SEATTLE, WASH



TO PLEASE MAIL
EWING & CLARK INC
133 DEXTER NO
SEATTLE, WASH 98109

Pioneer National Title Insurance Company
WASHINGTON TITLE DIVISION
Filed for Record at Request of



66495678
7-79

28/ 10/ 3, 5
20--

REAL ESTATE CONTRACT

For Unimproved Property

THIS CONTRACT, made this 15th day of January, 1975 between

HUGH S. FERGUSON CO., INC., a Washington corporation hereinafter called the "seller" and
TYNOR H. LONG and ANNE L. LONG, his wife hereinafter called the "purchaser,"

WITNESSETH: The seller agrees to sell to the purchaser, and the purchaser agrees to purchase of the

seller the following described real estate with the appurtenances, situate in King County, Washington:

The south 50 feet of the vacated Block 1, measured along the west line, lying west of West Marginal Way and the north half of vacated Orchard Street (now Rose Street), All in South Park Addition according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington, containing 11,000 square feet more or less.

Free of encumbrances except that until June 30, 1975 seller reserves the right to continue to place fill material on the property consistent with the manner seller has previously followed; provided that the surface shall be reasonably graded and shall not be brought to a grade higher than 5th Ave. So. and seller shall indemnify and save purchaser harmless from all liabilities on account of such filling.

On the following terms and conditions: The purchase price is TWELVE THOUSAND AND NO/100----- (\$12,000.00) dollars, of which THREE THOUSAND FIVE HUNDRED AND NO/100----- \$3,500.00) dollars has been paid, the receipt whereof is hereby acknowledged, and the purchaser agrees to pay the balance of said purchase price as follows:

In monthly installments of One hundred seventy five dollars (\$175.00) or more at purchaser's option, including interest computed on diminishing principal balances at the rate of 8 1/2% per annum from date of this contract until the purchase price is fully paid, which installments shall be paid on or before the first day of each month commencing the first day of February 1975, and continuing until the purchase price with interest is fully paid.



The purchaser may enter into possession January 20, 1975

The property has been carefully inspected by the purchaser, and no agreements or representations pertaining thereto, or to this transaction, have been made, save such as are stated herein.

The purchaser agrees: to pay before delinquency all taxes and assessments assumed by him, if any, and any which may, as between grantor and grantee, hereafter become a lien on the premises; not to permit waste; and not to use the premises for any illegal purpose. If the purchaser shall fail to pay before delinquency any such taxes or assessments, the seller may pay them, and the amounts so paid shall be deemed part of the purchase price and be payable forthwith with interest at the rate of _____ per cent per annum until paid, without prejudice to any other right of the seller by reason of such failure.

The purchaser assumes all risk of the taking of any part of the property for a public use, and agrees that any such taking shall not constitute a failure of consideration, but all moneys received by the seller by reason thereof shall be applied as a payment on account of the purchase price, less any sums which the seller may be required to expend in procuring such moneys.

If seller's title to said real estate is subject to an existing contract or contracts under which seller is purchasing said real estate, or any mortgage or other obligation, which seller is to pay, seller agrees to make such payments in accordance with the terms thereof and upon default, the purchaser shall have the right to make any payments necessary to receive the deed, and any payments so made shall be applied to the payments now falling due the seller under this contract.

The seller agrees, upon full compliance by the purchaser with his agreements herein, to execute and

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750121002B

delivered to the purchaser a Statutory Warranty deed to the property, excepting any part which may have been condemned, free of incumbrances except those above mentioned, and any that may accrue hereafter through any person other than the seller.

The seller agrees to furnish a First National Title Insurance Company standard form, seller's title policy when the purchaser shall have paid nothing the title to and property with liability the same as the above purchase price. Free from incumbrances except any which are assumed by the purchaser or as to which the corporation hereunder is not to be subject.

Time is of the essence hereof, and in the event the purchaser shall fail to comply with or perform any condition or agreement hereof promptly at the time and in the manner herein required, the seller may elect to declare all of the purchaser's rights hereunder terminated. Upon the termination of the purchaser's rights, all payments made hereunder, and all improvements placed upon the premises shall be forfeited to the seller as liquidated damages, and the seller shall have the right to re-enter and take possession of the property; and if the seller after such forfeiture shall commence an action to procure an adjudication of the termination of the purchaser's rights hereunder, the purchaser agrees to pay the expense of searching the title for the purpose of such action, together with all costs and a reasonable attorney's fee.

Service upon purchaser of all demands, notices or other papers with respect to forfeiture and termination of purchaser's rights may be made by United States Mail, postage pre-paid, return receipt requested, directed to the purchaser at his address last known to the seller.

In Witness Whereof the parties have signed and sealed this contract the day and year first above written.

Hugh S. Ferguson Co., Inc.

By [Signature] (Seal)

By [Signature] (Seal)

By [Signature] (Seal)

By [Signature] (Seal)

Anne L. Long



STATE OF WASHINGTON

County of King

On this 15th day of January A. D. 19 75, before me, the undersigned, a Notary Public in and for the State of Washington duly commissioned and sworn personally appeared Hugh S. Ferguson and G. J. Colin to me known to be the President and Vice President ~~Secretary~~ respectively, of HUGH S. FERGUSON CO., INC.

the corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he ~~she~~ is authorized to execute the above instrument and that the seal affixed is the corporate seal of said corporation.

WITNESS my hand and official seal hereto affixed the 15th day of January and year in this certificate above written.



[Signature]
Notary Public in and for the State of Washington
Seattle



STATE OF WASHINGTON,

County of King

I, the undersigned, a notary public in and for the state of Washington, hereby certify that on this 20th day of January, 1935, personally appeared before me Agnes M. Long and
James W. Krauer
to me known to be the individual(s) described in and who executed the foregoing instrument, and acknowledged that they
signed and sealed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.
Given under my hand and official seal the day and year last above written.

James W. Krauer
Notary Public in and for the state of Washington,
Residing at Seattle

FILED for Record at Request of
SAFECO TITLE INS. CO.
SEATTLE, WASH.



RECORDED
 REQUEST BY
 75 JAN 21 AM 8 00
 ALFRED
 ELECTRIC CO. WA
 DEPUTY
 THIS SPACE RESERVED FOR RECORDS USE

TO
 10
 1935

Filed for Record at Request of
WASHINGTON TITLE DIVISION
Pioneer National Title Insurance Company



7501210028

RECORDED AT REQUEST OF
SAFECO TITLE INS. CO.
107 SECOND AVENUE
SEATTLE, WASH. 53101



SECURITY TITLE INSURANCE COMPANY
OF WASHINGTON

1101 5th Avenue, Seattle, Washington 98101

Filed for Record at Request of

MAIL TO:
SAFEED TITLE
EUGENE, OREG.

NAME _____

ADDRESS _____

CITY AND STATE _____

FILED for Record at Request of
SAFEED TITLE INS. CO.
SEATTLE, WASH.

THIS SPACE RESERVED FOR RECORDER'S USE

RECORDED

REQUEST OF

1975 FEB 25 AM 8 30

DIRECTOR
ELECTIONS, KING CO., WA
DEPUTY

7502250037

STATUTORY WARRANTY DEED

1101 5th Avenue, Seattle, Washington 98101

THE GRANTOR KING DUNHAM and MARGARET DUNHAM, his wife
for and in consideration of Ten Dollars and other considerations
in hand paid, conveys and warrants to UNITED S. FERGUSON CO., Inc., a Washington Corporation
as Grantee, the following described real estate, situated in the County of KING
State of Washington:

The south 50 feet of vacated Block 1, measured along the west line, lying
west of West Marginal Way and the north half of vacated Orchard Street
(now West Street), ALL in South Park Addition, according to plat recorded
in Volume 4 of Plats, page 87, in King County, Washington.

Subject to encumbrances, restrictions and reservations of record.

The Deed is given in fulfillment of that certain Real Estate Contract
dated September 24, 1970 between the Grantors herein as Sellers and the
Grantee herein as the Purchaser.

5122728

Will Jerry King

SAFEED TITLE INSURANCE COMPANY

Dated this 24th

day of September, 1970

King Dunham (SEAL)
Margaret Dunham (SEAL)

STATE OF WASHINGTON

County of KING

On this 24th day of September, 1970

before me, the

King Dunham and Margaret Dunham

as one known to be the individual described in and who executed the foregoing instrument, acknowledged to me
that they signed and acted this said instrument as their free and voluntary act and deed for the
purpose and purposes therein mentioned.

by my hand and official seal this 24th day of September, 1970

Laurence E. Child

Notary Public in and for the State of Washington,
residing at _____





**PIONEER NATIONAL
TITLE INSURANCE**

A TICOOR COMPANY

Filed for Record at Request of

7509100277

TO Suburban Lands, Inc.
245 N.W. Gilman Blvd.
Issaquah, Washington 98027

THIS SPACE RESERVED FOR RECORDER'S USE

RECORDED
SEP 10 1975
REQUEST UP

975 SEP 10 AM 8 30

DIRECTOR - NEHRUS
ELECTIONS - KING CO. WA
DEPUTY

FILED FOR RECORD AT REQUEST OF
PIONEER NAT'L TITLE INS. CO.
719 SECOND AVE
SEATTLE, WASHINGTON 98108

14 1826.53

REVENUE STAMPS



Quit Claim Deed

(CORPORATE FORM)

THE GRANTOR HUGH S. FERGUSON COMPANY, a Washington Corporation

for and in consideration of TEN DOLLARS and other valuable considerations

conveys and quit claims to THE ELLENSMOOD CORPORATION, a Washington corporation

the following described real estate, situated in the County of King

State of Washington including any interest therein which grantor may hereafter acquire:
as hereto attached:

The South 50 feet of vacated Block 1, measured along the West line, lying West of West Marginal Way and the North half of vacated Orchard Street (now Rose Street), All in South Park Addition, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington.

ALSO:

The South 235 feet of Tract 33 and the South 100 feet of Tract 32; EXCEPT the east 30 feet of Tract 32, conveyed to King County for road by deeds recorded under Auditor's File Nos. 1581145 and 2773610; Moore's Five Acre Tracts, according to plat recorded in Volume 9 of Plats, page 28, in King County, Washington.

ALSO:

Lots 1, 2, 3, 4, 5 and 6, in Block 2 of Boitano's Supplemental Addition to the City of Georgetown, as per plat recorded in Volume 14 of Plats, page 33, records of King County; EXCEPT that portion thereof condemned in King County Superior Court Cause No. 54054 for Ellis Avenue as provided by Ordinance No. 375 of the City of Georgetown; Situate in the City of Seattle County of King, State of Washington.

PORTION OF THIS DOCUMENT ARE POOR QUALITY FOR FILING

7509100277

IN WITNESS WHEREOF, said corporation has caused this instrument to be executed by its proper officers and its corporate seal to be hereunto affixed this 21st day of July, 1975

HUGH S. FERGUSON COMPANY

By *[Signature]* President

By *Robert B. Allison* Secretary

STATE OF WASHINGTON)

County of King)

On this 12 day of August, 1975, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared GENE J. COLEMAN and ROBERT B. ALLISON to me known to be the President and Secretary, respectively, of

HUGH S. FERGUSON COMPANY the corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were authorized to execute the said instrument and that the seal affixed is the corporate seal of said corporation.

Witness my hand and official seal hereto affixed the day and year first above written.

[Signature]
Notary Public in and for the State of Washington,
residing at *[Address]*





**PIONEER NATIONAL
TITLE INSURANCE**

A TICOR COMPANY

715 SECOND AVENUE • SEATTLE, WASHINGTON 98104 • TELEPHONE 802-8600

DISCLOSURE FORM

King County Ordinance No. 1490 requires the following disclosure or alternative waiver form be completed prior to entry into a binding agreement to purchase. Three copies of each disclosure or alternative waiver must be prepared. One copy shall be retained by the prospective vendor; one copy shall be retained by the prospective purchaser. If the prospective purchaser enters into a binding agreement to purchase, the vendor shall file the third copy with the King County Department of Records and Elections when other documents are recorded.

A violation by any vendor or vendor's agent of any provision of Ordinance No. 1490 may result in assessment of a civil penalty in an amount not to exceed \$750.00 for each violation.

NOTICE TO PURCHASER

If there is no reasonable access to a public sanitary sewer system from the parcel you are thinking of buying, you must install a private sewer system approved by the King County Department of Health in order to build a house or any structure which will be used for human habitation. No building permits are issued for parcels which cannot have access to approved public or approved private sewer systems. No permit will be issued for and no septic tank systems may be located on this parcel unless it has been subjected to a percolation test within one year prior to application for a building permit. Even if a timely percolation test has been made, no permit will be issued and no septic tank system may be located on this parcel if the Department of Health has not approved the plan for and approved the installation of the private sewer system. Before you enter into an agreement to purchase this parcel, you should contact the King County Department of Health to determine the procedures for installing a private sewer system.

Your seller may have had a percolation test made on the parcel by a registered civil or sanitary engineer or certificated sewage disposal system designer. If so, the facts and the conclusions of the test appear below.

SELLER'S REPRESENTATIONS

PERCOLATION TEST. Seller must complete either Statement A or Statement B as appropriate.

7509100277

A. My agent (Name of Agent) _____, a registered civil or sanitary engineer or certificated sewage disposal system designer, has conducted percolation tests on this parcel: (Legal Description)

The percolation test was conducted on (Date) _____. From the tests, my agent concluded that a septic tank system could _____ COULD NOT be installed on this parcel in conformance with standards set by King County and in effect at the date of the test.

I represent that the statements above are true.

Seller's Signature _____

Date _____

B. No percolation tests have been conducted on this parcel: (Legal Description)

I have no knowledge or information from which a determination can be made as to whether a septic tank system may be installed on this parcel, except as follows: (To be completed by seller).

I represent that the statements above are true.

Seller's Signature _____

Date _____

BUYER'S SIGNATURE

I have read this statement and understand its contents.

Prospective Purchaser's Signature _____

Date _____

WAIVER (IN THE ALTERNATIVE)

I have read this disclosure form and understand its contents. I waive vendor's disclosure:

Unconditionally

Upon the condition this sale will not be closed unless this parcel is subjected to a percolation test which meets the requirements of the King County Department of Health.

Prospective Purchaser's Signature _____

Aug 17 - 1975
Date



First American Title INSURANCE COMPANY

Filed for Record at Request of

Name VICTOR WESTLUND
Address St-1 Box 102
City and State TUMACUMET, WASH. 98563

THIS SPACE RESERVED FOR RECORDER'S USE
16901627
1976 OCT 20 AM 8 30
DIRECTOR
RECORDS & ELECTIONS
KING COUNTY, WASH.

200

7610200306

Quit Claim Deed

THE GRANTOR LAURA J. WESTLUND

for and in consideration of Ten Dollars and other good and valuable consideration conveys and quit claims to VICTOR W. WESTLUND, as his separate estate

the following described real estate, situated in the County of KING State of Washington, together with all after acquired title of the grantor(s) therein:

That portion of vacated Block 1, South Park, according to plat thereof recorded in Volume 4 of Plats, Page 87, lying westerly of West Marginal Way; Together with the North 1/2 of vacated Orchard Street (now Rose Street) adjoining said Block 1 on the south; and Together with the South 1/2 of vacated alley adjoining said Block 1 on the North; and EXCEPT the South 50 feet thereof.

And the Grantor, for herself, her heirs, legal representatives and assigns, hereby covenants with the grantee, his heirs and assigns, that she has not made, done, committed, executed or suffered, any act or acts, thing or things, whatsoever, by means of which the above described land, or the title thereto, or any part thereof, now is, or may at any time hereafter be, impeached, charged or encumbered in any manner whatsoever since April 22, 1976.

NO SALES TAX
\$375639
OCT 1 1978
OFFICE OF THE COMPTROLLER
1200 4th Ave. S. Washington
By _____

Dated this 13th day of September, 1976.

Laura J. Westlund
LAURA J. WESTLUND

STATE OF WASHINGTON, }
County of KING } ss.

On this day personally appeared before me LAURA J. WESTLUND

to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that she signed the same as her free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 13th day of September, 1976.

Paul J. ...
Notary Public in and for the State of Washington,
residing at *Bellevue*



SAFECO TITLE INSURANCE COMPANY
 1100 SECOND AVENUE SEATTLE, WASHINGTON 98101 822 8834

322339DN

THIS SPACE RESERVED FOR RECORDER'S USE

NOV 28 AM 8 30

ELECTION KING CO. WA
 COUNTY

Filed for Record at Request of

NAME People Mortgage Co
 ADDRESS 2238 2nd
 CITY AND STATE PO Box 1788
Seattle WA 98111
Alta Commercial Bank (old)

322339y 7911280421 21200

910.00

A2426729

500

Warranty Fulfillment Deed
 (CORPORATE FORM)

THE GRANTOR **HUGH S. FERGUSON CO., INC.**, a Washington corporation
 for and in consideration of **Ten Dollars and other good and valuable consideration**
 in hand paid, conveys and warrants to **TYRNN M. LONG and ANNE L. LONG, his wife**
 the following described real estate, situated in the County of **King**, State of **Washington**:

The south 50 Feet of the vacated Block 1, measured along the west line, lying west of West Marginal Way and the north half of vacated Orchard Street (now Rome Street) All in South Park Addition according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington, containing 11,000 square feet more or less.



RECORDED IN THE COUNTY OF KING, WA. E-229487
 KING CO. RECORDS DIVISION
 BY J. Tanshoff, DEPUTY

E-229487

This deed is given in fulfillment of that certain real estate contract between the parties hereto, dated **January 15, 1975**, and conditioned for the conveyance of the above described property, and the covenants of warranty herein contained shall not apply in any title, interest or encumbrance arising by, through or under the purchaser in said contract, and shall not apply to any taxes, assessments or other charges levied, assessed or becoming due subsequent to the date of said contract.

IN WITNESS WHEREOF, said corporation has caused this instrument to be executed by its proper officers and its corporate seal to be hereunto affixed this

By [Signature] of Hugh S. Ferguson Co., Inc.
 President
 By [Signature] Secretary

STATE OF WASHINGTON,
 County of **KING**

On this 16 day of JAN. 1975, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared HUGH S. FERGUSON and KEITH E. BARDWIN to me known to be the President and ASS'T. Secretary, respectively, of Hugh S. Ferguson Co. the corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that authorized to execute the said instrument and that the seal affixed is the corporate seal of said corporation.

Witness my hand and official seal here to affixed the day and year in this certificate above written.

[Signature]
 Notary Public in and for the State of Washington
 residing at Meese Island

EXECUTOR'S DEED

The Grantor, Chester D. McMillin, Executor of Estates of Clarence L. Wiederhold and Hazel M. Wiederhold, deceased, for and in consideration of the distribution of the estate of the decedents above-named conveys and quit claims to Victor W. Westlund and Earl A. Westlund, as their separate estates by inheritance, the following described real estate, situated in the County of King, State of Washington, including any interest therein, which grantor may hereafter acquire:

An undivided one-half interest in:

- (a) Lots 20 to 24, inclusive, Block 5, River Park, An Addition to Seattle, according to plat thereof recorded in Volume 7 of Plats, page 41
- (b) That portion of vacated Block 1, South Park, according to plat thereof recorded in Volume 4 of Plats, page 87, lying westerly of West Marginal Way; Together with the north one-half of vacated Orchard Street (now Rose Street) adjoining said Block 1 on the south; and Together with the south one-half of vacated alley adjoining said Block 1 on the north; and Except the south 50 feet thereof.

DATED this 1st day of May 1970.

Chester D. McMillin
Chester D. McMillin, Executor of Estates of Clarence L. Wiederhold and Hazel M. Wiederhold, deceased.

STATE OF WASHINGTON)
COUNTY OF KING) SS.

On this 1st day of May 1970, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared Chester D. McMillin, Executor of the Estates of Clarence L. Wiederhold and Hazel M. Wiederhold, deceased, to be known to be the individual described in and who executed the foregoing instrument, and acknowledged to me that he signed and sealed this said instrument as his free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 1st day of May 1970.

Arthur J. Logan
Notary Public in and for the State of Washington, residing at Seattle, Washington.



Filed for Record May 14 1970 1 AM
Records of *Earl A. Westlund*
EDWARD J. LOGAN, Recorder



First American Title INSURANCE COMPANY

169016-27

THIS SPACE RESERVED FOR RECORDER'S USE.

1976 20 AM 8 30

RECORDS & ELECTIONS KING COUNTY, WASH.

200

Filed for Record at Request of

Name VICTOR WESTLUND
Address RT 1 BOX 102
City and State TUMACAT, WASH 98551

7610200307

Quit Claim Deed

THE GRANTOR LAURA J. WESTLUND

for and in consideration of Ten Dollars and other good and valuable consideration conveys and quit claims to VICTOR W. WESTLUND, as his separate estate the following described real estate, situated in the County of KING State of Washington, together with all after acquired title of the grantor(s) therein:

Lots 20 to 24, inclusive. Block 5, River Park, An Addition to Seattle, according to plat thereof recorded in Volume 7 of Plats, page 41.

And the Grantor, for herself, her heirs, legal representatives and assigns, hereby covenants with the grantee, his heirs and assigns, that she has not made, done, committed, executed or suffered, any act or acts, thing or things, whatsoever, by means of which the above described land, or the title thereto, or any part thereof, now is, or may at any time hereafter be, impeached, charged or encumbered in any manner whatsoever since April 22, 1976.

NO SALES TAX
MT. NO. 157563R
1 1976
OFFICE OF THE COMPTROLLER

Dated this

day of September, 1976

Laura J. Westlund
LAURA J. WESTLUND

STATE OF WASHINGTON, }
County of KING }

On this day personally appeared before me LAURA J. WESTLUND

to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that she signed the same as her free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 23rd day of September, 1976

[Signature]
Notary Public in and for the State of Washington,
residing at [Address]

REAL ESTATE CONTRACT

A 23096 2/10
500
5

7902140440

THIS CONTRACT, made and entered into this 10th day of January, 1979

between VICTOR W. WESTLUND and EARL A. WESTLUND, EACH AS SEPARATE ESTATE, AS TO AN UNDIVIDED ONE-HALF INTEREST and MARCIA N. CAGLE, AS SEPARATE ESTATE, AS TO AN UNDIVIDED ONE-HALF INTEREST, WHO ACQUIRED TITLE AS MARCIA N. SATHER hereinafter called the "seller," and PHOENIX LONG and ANNE L. LONG, husband and wife

hereinafter called the "purchaser,"

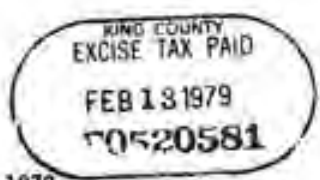
WITNESSETH: That the seller agrees to sell to the purchaser and the purchaser agrees to purchase from the seller the following described real estate, with the appurtenances, in KING County, State of Washington:

PARCEL A:
Lots 20 to 24, inclusive, Block 5, RIVER PARK, according to the plat recorded in Volume 7 of Plats, page 41, in King County, Washington, EXCEPT that portion lying within West Marginal Way South.

PARCEL B:
That portion of vacated Block 1, SOUTH PARK, according to the plat recorded in Volume 4 of Plats, page 87, in King County, Washington, lying Westerly of West Marginal Way; EXCEPT the South 50 feet thereof.

The terms and conditions of this contract are as follows: The purchase price is TWELVE THOUSAND NINE HUNDRED & NO/100--- (\$ 12,900.00---) Dollars, of which THREE THOUSAND TWO HUNDRED & NO/100--- (\$ 3,200.00---) Dollars have

been paid, the receipt whereof is hereby acknowledged, and the balance of said purchase price shall be paid as follows: TWO HUNDRED THREE & 73/100--- (\$203.73) Dollars, or more at purchaser's option, on or before the 14th day of March, 1979, and TWO HUNDRED THREE & 73/100--- (\$203.73) Dollars, or more at purchaser's option, on or before the 14th day of each succeeding calendar month until the balance of said purchase price shall have been fully paid. The purchaser further agrees to pay interest on the diminishing balance of said purchase price at the rate of 9.500 per cent per annum from the 14th day of February, 1979, which interest shall be deducted from each installment payment and the balance of each payment applied in reduction of principal.



All payments to be made hereunder shall be made at or at such other place as the seller may direct in writing. As referred to in this contract, "date of closing" shall be February 14, 1979

- (1) The purchaser assumes and agrees to pay before delinquency all taxes and assessments that may as between grantor and grantee hereafter become a lien on said real estate; and if by the terms of this contract the purchaser has assumed payment of any mortgage, contract or other encumbrance, or has assumed payment of or agreed to purchase subject to, any taxes or assessments now a lien on said real estate, the purchaser agrees to pay the same before delinquency.
- (2) The purchaser agrees, until the purchase price is fully paid, to keep the buildings now and hereafter placed on said real estate insured to the actual cash value thereof against loss or damage by both fire and windstorm in a company acceptable to the seller and for the seller's benefit, as his interest may appear, and to pay all premiums therefor and to deliver all policies and renewals thereof to the seller.
- (3) The purchaser agrees that full inspection of said real estate has been made and that neither the seller nor his assigns shall be held to any covenant respecting the condition of any improvements thereon nor shall the purchaser or seller or the assigns of either be held to any covenant or agreement for alterations, improvements or repairs unless the covenant or agreement relied on is contained herein or is in writing and attached to and made a part of this contract.
- (4) The purchaser assumes all hazards of damage to or destruction of any improvements now on said real estate or hereafter placed thereon, and of the taking of said real estate or any part thereof for public use; and agrees that in such damage, destruction or taking shall constitute a failure of consideration. In case any part of said real estate is taken for public use, the portion of the condemnation award remaining after payment of reasonable expenses of procuring the same shall be paid to the seller and applied as payment on the purchase price hereon unless the seller elects to allow the purchaser to apply all or a portion of such condemnation award to the rebuilding or restoration of any improvements damaged by such taking. In case of damage or destruction from a peril insured against, the proceeds of such insurance remaining after payment of the reasonable expense of procuring the same shall be devoted to the restoration or rebuilding of such improvements within a reasonable time, unless purchaser elects that said proceeds shall be paid to the seller for application on the purchase price hereon.
- (5) The seller has delivered, or agrees to deliver within 15 days of the date of closing, a purchaser's policy of title insurance as standard form, or a commitment therefor, issued by Phoenix National Title Insurance Company, insuring the purchaser to the full amount of said purchase price against loss or damage by reason of defect in seller's title to said real estate as of the date of closing and containing no exceptions other than the following:
 - a. Printed general exceptions appearing in said policy form;
 - b. Liens or encumbrances which by the terms of this contract the purchaser is to assume, or as to which the conveyance hereunder is to be made subject; and
 - c. Any existing contract or contracts under which seller is purchasing said real estate, and any mortgage or other obligation, which seller by this contract agrees to pay, none of which for the purpose of this paragraph (5) shall be deemed defects in seller's title.

(6) If seller's title to said real estate is subject to an existing contract or contracts under which seller is purchasing said real estate, or any mortgage or other obligation, which seller is to pay, seller agrees to make such payments in accordance with the terms thereof, and upon default, the purchaser shall have the right to make any payments necessary to remove the default, and any payments so made shall be applied to the payments next falling due the seller under this contract.

(7) The seller agrees, upon receiving full payment of the purchase price and interest in the manner above specified, to execute and deliver to purchaser a statutory warranty deed to said real estate, excepting any part thereof hereafter taken for public use, free of encumbrances, except any that may attach after date of closing through any person other than the seller, and subject to the following:

SUBJECT TO: Restrictions, reservations, easements, covenants, conditions, agreements and slope rights of record.

7902140940

(8) Unless a different date is provided herein, the purchaser shall be entitled to possession of said real estate on date of closing and to retain possession so long as purchaser is not in default hereunder. The purchaser covenants to keep the buildings and other improvements on said real estate in good repair and not to permit waste and not to use, or permit the use of, the real estate for any illegal purpose. The purchaser covenants to pay all service, installation or construction charges for water, sewer, electricity, garbage or other utility services furnished to said real estate after the date purchaser is entitled to possession.

(9) In case the purchaser fails to make any payment herein provided or to maintain insurance, as herein required, the seller may make such payment or effect such insurance, and any amounts so paid by the seller, together with interest at the rate of 10% per annum thereon from date of payment until repaid, shall be repayable by purchaser on seller's demand, all without prejudice to any other right the seller might have by reason of such default.

(10) Time is of the essence of this contract, and it is agreed that in case the purchaser shall fail to comply with or perform any condition or agreement hereof or to make any payment required hereunder promptly at the time and in the manner herein required, the seller may elect to declare all the purchaser's rights hereunder terminated, and upon his doing so, all payments made by the purchaser hereunder and all improvements placed upon the real estate shall be forfeited to the seller as liquidated damages, and the seller shall have right to re-enter and take possession of the real estate; and no waiver by the seller of any default on the part of the purchaser shall be construed as a waiver of any subsequent default.

Service upon purchaser of all demands, notices or other papers with respect to forfeiture and termination of purchaser's rights may be made by United States Mail, postage pre-paid, return receipt requested, directed to the purchaser at his address last known to the seller.

(11) Upon seller's election to bring suit to enforce any covenant of this contract, including suit to collect any payment required hereunder, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, which sums shall be included in any judgment or decree entered in such suit.

If the seller shall bring suit to procure an adjudication of the termination of the purchaser's rights hereunder, and judgment is entered, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, and also the reasonable cost of searching records to determine the condition of title at the date such suit is commenced, which sums shall be included in any judgment or decree entered in such suit.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date last written above.

John Long
 JOHN LONG
Arne L. Long
 ARNE L. LONG

Victor M. Westlund
 VICTOR M. WESTLUND (SAL)
Earl A. Westlund
 EARL A. WESTLUND (SAL)
 X
 X

MARCIA N. CAGLE, by Jon W. Sather, as her attorney-in-fact

STATE OF WASHINGTON,

County of King

On this day personally appeared before me *Victor M. Westlund & Earl A. Westlund* }
 in me known to be the individual *Victor M. Westlund & Earl A. Westlund* }
 described in and who executed the within and foregoing instrument, and acknowledged that }
 they signed the same as *their* free and voluntary act and deed, for the uses and purposes }
 herein mentioned. }

GIVEN under my hand and official seal this

6th day of *February*, 1975
Leslie S. Sather
 Notary Public in and for the State of Washington
 residing at *Kingston*

Z30290-DN



A TICO COMPANY

Filed for Record at Request of

AFTER RECORDING MAIL TO:
 PIONEER NATIONAL TITLE INSURANCE

719 SECOND AVENUE

SEATTLE, WA 98101

THIS SPACE RESERVED FOR RECORDER'S USE

1975 FEB 14 AM 9:30

055

7902140940

County of Frank

On this 26th day of January
Public in and for the State of Washington
JON W. SATHEN

1979, before me, the undersigned, a Notary
duly commissioned and sworn personally appeared

to me known to be the individual who executed the foregoing instrument as attorney in fact of MARCIA N. CAGLE

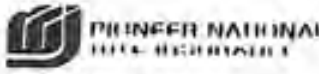
therein described, and acknowledged to me that she signed and sealed the said instrument as such attorney in fact for said principal, freely and voluntarily, for the uses and purposes therein mentioned, and on oath stated that the power of attorney authorizing the execution of this instrument has not been revoked and that the said MARCIA N. CAGLE

is now living.

WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

Sheila J. Wood
Notary Public in and for the State of Washington
residing at Bothell

(Acknowledgment by Attorney in Fact, Pioneer National Title Insurance Co. Form L 30)



Filed for Record at Request of

AFTER RECORDING MAIL TO:
Earl A. Westlund
12431 Kirkmont N.E.
Kirkland, Wa. 98033

KING COUNTY
NO EXCISE TAX
MAY 17 1983
E0721012

8305310842

Statutory Warranty Deed

FORM L58P

THE GRANTOR S, VICTOR W. WESTLUND and EARL A. WESTLUND, each as separate estate, as to an undivided one-half interest and MARCIA N. CAGLE, as separate estate, as to an undivided one-half interest, who acquired title as MARCIA N. SATHER for and in consideration of TEN AND NO/100TH'S DOLLARS (\$10.00)

in hand paid, conveys and warrants to TYRREN LONG AND ANNE L. LONG, Husband and Wife

the following described real estate, situated in the County of King, State of Washington:

PARCEL A:

Lots 20 to 24, inclusive, Block 5, RIVER PARK, according to the plat recorded in Volume 7 of Plats, page 41, in King County, Washington, EXCEPT that portion lying within West Marginal Way South.

PARCEL B:

That portion of vacated Block 1, SOUTH PARK, according to the plat recorded in Volume 4 of Plats, page 87, in King County, Washington, lying Westerly of West Marginal Way; EXCEPT the South 50 feet thereof.

MAY 31 1 35 PM '83

This deed is given in fulfillment of that certain real estate contract between the parties hereto, dated January 10, 1979, and conditioned for the conveyance of the above described property, and the covenants of warranty herein contained shall not apply to any title interest or encumbrance arising by, through or under the purchaser in said contract, and shall not apply to any taxes, assessments or other charges levied, assessed or becoming due subsequent to the date of said contract.

Real Estate Excise Tax was paid on this sale or stamped exempt on February 13, 1979, Rec. No. E#-520581

Dated this 10th day of January, 1979.

MARCIA N. CAGLE
BY [Signature]
HER ATTORNEY-IN-FACT
MARCIA N. CAGLE, by JON W. SATHER
her attorney-in-fact

[Signature] (S)SAL
Victor W. Westlund
[Signature] (S)SAL
Earl A. Westlund

STATE OF WASHINGTON,
County of King

On this day personally appeared before me [Signature] to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that [Signature] signed the same as [Signature] free and voluntary, and that, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this [Signature] day of [Signature]
Notary Public in and for the State of Washington,
residing at [Signature]

8305310542

The date 26th day of January
1979 in and for the State of Washington
JON W. SATHLER

A 1979 before me, the undersigned, a Notary
Public duly commissioned and sworn personally appeared

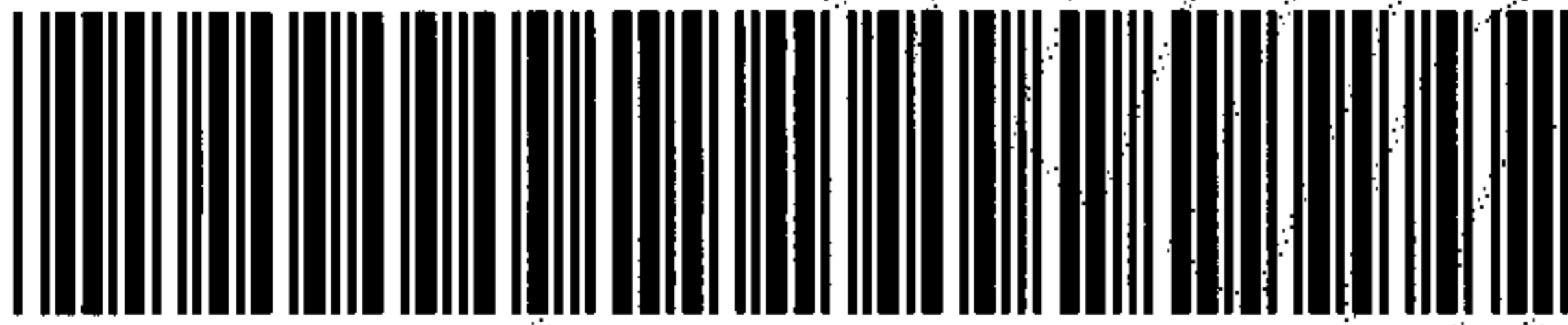
to me known to be the individual who executed the foregoing instrument as attorney in fact of _____
MARCIA S. CAGLE

therein described, and acknowledged to me that _____ he signed and sealed the said instrument as such attorney in fact
for said principal, freely and voluntarily, for the uses and purposes therein mentioned, and on oath stated that the power
of attorney authorizing the execution of this instrument has not been revoked and that the said
MARCIA S. CAGLE

_____ is now living.
WITNES my hand and official seal hereto affixed the day and year in this certificate first above written.

Shirley J. Wood
Notary Public in and for the State of Washington
residing at Cornell

(Acknowledgment by Attorney in Fact, Pioneer National Title Insurance Co. Form L 30)



199901190081

Unofficial
Document

After Filing Return To
Malcolm A Moore
Davis Wright Tremaine LLP
2600 Century Square
1501 Fourth Avenue
Seattle, Washington 98101-1688

SPECIAL WARRANTY DEED

Grantor:

Long, Anne L , individually and as personal representative of the Estate of
Tyrnn M Long

Grantee:

Long, Anne L , as her separate estate

Abbreviated Legal Description (lot, block and plat name, or section-township-range)

That portion of the following parcels lying west of the westerly margin of Primary State Highway No 1 (West Marginal Way), Lots 20 to 24, inclusive, Block 5, River Park, according to the plat thereof recorded in Volume 7 of Plats, page 41, in King County, Washington, vacated Block 1, vacated alley adjoining said Block 1 on the north, the north half of vacated Block 2, vacated Orchard Street (now Rose Street) lying between said Block 1 and said Block 2, and the north half of vacated alley adjoining lots platted as Lots 1 through 13, Block 2, all in South Park according to the plat thereof recorded in Volume 4 of Plats, page 87, in King County, Washington

Assessor's Property Tax Parcel Account Number(s): APN 788360-0005

F:\DOCS\44405\1\swd8 doc
Seattle 5

9901190081

10.00

SS

003

RECORDS

AM

07:29:00

0081

990119-0081

AM

KING COUNTY

RECORDS

003

SS

10.00

SPECIAL WARRANTY DEED

THE GRANTOR, Anne L Long, individually and as nonintervention personal representative of the estate of Tyrnn M Long, under King County, Washington Superior Court Cause No 96-4-05206-7 SEA, without consideration and in partial distribution of the estate, grants, bargains, sells, conveys and confirms to Anne L Long, as her separate estate, Grantee, the following described real estate situated in the County of King, State of Washington, together with all after acquired title of the Grantor therein

That portion of the following parcels lying west of the westerly margin of Primary State Highway No 1 (West Marginal Way), Lots 20 to 24, inclusive, Block 5, River Park, according to the plat thereof recorded in Volume 7 of Plats, page 41, in King County, Washington; vacated Block 1, vacated alley adjoining said Block 1 on the north, the north half of vacated Block 2, vacated Orchard Street (now Rose Street) lying between said Block 1 and said Block 2, and the north half of vacated alley adjoining lots platted as Lots 1 through 13, Block 2, all in South Park according to the plat thereof recorded in Volume 4 of Plats, page 87, in King County, Washington

The Grantor, for herself and for her successors in interest, does by these presents expressly limit the covenants of this deed to those herein expressed, and excludes all covenants arising or to arise by statutory or other implication, and does hereby covenant that, against all persons whomsoever lawfully claiming or to claim by, through or under said Grantor and not otherwise, she, as personal representative, will forever warrant and defend the said described real estate

9901190081

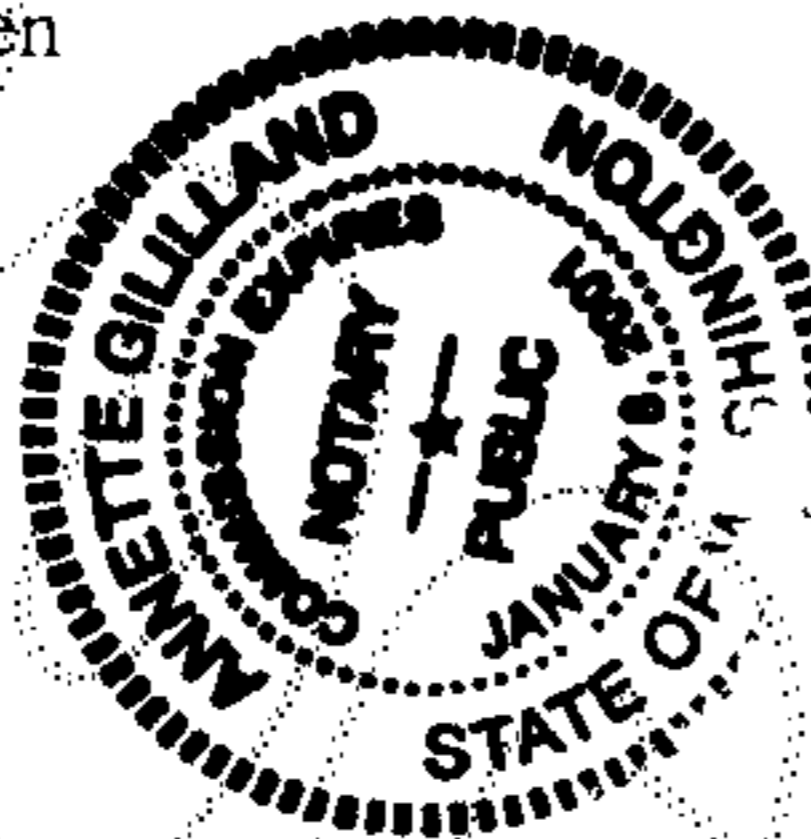
DATED January 13, 1999

Anne L Long
Anne L Long, individually and as personal
representative of the Estate of Tyrnn M Long

STATE OF WASHINGTON)
) ss
COUNTY OF KING)

On this 13th day of January, 1999, before me, a Notary Public in and for the State of Washington, personally appeared Anne L Long, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed this instrument and acknowledged it to be her free and voluntary act and deed, individually and as personal representative, for the uses and purposes mentioned in the instrument

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year first above written

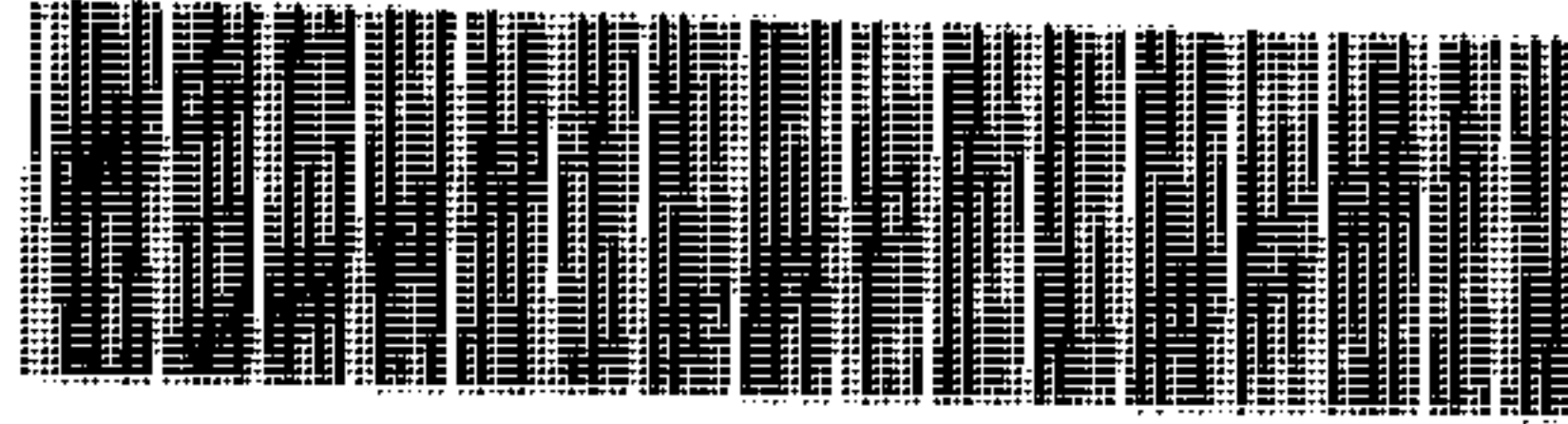


Annette Gilliland
NOTARY PUBLIC in and for the State of
Washington, residing at Edmonds
My appointment expires 1/8/2001
Print Name ANNETTE GILLILAND

9901190081

Return Address:

Mrs. Anne L. Long
17520 S.E. 60th
Bellevue, WA 98006-5910



PETER GULICK QCD 12.00

19991008000548

PAGE 001 OF 005
10/08/1999 10:00
KING COUNTY, WA

E1715018

10/08/1999 10:00
KING COUNTY, WA
TAX \$0.00
SALE \$0.00

PAGE 001 OF 004

Document Title(s): Quit Claim Deed

Grantor(s):

1. Anne L. Long, an unmarried person

Grantee(s):

1. Tytanic LLC, a Washington limited liability company

Legal Description:

1. Abbreviated form:

Por. Prentice Reserve, River Park, Vol. 7, p. 41.

Lots 5 to 8, 13 to 19, por. of Lot 20, Bl. 12; Lots 11 to 20, 38 to 46, Bl. 13; and Lots 20 to 24, Bl. 5, River Park, Vol.7, p.41.

Lots 9 to 16, Bl. 7, East South Park, Vol. 14, p. 13.

Vac. Block 1, Por. Vac. Block 2, Lots 1 to 13, Block 2, South Park, Vol. 4, p.87.

Por. G.L. 1, S.32, T.24, R.4 EWM.

2. Additional legal description is on Exhibit A, attached to this document

Assessor's Property Tax Parcel Account Number(s):

732790-6900-02; 732790-6930-04; 732790-7020-03; 732790-1045-07; 732790-1055-04; 732790-1095-06; 732790-1215-01; 732790-0915-06; 788360-0005-09; 218500-0590-09; 218500-0610-05; 322404-9002-09; 322404-9004-07 and 322404-9037-08.

ORIGINAL

QUIT CLAIM DEED

The Grantor, **Anne L. Long**, an unmarried person, for and in consideration of One Dollar and other consideration, conveys and quit claims to the **Tytanic LLC**, a Washington limited liability company, the real estate described on Exhibit A, attached hereto and made a part hereof as though here fully set forth, situated in the County of King, State of Washington, together with all after-acquired title to the Grantor therein.

DATED: October 1, 1999.

Anne L. Long

Anne L. Long

STATE OF WASHINGTON
COUNTY OF KING

I certify that I know or have satisfactory evidence that **Anne L. Long** is the person who appeared before me, and said person acknowledged that she signed this instrument and acknowledged it to be her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: October 1, 1999.

NOTARY PUBLIC
[Print or Type Notary Name Here]
STATE OF WASHINGTON
PETER V. GULICK
My Commission Expires Feb. 14, 2001

Peter V. Gulick

Peter V. Gulick
Notary Public
My appointment expires: 2/14/01

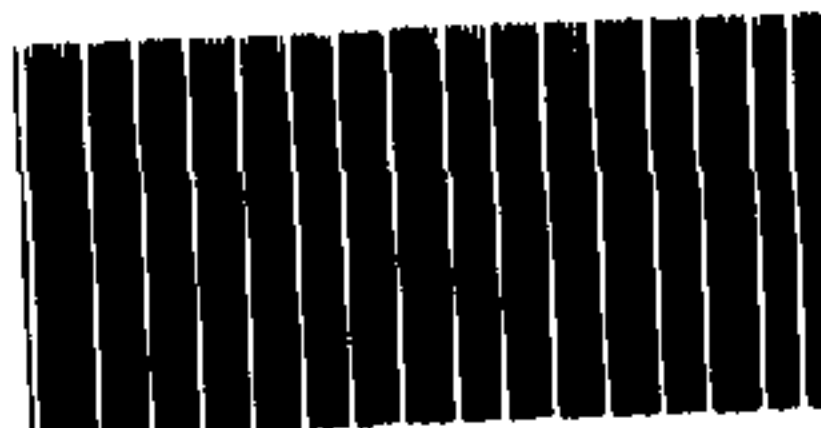


EXHIBIT A

8025 10th Avenue S. Parcel:

The south 260 feet of the Prentice Reserve and the west 100 feet of the north 100 feet of the south 360 feet of the Prentice Reserve and the south 120 feet of the north 360 feet of the east 300 feet of the west 400 feet of the Prentice Reserve, according to the plat of River Park Addition as recorded in Volume 7 of Plats, page 41, records of King County, Washington;
TOGETHER WITH an easement for road purposes over the south 22 feet of the north 251 feet of the west 400 feet of said Prentice Reserve as set forth in instrument recorded under King County Recording No. 8112040712.

10th and S. Dakota Parcel:

Lots 5, 6, 7 and 8, Block 12, River Park according to the Plat thereof recorded in Volume 7 of Plats, page 41, records of King County, Washington.

CP on South Elmgrove Parcel:

Lots 13 through 19, inclusive, and that portion of Lot 20 lying west of the west line of Government Lot 1, Section 32, Township 24 North, Range 4 East, W.M., in Block 12, River Park according to the Plat thereof recorded in Volume 7 of Plats, page 41, records of King County, Washington.
TOGETHER WITH Lot 9, Block 7, East South Park, according to the plat recorded in Volume 14 of Plats, page 13, records of King County, Washington.

TMF on S. Elmgrove Parcel:

Lots 11 through 20, inclusive, and Lots 38 through 46, inclusive, all in Block 13, River Park according to the Plat thereof recorded in Volume 7 of Plats, page 41, records of King County, Washington;
TOGETHER WITH the west 112.75 feet of the south 100 feet of the north 300 feet of Government Lot 1, Section 32, Township 24 North, Range 4 East, W.M.;
EXCEPT portions thereof condemned in King County Superior Court Cause No. 82673 for Commercial Waterway District No. 1.



5th Avenue S. Parcel:

That portion of the following parcels lying west of the westerly margin of Primary State Highway No. 1 (West Marginal Way):

Lots 20 to 24, inclusive, Block 5, River Park, according to the plat thereof recorded in Volume 7 of Plats, page 41, in King County, Washington;

Vacated Block 1, vacated alley adjoining said Block 1 on the north, the north half of vacated Block 2, vacated Orchard Street (now Rose Street) lying between said Block 1 and said Block 2, and the north half of vacated alley adjoining lots platted as Lots 1 through 13, Block 2, all in South Park according to the plat thereof recorded in Volume 4 of Plats, page 87, in King County, Washington.

1049 S. Elmgrove Parcel:

Lots 10, 11, 12 and 13, Block 7, East South Park, according to the plat thereof recorded in Volume 14 of Plats, page 13, records of King County, Washington.

1055 S. Elmgrove Parcel:

Lots 14, 15 and 16, Block 7, East South Park, according to the plat thereof recorded in Volume 14 of Plats, page 13, records of King County, Washington.

1046 S. Elmgrove Parcel:

The east 65 feet of the west 112.75 feet of the south 130 feet of the north 490 feet of Government Lot 1 in Section 32, Township 24 North, Range 4 East, W.M., in King County, Washington:

EXCEPT portion appropriated for commercial Waterway District No. 1, under Superior Court Cause No. 82673.

1054-56 S. Elmgrove Parcel:

That portion of Government Lot 1, Section 32, Township 24 North, Range 4 East, W.M., in King County, Washington, described as follows:

Beginning at point of intersection of the southwesterly line of right of way of Commercial Waterway District No. 1 and the centerline of Elmgrove Street as platted in East South Park, according to the plat thereof recorded in Volume 14 of Plats, page 13, records of King

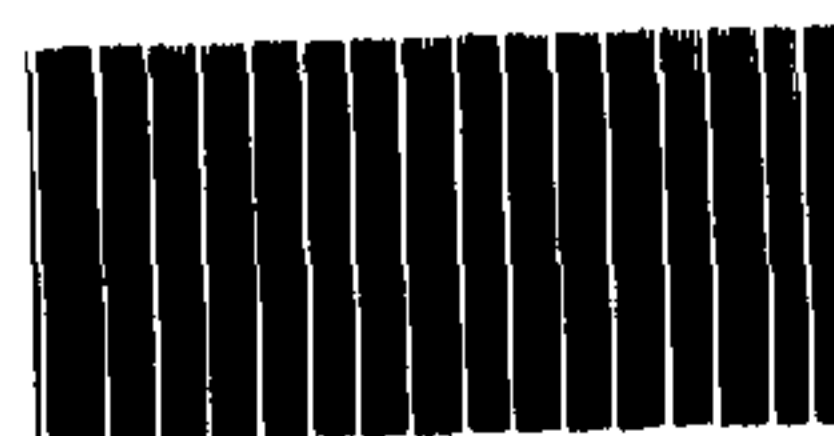


County, Washington, produced, said point being 44.199 feet west of the intersection of said centerline with the centerline of 12th Avenue South as platted in said East South Park; thence N89°23'W along said centerline of Elmgrove Street produced 55.801 feet; thence N0°39'34"E 47.462 feet to the southwesterly line of said Commercial Waterway District No. 1 right of way; thence S49°E 73.256 feet along said right of way line to point of beginning;

Also beginning at the northwest corner of said Government Lot 1; thence S0°39'34"W along the west line of said Government Lot, 490 feet; thence S89°23'E 112.75 feet to the true point of beginning; continuing thence S89°23'E 12.25 feet; thence north parallel to the west line of said Government Lot 46.66 feet to the southwesterly line of Commercial Waterway District No.1; thence along said southwesterly line N49°W 16.07 feet; thence south parallel to the west line of said Government Lot 57.79 feet to the true point of beginning.

8111 - 10th Avenue S. Parcel

The north 2 feet of Lot 2 and all of Lots 3 and 4, Block 10, River Park Addition according to the Plat thereof recorded in Volume 7 of Plats, page 41, records of King County, Washington.



CHICAGO TITLE INS. CO.
REF# 1348248-6

20121207001976
CHICAGO TITLE D
PAGE-001 OF 003
12/07/2012 14:40
KING COUNTY, WA
74.00

WHEN RECORDED RETURN TO
JYS4, LLC
1845 72ND AVENUE SE
MERCER ISLAND, WASHINGTON 98040

E2578094

12/07/2012 14:40
KING COUNTY, WA
TAX \$48,866.00
SALE \$2,745,000.00

PAGE-001 OF 001



CHICAGO TITLE COMPANY

001348248

BARGAIN AND SALE DEED

THE GRANTOR
TYTANIC LLC, A WASHINGTON LIMITED LIABILITY COMPANY

for and in consideration of TEN AND 00/100

Dollars (\$ 10.00)

in hand paid, bargains, sells, and conveys to
JYS4, LLC, A WASHINGTON LIMITED LIABILITY COMPANY

the following described real estate situated in the County of KING State of Washington:

THAT PORTION OF THE FOLLOWING PARCELS LYING WEST OF THE WESTERLY MARGIN OF
PRIMARY STATE HIGHWAY NO. 1 (WEST MARGINAL WAY):
LOTS 20 THROUGH 24, BLOCK 5, RIVER PARK, ACCORDING TO THE PLAT THEREOF,
RECORDED IN VOLUME 7 OF PLATS, PAGE 41, UNDER RECORDING NUMBER 72269, IN KING
COUNTY, WASHINGTON;
VACATED BLOCK 1, VACATED ALLEY ADJOINING SAID BLOCK 1 ON THE NORTH, THE NORTH
HALF OF VACATED BLOCK 2, VACATED ORCHARD STREET (NOW ROSE STREET) LYING
BETWEEN SAID BLOCK 1 AND BLOCK 2, AND THE NORTH HALF OF VACATED ALLEY
ADJOINING LOTS PLATTED AS LOTS 1 THROUGH 13, BLOCK 2, ALL IN SOUTH PARK,
ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 4 OF PLATS, PAGE 87, UNDER
RECORDING NUMBER 45931, IN KING COUNTY, WASHINGTON.

SUBJECT TO EXCEPTIONS SET FORTH ON ATTACHED EXHIBIT "A" AND BY THIS
REFERENCE MADE A PART HEREOF AS IF FULLY INCORPORATED HEREIN.

Abbreviated Legal: A PTN LOTS 22-24, BLK 5, VOL 7 OF PLATS, PG 41; & A PTN OF BLK 1 & BLK 2,
VOL 4 OF PLATS, PG 67

Tax Account Number: 788360-0005

Dated: DECEMBER 3, 2012

TYTANIC LLC

ANNE L. FAUST FORMERLY KNOWN AS
ANNE L. LONG

Anne L. Faust
ANNE L. LONG, CO-MANAGER

KATHLEEN M. LONG FORMERLY KNOWN AS
KATHLEEN M. SMITH

Kathleen M. Smith
KATHLEEN M. SMITH, CO-MANAGER

STATE OF ARIZONA ss Maricopa COUNTY OF FAUST
I CERTIFY THAT I KNOW OR HAVE SATISFACTORY EVIDENCE THAT ANNE L. ~~LONG~~
IS THE PERSON WHO APPEARED BEFORE ME, AND SAID PERSON ACKNOWLEDGED THAT
SHE SIGNED THIS INSTRUMENT, ON OATH STATED THAT SHE WAS AUTHORIZED TO
EXECUTE THE INSTRUMENT AND ACKNOWLEDGED IT AS CO-MANGER OF TYTANIC LLC
TO BE THE FREE AND VOLUNTARY ACT OF SUCH PARTY FOR THE USES AND
PURPOSES MENTIONED IN THE INSTRUMENT.

DATED: Dec 4, 2012



CATHY MORENO
Notary Public—Arizona
Maricopa County
Expires 08/06/2013

Cathy Moreno
NOTARY SIGNATURE

PRINTED NAME: Cathy Moreno
NOTARY PUBLIC IN AND FOR THE STATE OF ARIZONA
RESIDING AT 1412 E Wesleyan Dr. Tempe Az 85282
MY APPOINTMENT EXPIRES 8/6/13

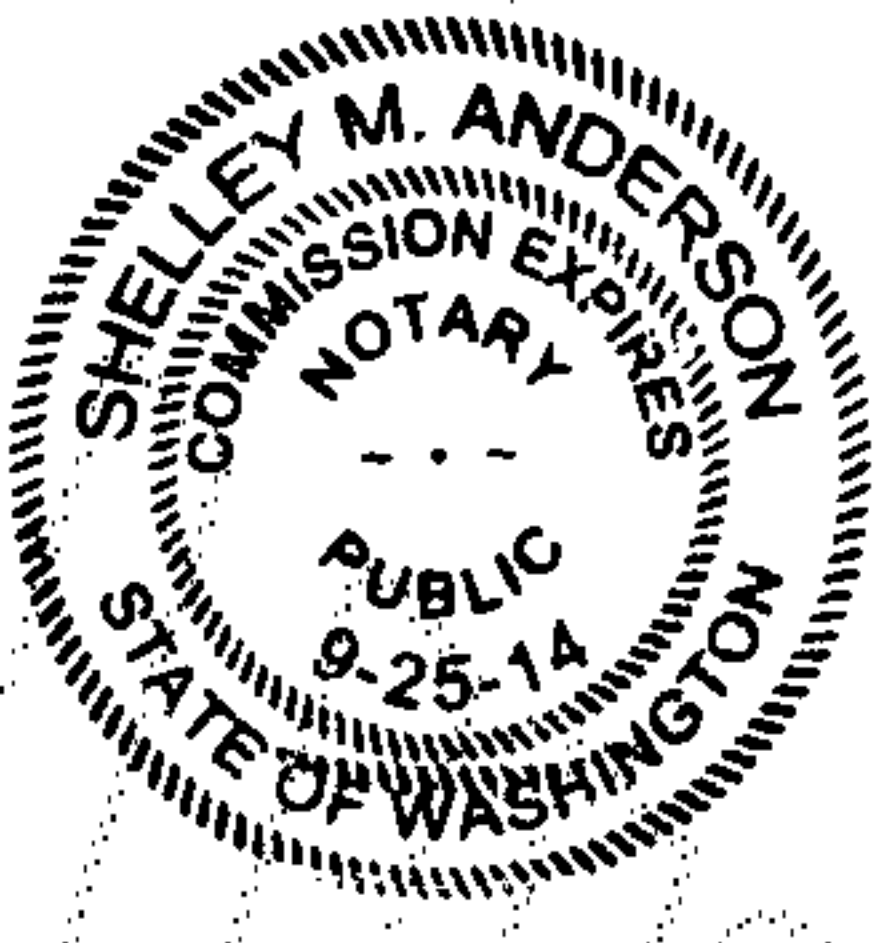
STATE OF WASHINGTON ss COUNTY OF KING

I CERTIFY THAT I KNOW OR HAVE SATISFACTORY EVIDENCE THAT KATHLEEN M. ~~SMITH~~
SMITH IS THE PERSON WHO APPEARED BEFORE ME, AND SAID PERSON
ACKNOWLEDGED THAT SHE SIGNED THIS INSTRUMENT, ON OATH STATED THAT SHE
WAS AUTHORIZED TO EXECUTE THE INSTRUMENT AND ACKNOWLEDGED IT AS
CO-MANAGER OF TYTANIC LLC TO BE THE FREE AND VOLUNTARY ACT OF SUCH
PARTY FOR THE USES AND PURPOSES MENTIONED IN THE INSTRUMENT.

DATED: 12/5/12

Shelley M. Anderson
NOTARY SIGNATURE

PRINTED NAME: Shelley M. Anderson
NOTARY PUBLIC IN AND FOR THE STATE OF WASHINGTON
RESIDING AT Seattle
MY APPOINTMENT EXPIRES 9/25/14



CHICAGO TITLE COMPANY

EXHIBIT A

Escrow No.: 1348248

SUBJECT TO:

EASEMENT CONDEMNED IN KING COUNTY SUPERIOR COURT AND THE TERMS AND CONDITIONS THEREOF:

IN FAVOR OF: MUNICIPALITY OF METROPOLITAN SEATTLE
PURPOSE: CONSTRUCTION, OPERATION, MAINTENANCE, REPAIR AND REPLACEMENT OF A SEWER INTERCEPTOR PIPELINE
AREA AFFECTED: A NORTHEASTERLY PORTION OF SAID PREMISES
CAUSE NUMBER: 85-2-18485-8

EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE: CITY OF SEATTLE, A MUNICIPAL CORPORATION
PURPOSE: STORM DRAIN, WITH NECESSARY APPURTENANCES
AREA AFFECTED: A PORTION OF SAID PREMISES LYING WITHIN BLOCK 5, RIVER PARK
RECORDED: JANUARY 30, 1989
RECORDING NUMBER: 8901300984

RELINQUISHMENT OF ACCESS TO STATE HIGHWAY NUMBER 1 AND OF LIGHT, VIEW AND AIR BY DEED TO THE STATE OF WASHINGTON:

RECORDED: NOVEMBER 14, 1958
RECORDING NUMBER: 4965539

CONDEMNATION OF ACCESS TO STATE HIGHWAY NUMBER 1 AND OF LIGHT, VIEW AND AIR BY KING COUNTY DECREE TO THE STATE OF WASHINGTON:

ENTERED: DECEMBER 10, 1957
SUPERIOR COURT CAUSE NUMBER: 515467

UNRECORDED LEASEHOLDS, IF ANY, RIGHTS OF VENDORS AND HOLDERS OF SECURITY INTERESTS ON PERSONAL PROPERTY INSTALLED UPON SAID PROPERTY AND RIGHTS OF TENANTS TO REMOVE TRADE FIXTURES AT THE EXPIRATION OF THE TERM.

MATTERS DISCLOSED BY A SURVEY OF SAID PREMISES BY BARGHAUSEN CONSULTING ENGINEERS, INC., DATED OCTOBER 5, 2012, UNDER JOB NO.15968 AS FOLLOWS:

- A. LOCATION OF FENCES IN RELATION TO THE WEST, NORTHEAST, AND SOUTH LINES OF THE LAND;
- B. ENCROACHMENT OF CONCRETE PAD 0.7 FEET WEST OF THE WEST LINE INTO THE RIGHT OF WAY OF 5TH AVENUE S;
- C. ENCROACHMENT OF FENCED AREAS 3.5 FEET WEST OF THE WEST LINE INTO THE RIGHT OF WAY OF 5TH AVENUE S;
- D. MAILBOXES ENCROACHMENT ACROSS THE WEST LINE ONTO THE LAND.

CHICAGO TITLE INS. CO. (10)
REF# 1348248-6

This instrument prepared by and
after recording return to:

Aaron D Walley
U.S. BANK N.A.
COLLATERAL DEPARTMENT
P. O. BOX 5308
PORTLAND OR 97228-5308



20121207001977
CHICAGO TITLE DT 226.00
PAGE-001 OF 010
12/07/2012 14:40
KING COUNTY, WA

0608849299

**WASHINGTON DEED OF TRUST, SECURITY AGREEMENT
AND ASSIGNMENT OF RENTS AND LEASES
(INCLUDING FIXTURE FILING UNDER UNIFORM COMMERCIAL CODE)**

Grantor(s): JYS4, LLC

Grantees: U.S. BANK N.A., as Beneficiary
U.S. BANK TRUST COMPANY, N.A., as Trustee

Legal Description: Ptn of Lots 22-24, Blk 5, Vol 7 of Plts, Pg 41, & a ptn of Blk 1
& 2, Vol 4 of Plts, pg 87

(Additional on page 2)

Assessor's Tax Parcel or Account Number: 788360-0005-09

Reference Number of documents assigned or released: NOT APPLICABLE

This Washington Deed of Trust, Security Agreement and Assignment of Rents and Leases (Including Fixture Filing Under Uniform Commercial Code) ("Deed of Trust ") is made and entered into by the undersigned borrower(s), guarantor(s) and/or other obligor(s)/pledgor(s) (collectively the "Grantor") in favor of U.S. BANK TRUST COMPANY, N.A., having a mailing address at 555 SW OAK, PORTLAND, OR 97204 (the "Trustee"), for the benefit of U.S. BANK N.A. (the "Beneficiary"), as of the date set forth below.

ARTICLE I. CONVEYANCE/MORTGAGED PROPERTY

1.1 Grant of Deed of Trust/Security Interest. IN CONSIDERATION OF FIVE DOLLARS (\$5.00) cash in hand paid by the Trustee to the Grantor, and the financial accommodations from the Beneficiary to the Grantor as described below, the Grantor has bargained, sold, conveyed and confirmed, and hereby bargains, sells, conveys and confirms, unto Trustee, its successors and assigns, for the benefit of the Beneficiary, the Mortgaged Property (defined below) to secure all of the Grantor's Obligations (defined below) to the Beneficiary. The intent of the parties hereto is that the Mortgaged Property secures all Obligations of the Grantor to the Beneficiary, whether now or hereafter existing, between the Grantor and the Beneficiary or in favor of the Beneficiary, including, without limitation, the Note (as herein defined) and, except as otherwise specifically provided herein, any loan agreement, guaranty, mortgage, trust deed, lease or other agreement, document or instrument, whether or not enumerated herein, which specifically evidences or secures any of the indebtedness evidenced by the Note (together and individually, the "Loan Documents"). The parties further intend that this Deed of Trust shall operate as a security agreement with respect to those portions of the Mortgaged Property which are subject to Article 9 of the Uniform Commercial Code.

1.2 "Mortgaged Property" means all of the following, whether now owned or existing or hereafter acquired by the Grantor, wherever located: all the real estate described below or in **Exhibit A** attached hereto (the "Land"), together with all buildings, structures, standing timber, timber to be cut, fixtures, equipment, inventory and furnishings used in connection with the Land and improvements; all materials, contracts, drawings and personal property relating to any construction on the Land; and all other improvements now or hereafter constructed, affixed or located thereon (the "Improvements") (the Land and the Improvements collectively the "Premises"); TOGETHER with any and all easements, rights-of-way, licenses, privileges, and appurtenances thereto, and any and all leases or other agreements for the use or occupancy of the Premises, all the rents, issues, profits or any proceeds therefrom and all security deposits and any guaranty of a tenant's obligations thereunder (collectively the "Rents"); all awards as a result of

condemnation, eminent domain or other decrease in value of the Premises and all insurance and other proceeds of the Premises.

The Land is described as follows (or in Exhibit A hereto if the description does not appear below):

See Attached Exhibit A

1.3 "Obligations" means all loans by the Beneficiary to JYS4, LLC

_____ including those loans evidenced by a note or notes dated
12/07/12, in the initial principal amount(s) of
\$1,400,000.00

and any extensions, renewals, restatements and modifications thereof and all principal, interest, fees and expenses relating thereto (the "Note"); and also means all the Grantor's debts, liabilities, obligations, covenants, warranties, and duties to the Beneficiary, whether now or hereafter existing or incurred, whether liquidated or unliquidated, whether absolute or contingent, which arise out of the Loan Documents, and principal, interest, fees, expenses and charges relating to any of the foregoing, including, without limitation, costs and expenses of collection and enforcement of this Deed of Trust, and attorneys' fees of both inside and outside counsel. The interest rate and maturity of such Obligations are as described in the documents creating the indebtedness secured hereby.

1.4 Homestead. The Premises are not the homestead of the Grantor. If so, the Grantor releases and waives all rights under and by virtue of the homestead exemption laws of the State of Washington.
(are)(are not)

1.5 Deed of Trust Secures Commercial Loan. The Grantor and the Beneficiary hereby agree that the Obligations secured by this Deed of Trust constitute a commercial loan and are not made primarily for personal, family or household purposes.

1.6 Mortgaged Property Not Agricultural Property. The Grantor hereby represents and warrants that the Mortgaged Property is not used primarily for agricultural purposes.

1.7 Deed of Trust Does Not Secure Environmental Indemnities. Notwithstanding anything to the contrary set forth herein or in any other Loan Document, this Deed of Trust shall not secure the obligations of the Grantor or any other obligor under that certain Unsecured Real Estate Environmental Indemnity dated as of even date herewith made by the Grantor in favor of the Beneficiary (the "Environmental Indemnity Agreement") or the substantial equivalent of the obligations arising under the Environmental Indemnity Agreement. All of such obligations (and the substantial equivalents thereof) shall constitute the separate, unsecured, full recourse obligations of the Grantor and any other obligor identified therein and shall not be deemed to be evidenced by the Note or secured by this Deed of Trust.

1.8 Construction Loan. If checked here, this Deed of Trust secures an obligation incurred for the construction of an improvement on land, including the acquisition cost of the land.

ARTICLE II. WARRANTIES AND COVENANTS

In addition to all other warranties and covenants of the Grantor under the Loan Documents which are expressly incorporated herein as part of this Deed of Trust, including the covenants to pay and perform all Obligations, and while any part of the credit granted the Grantor under the Loan Documents is available or any Obligations of the Grantor to the Beneficiary are unpaid or outstanding, the Grantor continuously warrants to the Beneficiary and the Trustee and agrees as follows:

2.1 Warranty of Title/Possession. The Grantor warrants that it has sole and exclusive title to and possession of the Premises, excepting only the following "Permitted Encumbrances": restrictions and easements of record, and zoning ordinances (the terms of which are and will be complied with, and in the case of easements, are and will be kept free of encroachments), taxes and assessments not yet due and payable and those Permitted Encumbrances set forth on Exhibit B attached hereto (except that if no Exhibit B is attached, there will be no additional Permitted Encumbrances). The lien of this Deed of Trust, subject only to Permitted Encumbrances, is and will continue to be a

valid first and only lien upon all of the Mortgaged Property.

2.2 Maintenance; Waste; Alteration. The Grantor will maintain the Premises in good and tenable condition and will restore or replace damaged or destroyed improvements with items of at least equal utility and value. The Grantor will not commit or permit waste to be committed on the Premises. The Grantor will not remove, demolish or materially alter any part of the Premises without the Beneficiary's prior written consent, except the Grantor may remove a fixture, provided the fixture is promptly replaced with another fixture of at least equal utility. The replacement fixture will be subject to the priority lien and security of this Deed of Trust.

2.3 Transfer and Liens. The Grantor will not, without the prior written consent of the Beneficiary, which may be withheld in the Beneficiary's sole and absolute discretion, either voluntarily or involuntarily (a) sell, assign, lease or transfer, or permit to be sold, assigned, leased or transferred, any part of the Premises, or any interest therein; or (b) pledge or otherwise encumber, create or permit to exist any mortgage, pledge, lien or claim for lien or encumbrance upon any part of the Premises or interest therein, except for the Permitted Encumbrances. Beneficiary has not consented and will not consent to any contract or to any work or to the furnishing of any materials which might be deemed to create a lien or liens superior to the lien of this Deed of Trust.

2.4 Escrow. After written request from the Beneficiary, the Grantor will pay to the Beneficiary sufficient funds at such time as the Beneficiary designates, to pay (a) the estimated annual real estate taxes and assessments on the Premises; and (b) all property or hazard insurance premiums when due. Interest will not be paid by the Beneficiary on any escrowed funds. Escrowed funds may be commingled with other funds of the Beneficiary. All escrowed funds are hereby pledged as additional security for the Obligations.

2.5 Taxes, Assessments and Charges. To the extent not paid to the Beneficiary under 2.4 above, the Grantor will pay before they become delinquent all taxes, assessments and other charges now or hereafter levied or assessed against the Premises, against the Beneficiary based upon this Deed of Trust or the Obligations secured by this Deed of Trust, or upon the Beneficiary's interest in the Premises, and deliver to the Beneficiary receipts showing timely payment.

2.6 Insurance. The Grantor will continually insure the Premises against such perils or hazards as the Beneficiary may require, in amounts, with acceptable co-insurance provisions, not less than the unpaid balance of the Obligations or the full replacement value of the Improvements, whichever is less. The policies will contain an agreement by each insurer that the policy will not be terminated or modified without at least thirty (30) days' prior written notice to the Beneficiary and will contain a mortgage clause acceptable to the Beneficiary; and the Grantor will take such other action as the Beneficiary may reasonably request to ensure that the Beneficiary will receive (subject to no other interests) the insurance proceeds from the Improvements. The Grantor hereby assigns all insurance proceeds to and irrevocably directs, while any Obligations remain unpaid, any insurer to pay to the Beneficiary the proceeds of all such insurance and any premium refund; and authorizes the Beneficiary to endorse the Grantor's name to effect the same, to make, adjust or settle, in the Grantor's name, any claim on any insurance policy relating to the Premises. The proceeds and refunds will be applied in such manner as the Beneficiary, in its sole and absolute discretion, determines to rebuilding of the Premises or to payment of the Obligations, whether or not then due and payable.

2.7 Condemnation. Any compensation received for the taking of the Premises, or any part thereof, by a condemnation proceeding (including payments in compromise of condemnation proceedings), and all compensation received as damages for injury to the Premises, or any part thereof, shall be applied in such manner as the Beneficiary, in its sole and absolute discretion, determines to rebuilding of the Premises or to payment of the Obligations, whether or not then due and payable.

2.8 Assignments. The Grantor will not assign, in whole or in part, without the Beneficiary's prior written consent, the rents, issues or profits arising from the Premises.

2.9 Right of Inspection. The Beneficiary may at all reasonable times enter and inspect the Premises.

2.10 Waivers by Grantor. To the greatest extent that such rights may then be lawfully waived, the Grantor hereby agrees for itself and any persons claiming under the Deed of Trust that it will waive and will not, at any time, insist upon or plead or in any manner whatsoever claim or take any benefit or advantage of (a) any exemption, stay, extension or moratorium law now or at any time hereafter in force; (b) any law now or hereafter in force providing for the valuation or appraisal of the Premises or any part thereof prior to any sale or sales thereof to be made pursuant to any provision herein contained or pursuant to the decree, judgment or order of any court of competent jurisdiction; (c) to the extent permitted by law, any law now or at any time hereafter made or enacted granting a right to redeem from foreclosure or any other rights of redemption in connection with foreclosure of, or exercise of any power of sale under, this Deed of Trust; (d) any statute of limitations now or at any time hereafter in force; or (e) any right to require marshalling of assets by the Beneficiary.

2.11 Assignment of Rents and Leases. The Grantor assigns and transfers to the Beneficiary, as additional security for the Obligations, all right, title and interest of the Grantor in and to all leases which now exist or hereafter may be executed by or on behalf of the Grantor covering the Premises and any extensions or renewals thereof, together with all Rents, it being intended that this is an absolute and present assignment of the Rents. Notwithstanding that this assignment constitutes a present assignment of leases and rents, the Grantor may collect the Rents and manage the Premises, but only if and so long as a default has not occurred. If a default occurs, the right of Grantor to collect the Rents and to manage the Premises shall thereupon automatically terminate and such right, together with other rights, powers and authorizations contained herein, shall belong exclusively to the Beneficiary. This assignment confers upon the Beneficiary a power coupled with an interest and cannot be revoked by the Grantor. Upon the occurrence of a default, the Beneficiary, at its option without notice and without seeking or obtaining the appointment of a receiver or taking actual possession of the Premises may (a) give notice to any tenant(s) that the tenant(s) should begin making payments under their lease agreement(s) directly to the Beneficiary or its designee; (b) commence a foreclosure action and file a motion for appointment of a receiver; or (c) give notice to the Grantor that the Grantor should collect all Rents arising from the Premises and remit them to the Beneficiary upon collection and that the Grantor should enforce the terms of the lease(s) to ensure prompt payment by tenant(s) under the lease(s). All Rents received by the Grantor shall be held in trust by the Grantor for the Beneficiary. All such payments received by the Beneficiary may be applied in any manner as the Beneficiary determines to payments required under this Deed of Trust, the Loan Documents and the Obligations. The Grantor agrees to hold each tenant harmless from actions relating to tenant's payment of Rents to the Beneficiary.

2.12 Fixture Filing. From the date of its recording, this Deed of Trust shall be effective as a financing statement filed as a fixture filing under the Uniform Commercial Code with respect to the Improvements and for this purpose the name and address of the debtor is the name and address of the Grantor as set forth in this Deed of Trust and the name and address of the secured party is the name and address of the Beneficiary as set forth in this Deed of Trust. The Mortgaged Property includes goods which are or may become so affixed to real property as to become fixtures. If any of the Mortgaged Property is of a nature such that a security interest therein can be perfected under the Uniform Commercial Code, this Deed of Trust shall also constitute the grant of a security interest to the Beneficiary and serve as a Security Agreement, and Grantor authorizes the filing of any financing statements and agrees to execute other instruments that may be required for the further specification, perfection or renewal of such security interest.

ARTICLE III. RIGHTS AND DUTIES OF THE BENEFICIARY

In addition to all other rights (including setoff) and duties of the Beneficiary under the Loan Documents which are expressly incorporated herein as a part of this Deed of Trust, the following provisions will also apply:

3.1 Beneficiary Authorized to Perform for Grantor. If the Grantor fails to perform any of the Grantor's duties or covenants set forth in this Deed of Trust, the Beneficiary may perform the duties or cause them to be performed, including, without limitation, signing the Grantor's name or paying any amount so required, and the cost, with interest at the default rate set forth in the Loan Documents, will immediately be due from the Grantor to the Beneficiary from the date of expenditure by the Beneficiary to date of payment by the Grantor, and will be one of the Obligations secured by this Deed of Trust. All acts by the Beneficiary are hereby ratified and approved, and the Beneficiary will not be liable for any acts of commission or omission, nor for any errors of judgment or mistakes of fact or law.

ARTICLE IV. DEFAULTS AND REMEDIES

The Beneficiary may enforce its rights and remedies under this Deed of Trust upon default. A default will occur if the Grantor fails to comply with the terms of any Loan Documents (including this Deed of Trust or any guaranty by the Grantor) or a demand for payment is made under a demand loan, or the Grantor defaults on any other mortgage affecting the Land, or if any other obligor fails to comply with the terms of any Loan Documents for which the Grantor has given the Beneficiary a guaranty or pledge, or if there shall be a default under the Unsecured Real Estate Environmental Indemnity of even date herewith by Borrower or any other Indemnitor identified therein. Upon the occurrence of a default, then subject only to any statutes conferring upon the Grantor the right to notice and an opportunity to cure, the Beneficiary may declare the Obligations to be immediately due and payable.

4.1 Remedies. In addition to the remedies for default set forth below and in the other Loan Documents, including acceleration, the Beneficiary upon default will have all other rights and remedies for default available by law or equity. Upon a default, Beneficiary may exercise the following remedies:

(a) Enforcement of Assignment of Rents and Leases. To the fullest extent permitted by applicable law, Beneficiary may:

(i) terminate the license granted to Grantor to collect the Rents (regardless of whether Beneficiary or Trustee

shall have entered into possession of the Mortgaged Property), collect and sue for the Rents in Beneficiary's own name, give receipts and releases therefor, and after deducting all expenses of collection, including reasonable attorneys' fees, apply the net proceeds thereof to any Obligations as Beneficiary may elect;

(ii) make, modify, enforce, cancel or accept surrender of any leases, evict tenants, adjust Rents, maintain, decorate, refurbish, repair, clean, and make space ready for renting, and otherwise do anything Beneficiary reasonably deems advisable in connection with the Mortgaged Property;

(iii) apply the Rents so collected to the operation and management of the Mortgaged Property, including the payment of reasonable management, brokerage and attorneys' fees, or to the Obligations; and

(iv) require Grantor to transfer and deliver possession of all security deposits and records thereof to Beneficiary.

(b) Power of Sale. Beneficiary may require the Trustee, and the Trustee is hereby authorized and empowered, to enter and take possession of the Premises and to sell all or part of the Mortgaged Property, at public auction, to the highest bidder for cash or such equivalent form of payment as may be permitted by applicable law, free from equity of redemption, and any statutory or common law right of redemption, homestead, dower, marital share, and all other exemptions, after giving notice of the time, place and terms of such sale and of the Mortgaged Property to be sold, by advertising the sale of the property in such manner and at such times as may be required by applicable law. The Trustee shall execute a conveyance to the purchaser conveying to the purchaser all the right, title and interest in the real and personal property sold at the trustee's sale which the Grantor had or had power to convey at the time of execution of this Deed of Trust and such right, title and interest therein as the Grantor may have thereafter acquired, and the Trustee shall deliver possession to the purchaser, which the Grantor warrants shall be given without obstruction, hindrance or delay. To the extent permitted by applicable law, the Trustee may sell all or any portion of the Mortgaged Property, together or in lots or parcels, and may execute and deliver to the purchaser or purchasers of such property a conveyance as described above. The Trustee shall receive the proceeds thereof and shall apply the same as follows: (a) first, the expense of the sale, including a reasonable charge by the Trustee and by his or her attorneys; (b) second, to the payment of the Obligations herein secured, in such order as Beneficiary shall elect, and to the extent permitted by applicable law any balance of said Obligations may be the subject of immediate suit; and (c) third, should there be any surplus, Trustee will deposit such surplus, if any, less the clerk's filing fee, with the clerk of the superior court of the county in which the sale took place. To the extent permitted by applicable law, the sale or sales by Trustee of less than the whole of the Mortgaged Property shall not exhaust the power of sale herein granted, and the Trustee is specifically empowered to make successive sales under such power until the whole of the Mortgaged Property shall be sold; and if the proceeds of such sale or sales of less than the whole of the Premises shall be less than the aggregate of the Obligations and the expenses thereof, this Deed of Trust and the lien, security interest and assignment hereof shall remain in full force and effect as to the unsold portion of the Mortgaged Property; provided, however, that Grantor shall never have any right to require the sale or sales of less than the whole of the Mortgaged Property, but Beneficiary shall have the right at its sole election, to request the Trustee to sell less than the whole of the Mortgaged Property. Beneficiary may bid and become the purchaser of all or any part of the Mortgaged Property at any such sale, and the amount of Beneficiary's successful bid may be credited on the Obligations.

(c) Judicial and Other Relief. Beneficiary or Trustee may proceed by a suit or suits in equity or at law, whether for the specific performance of any covenant or agreement herein contained or in aid of the execution of any power herein granted, or for any foreclosure hereunder or for the sale of the Mortgaged Property under the judgment or decree of any court or courts of competent jurisdiction.

(d) Entry on Premises; Tenancy at Will.

(i) Beneficiary may enter into and upon and take possession of all or any part of the Mortgaged Property, and may exclude Grantor, and all persons claiming under Grantor, and its agents or servants, wholly or partly therefrom; and, holding the same, Beneficiary may use, administer, manage, operate, and control the Mortgaged Property and may exercise all rights and powers of Grantor in the name, place and stead of Grantor, or otherwise, as the Beneficiary shall deem best; and in the exercise of any of the foregoing rights and powers Beneficiary shall not be liable to Grantor for any loss or damage thereby sustained unless due solely to the willful misconduct or gross negligence of Beneficiary.

(ii) In the event of a trustee's or other foreclosure sale hereunder and if at the time of such sale Grantor or any other party (other than a tenant under a Lease as to which the Beneficiary shall have expressly subordinated the lien of this Deed of Trust as hereinabove set out) occupies the portion of the Mortgaged Property so sold or any part thereof, such occupant shall on the twentieth day after the sale become the tenant of the purchaser at such sale, which tenancy, unless otherwise required by applicable law, shall be a tenancy from day to day, terminable at the will

of such purchaser, at a reasonable rental per day based upon the value of the portion of the Premises so occupied (but not less than any rental theretofore paid by such tenant, computed on a daily basis). An action of forcible detainer shall lie if any such tenant holds over a demand in writing for possession of such portion of the Premises.

(e) Receiver. Beneficiary may make application to a court of competent jurisdiction, as a matter of strict right and without notice to Grantor or regard to the adequacy of the Mortgaged Property for the repayment of the Obligations, for appointment of a receiver of the Mortgaged Property, and Grantor does hereby irrevocably consent to such appointment. Any such receiver shall have all necessary and proper powers and duties of receivers in similar cases, including the full power to rent, maintain and otherwise operate the Mortgaged Property upon such terms as may be approved by the court.

(f) Remedies Cumulative, Concurrent and Nonexclusive. If the Obligations are now or hereafter further secured by chattel mortgages, other deeds of trust, security agreements, pledges, contracts of guaranty, assignments of leases, or other security, then to the fullest extent permitted by applicable law, Beneficiary may, at its option, exhaust its remedies under any one or more of said instruments and this Deed of Trust, either concurrently or independently, and in such order as Beneficiary may determine. Beneficiary shall have all rights, remedies and recourses granted in the Loan Documents and available to it at law or equity (including, without limitation, those granted by the Uniform Commercial Code), and to the fullest extent permitted by applicable law, same (a) shall be cumulative, concurrent, and nonexclusive, (b) may be pursued separately, successively or concurrently against Grantor or others obligated for the Obligations, or any part thereof or against any one or more of them, or against the Mortgaged Property, at the sole discretion of Beneficiary, and (c) may be exercised as often as occasion therefor shall arise, it being agreed by Grantor that the exercise of or failure to exercise any of same shall in no event be construed as a waiver or release thereof or of any other right, remedy or recourse.

(g) Waiver by the Beneficiary. The Beneficiary may permit the Grantor to attempt to remedy any default without waiving its rights and remedies hereunder, and the Beneficiary may waive any default without waiving any other subsequent or prior default by the Grantor. Furthermore, delay on the part of the Beneficiary in exercising any right, power or privilege hereunder or at law will not operate as a waiver thereof, nor will any single or partial exercise of such right, power or privilege preclude other exercise thereof or the exercise of any other right, power or privilege. No waiver or suspension will be deemed to have occurred unless the Beneficiary has expressly agreed in writing specifying such waiver or suspension.

(h) Attorneys' Fees and Other Costs. Attorneys' fees and other costs incurred in connection with this Deed of Trust (including without limitation, the cost of any appraisal which may be obtained in conjunction with any foreclosure or deficiency judgment proceedings) may be recovered by the Beneficiary and included in any sale made hereunder or by judgment of foreclosure.

ARTICLE V. TRUSTEE

5.1 Action by Trustee. The Trustee named herein shall be clothed with full power to act when action hereunder shall be required, and to execute any conveyance of the Mortgaged Property. In the event that the substitution of the Trustee shall become necessary for any reason, the substitution of a trustee in the place of that named herein shall be sufficient. The term "Trustee" shall be construed to mean "Trustees" whenever the sense requires. The necessity of the Trustee herein named, or any successor in trust, making oath or giving bond, is expressly waived.

5.2 Employment of Agents. The Trustee, or any one acting in its stead, shall have, in its discretion, authority to employ all property agents and attorneys in the execution of this trust and/or in the conducting of any sale made pursuant to the terms hereof, and to pay for such services rendered out of the proceeds of the sale of the Mortgaged Property, should any be realized; and if no sale be made or if the proceeds of sale be insufficient to pay the same, then, to the fullest extent permitted by applicable law, Grantor hereby undertakes and agrees to pay the cost of such services rendered to said Trustee. Trustee may rely on any document believed by it in good faith to be genuine. All money received by the Trustee shall, until used or applied as herein provided, be held in trust, but need not be segregated (except to the extent required by law), and the Trustee shall not be liable for interest thereon.

5.3 Indemnification of Trustee. If the Trustee shall be made a party to or shall intervene in any action or proceeding affecting the Mortgaged Property or the title thereto, or the interest of the Trustee or Beneficiary under this Deed of Trust, the Trustee and Beneficiary shall be reimbursed by Grantor, immediately and without demand, for all reasonable costs, charges and attorneys' fees incurred by them or either of them in any such case, and the same shall be secured hereby as a further charge and lien upon the Mortgaged Property.

5.4 Successor Trustee. In the event of the death, refusal, or of inability for any cause, on the part of the Trustee named herein, or of any successor trustee, to act at any time when action under the forgoing powers and trust may be required, or for any other reason satisfactory to the Beneficiary, the Beneficiary is authorized, either in its own name or

through an attorney or attorneys in fact appointed for that purpose, by written instrument duly recorded, to name, substitute and appoint a successor or successors to execute this trust, such appointment to be evidenced by writing, duly acknowledged; and when such writing shall have been recorded in each county in which the Land is located, the substituted trustee named therein shall thereupon be vested with all the right and title, and clothed with all the power of the Trustee named herein and such like power of substitution shall continue so long as any part of the debt secured hereby remains unpaid. Any successor Trustee may be replaced, at the option of the Beneficiary, by the original Trustee or a successor Trustee previously replaced, each such substitution to be made as herein provided.

ARTICLE VI. MISCELLANEOUS

In addition to all other miscellaneous provisions under the Loan Documents which are expressly incorporated as a part of this Deed of Trust, the following provisions will also apply:

6.1 Term of Deed of Trust. This Deed of Trust shall continue in full force and effect until the Mortgaged Property has been reconveyed by the Trustee.

6.2 Time of the Essence. Time is of the essence with respect to payment of the Obligations, the performance of all covenants of the Grantor and the payment of taxes, assessments, and similar charges and insurance premiums.

6.3 Subrogation. The Beneficiary will be subrogated to the lien of any mortgage or other lien discharged, in whole or in part, by the proceeds of the Note or other advances by the Beneficiary, in which event any sums otherwise advanced by the Beneficiary shall be immediately due and payable, with interest at the default rate set forth in the Loan Documents from the date of advance by the Beneficiary to the date of payment by the Grantor, and will be one of the Obligations secured by this Deed of Trust.

6.4 Choice of Law. This Deed of Trust will be governed by the laws of the state in which the Mortgaged Property is located. For all other purposes, the choice of law specified in the Loan Documents will govern.

6.5 Severability. Invalidity or unenforceability of any provision of this Deed of Trust shall not affect the validity or enforceability of any other provision.

6.6 Entire Agreement. This Deed of Trust is intended by the Grantor and the Beneficiary as a final expression of this Deed of Trust and as a complete and exclusive statement of its terms, there being no conditions to the full effectiveness of this Deed of Trust. No parol evidence of any nature shall be used to supplement or modify any terms.

6.7 Joint Liability; Successors and Assigns. If there is more than one Grantor, the liability of the Grantors will be joint and several, and the reference to "Grantor" shall be deemed to refer to each Grantor and to all Grantors. The rights, options, powers and remedies granted in this Deed of Trust and the other Loan Documents shall extend to the Beneficiary and to its successors and assigns, shall be binding upon the Grantor and its successors and assigns, and shall be applicable hereto and to all renewals, amendments and/or extensions hereof.

6.8 Indemnification. Except for harm arising from the Beneficiary's or the Trustee's willful misconduct, the Grantor hereby indemnifies and agrees to defend and hold the Beneficiary and the Trustee harmless from any and all losses, costs, damages, claims and expenses (including, without limitation, attorneys' fees and expenses) of any kind suffered by or asserted against the Beneficiary or the Trustee relating to claims by third parties arising out of the financing provided under the Loan Documents or related to the Mortgaged Property excepting the Beneficiary's failure to perform its obligations under the Real Estate Environmental Indemnity Agreement or the exercise by the Beneficiary or the Trustee of any of their respective powers, rights and remedies under this Deed of Trust. To the fullest extent permitted by applicable law, this indemnification and hold harmless provision will survive the termination of the Loan Documents and the satisfaction of this Deed of Trust and Obligations due the Beneficiary.

6.9 Notices. Except as otherwise provided by applicable law, notice of any record shall be deemed delivered when the record has been (a) deposited in the United States Mail, postage pre-paid, (b) received by overnight delivery service, (c) received by telex, (d) received by telecopy, (e) received through the internet, or (f) when personally delivered.

6.10 Release of Rights of Dower, Homestead and Distributive Share. Each of the undersigned hereby relinquishes all rights of dower, homestead and distributive share in and to the Mortgaged Property and waives all rights of exemption as to any of the Mortgaged Property.

6.11 Copy. The Grantor hereby acknowledges the receipt of a copy of this Deed of Trust, together with a copy of each promissory note secured hereby, and all other documents executed by the Grantor in connection herewith.

6.12 Usury Savings Clause. Notwithstanding anything herein or in the Note to the contrary, no provision contained herein or in the Note which purports to obligate the Grantor to pay any amount of interest or any fees, costs or expenses which are in excess of the maximum permitted by applicable law, shall be effective to the extent that it

calls for the payment of any interest or other sums in excess of such maximum. All agreements between the Grantor and the Beneficiary, whether now existing or hereafter arising and whether written or oral, are hereby limited so that in no contingency, whether by reason of demand for payment of or acceleration of the maturity of any of the indebtedness secured hereby or otherwise, shall the interest contracted for, charged or received by the Beneficiary exceed the maximum amount permissible under applicable law. If, from any circumstance whatsoever, interest would otherwise be payable to the Beneficiary in excess of the maximum lawful amount, the interest payable to the Beneficiary shall be reduced to the maximum amount permitted under applicable law; and if from any circumstance the Beneficiary shall ever receive anything of value deemed interest by applicable law in excess of the maximum lawful amount, an amount equal to any excessive interest shall at the Beneficiary's option, be refunded to the Grantor or be applied to the reduction of the principal balance of the indebtedness secured hereby and not to the payment of interest or, if such excessive interest exceeds the unpaid balance of principal indebtedness secured hereby, such excess shall be refunded to the Grantor. This paragraph shall control all agreements between the Grantor and the Beneficiary.

6.13 Riders. The rider(s) attached hereto and recorded together with this Deed of Trust are hereby fully incorporated into this Deed of Trust. [Check applicable box(es)] Condominium Rider Second Deed of Trust Rider Construction Loan Rider Other(s) (Specify) _____

IN WITNESS WHEREOF, the undersigned has/have executed this Deed of Trust as of DECEMBER 7, 2012

(Individual Grantor)

(Individual Grantor)

Printed Name N/A

Printed Name N/A

JYS4, LLC

Grantor Name (Organization)

a Washington limited liability company

By *Demetris Pallis*

Name and Title Demetris H. Pallis, Managing Member

By _____

Name and Title _____

(Grantor Address)

1845 72nd Avenue SE

Mercer Island, WA 98040

(Beneficiary Address)

555 SW OAK

PORTLAND, OR 97204

[NOTARIZATION(S) ON NEXT PAGE]

Acknowledgment in Individual Capacity

STATE OF _____ }
COUNTY OF _____ } SS.

I certify that I know or have satisfactory evidence that N/A
[Name(s) of Person(s)]

is/are the person(s) who appeared before me, and said person(s) acknowledged that he/she/they signed this instrument and acknowledged it to be his/her/their free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

(Seal or Stamp)

Printed Name: _____
Title: _____
My appointment expires: _____

Acknowledgment in Representative Capacity

STATE OF WA }
COUNTY OF King } SS.

I certify that I know or have satisfactory evidence that Demetre H Pallis
[Name(s) of Person(s)]

is/are the person(s) who appeared before me, and said person(s) acknowledged that he/she/they signed this instrument, on oath stated that he/she/they was/were authorized to execute the instrument and acknowledged it as the Managing Member

(Type of authority, e.g., officer, trustee, etc)

of JYS4, LLC
(Name of party on behalf of whom instrument was executed)

to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

Dated: 12/5/12

(Seal or Stamp)



[Signature]
Printed Name: Shelley M. Anderson
Title: Escrow Officer
My appointment expires: 9/25/14

**EXHIBIT A TO DEED OF TRUST
(Legal Description)**

Grantor/Trustor: JYS4, LLC

Trustee: U.S. BANK TRUST COMPANY, N.A.

Beneficiary: U.S. BANK N.A.

Legal Description of Land:

THAT PORTION OF THE FOLLOWING PARCELS LYING WEST OF THE WESTERLY MARGIN OF PRIMARY STATE HIGHWAY NO. 1 (WEST MARGINAL WAY):
LOTS 20 THROUGH 24, BLOCK 5, RIVER PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS, PAGE 41, UNDER RECORDING NUMBER 72269, IN KING COUNTY, WASHINGTON;
VACATED BLOCK 1, VACATED ALLEY ADJOINING SAID BLOCK 1 ON THE NORTH, THE NORTH HALF OF VACATED BLOCK 2, VACATED ORCHARD STREET (NOW ROSE STREET) LYING BETWEEN SAID BLOCK 1 AND BLOCK 2, AND THE NORTH HALF OF VACATED ALLEY ADJOINING LOTS PLATTED AS LOTS 1 THROUGH 13, BLOCK 2, ALL IN SOUTH PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 4 OF PLATS, PAGE 87, UNDER RECORDING NUMBER 45931, IN KING COUNTY, WASHINGTON.

Property Located At: 8230 5th Ave S, Seattle, WA 98108

Vested As: JYS4, LLC, a Washington limited liability company

RETURN ADDRESS:

Steven J. Christophersen
Ameritas Life Insurance Corp.
5900 O Street
Lincoln, Nebraska 68510
Loan No. 3141876

ASSIGNMENT OF RENTS AND LEASES

GRANTOR(S):	JYS4, LLC
GRANTEE(S):	AMERITAS LIFE INSURANCE CORP.
ABBREVIATED LEGAL DESCRIPTION:	PTN. OF LOTS 20-24, BLK 5, RIVER PARK, VOL. 7, PG 41, & PTN. OF BLK 1 & BLK 2, SOUTH PARK, VOL 4, PG 87 (SEE PAGE 9 FOR FULL LEGAL DESCRIPTION)
ASSESSOR'S TAX PARCEL NO(S):	7883600005

THIS ASSIGNMENT is made this 25TH day of February, 2015, by JYS4, LLC, a Washington limited liability company (herein called the "Assignor"), whose mailing address is 1845 72nd Avenue SE, Mercer Island, Washington 98040, to Ameritas Life Insurance Corp., a a Nebraska corporation (herein called the "Assignee"), whose mailing address is 5900 O Street, Lincoln, Nebraska 68510.

WITNESSETH:

FOR VALUE RECEIVED, Assignor hereby absolutely and unconditionally grants, transfers and assigns to Assignee the immediate and continuing right to receive and collect the rents, income and profits (collectively the "Rents") arising out of or payable from the real property ("Premises") described as follows:

**See attached Exhibit A
which is incorporated herein by this reference**

and all leases and agreements for the leasing, use or occupancy of the Premises, now heretofore or hereafter entered into, whether oral or written or whether for a definite term or month-to-month, including subleases thereof and tenancies following attornment (collectively "Leases"), together with all guarantees therefor and all renewals, replacements and extensions thereof, together with all payments derived therefrom including, but not limited to, claims for the recovery of damages

done to the Premises or for the abatement of any nuisance existing thereon, claims for damages resulting from default under said Leases whether resulting from acts of insolvency or acts of bankruptcy or otherwise, and lump sum payments for the cancellation of said Leases or the waiver of any obligation or term thereof prior to the expiration date and the return of any insurance premiums or ad valorem tax payments made in advance and subsequently refunded, and all security deposits, damage deposits and other funds paid to Assignor by all lessees under the Leases, whether lump sum or in installments, all for the purpose of securing the following (herein collectively referred to as the "Indebtedness Secured Hereby"):

A. Payment of the indebtedness evidenced by that certain Promissory Note (including any extensions, replacements, modifications or renewals thereof) in the principal sum of One Million Five Hundred Thousand No/100 Dollars (\$1,500,000.00), dated of even date herewith, executed and delivered by the Assignor and payable to the order of Assignee (the "Note"), secured by a Deed of Trust, Security Agreement and Fixture Filing Statement (referred to herein as the "Deed of Trust") of the same date from Assignor to Assignee covering the Premises, filed for record in the King County Recorder's Office.

B. Payment, performance and discharge of each and every obligation, covenant and agreement of Assignor herein and in said Note, Deed of Trust and any other instrument(s) or document(s) evidencing or securing the indebtedness evidenced by the Note (collectively the "Security Documents").

C. Payment of future advances deemed necessary or desirable by Assignee to protect and preserve the Premises or the Leases or Rents, whether such advances are made pursuant to this Assignment or any other Security Document.

AND TO PROTECT THE SECURITY OF THIS ASSIGNMENT, ASSIGNOR AGREES:

1. **Performance of Leases.** To faithfully abide by, perform and discharge each and every obligation, covenant and agreement under any Leases of the Premises to be performed by the landlord thereunder; to enforce or secure the performance of each and every obligation, covenant, condition and agreement of said Leases by the tenants thereunder to be performed; not to borrow against, pledge or assign any rentals due under said Leases, or anticipate the Rents thereunder or reduce the amount of the Rents and other payments thereunder; not to waive, excuse, condone or in any manner release or discharge the tenants thereunder of or from the obligations, covenants, conditions and agreements by said tenants to be performed under the Leases or to permit the tenant to assign or sublet its interest in the Lease unless required to do so by the terms of the Lease; not to terminate the Leases or accept a surrender thereof or a discharge of the tenant unless required to do so by the terms of the Lease; and not to consent to a subordination of the interest of the tenants thereunder to any party other than Assignee and then only if specifically required to do so by the Assignee.
2. **Subsequent Leases.** No new Leases will be executed or Lease extensions, amendments or modifications granted by the Assignor after the date hereof with respect to all or any portion of the Premises without prior written

approval of Assignee as to the standard form, terms and conditions of such Leases or Lease extensions, amendments or modifications.

3. **Protect Security.** The Assignee shall have the right at Assignor's sole cost and expense, to appear in and defend any action or proceeding arising under, growing out of or in any manner connected with the Leases or the obligations, duties or liabilities of the landlord thereunder, and Assignor agrees to pay all costs and expenses of Assignee, including attorney's fees in a reasonable sum, in any such action or proceeding in which the Assignee in its sole discretion may appear, together with interest at the Default Rate as provided in the Note, from the date incurred or advanced until paid.
4. **Representations.** Assignor represents and warrants that it is now the absolute owner of said Rents with full right and title to assign the same; that there are no outstanding assignments or pledges of the Leases or Rents; that there are no existing defaults under the provisions of any of the Leases on the part of any party to the Leases; that no Rents have been waived, anticipated, discounted, compromised or released, except as disclosed to Assignee in writing on the rent roll prepared by Assignor and delivered to Assignee contemporaneously herewith; and that the tenants under the Leases have no defenses, setoffs or counterclaims against Assignor.
5. **Present Assignment.** This Assignment shall constitute a perfected, absolute and present assignment of the Leases and Rents. Assignor shall have the right to collect (but not prior to accrual) all of the Rents, and to retain, use and enjoy the same unless and until a default shall occur in the payment when due of interest or principal under the Note or until any other default shall occur hereunder or under the Note, Deed of Trust or under any other Security Document.
6. **Remedies.**
 - (a) Upon or at any time after default in the payment of any Indebtedness Secured Hereby or in the performance of any obligation, covenant or agreement contained herein or in said Note, Deed of Trust or any Security Document or if any representation or warranty herein or given by Assignor in connection with the Indebtedness Secured Hereby proves to be untrue, the Assignee may declare all Indebtedness Secured Hereby immediately due and payable, may revoke the privilege granted Assignor hereunder to collect the Rents, and may, at its option, without notice, either in person or by agent, with or without taking possession of or entering the Premises, with or without bringing any action or proceeding, or by a receiver to be appointed by a court, collect all of the Rents payable under the Leases, enforce the payment thereof and exercise all of the rights of the Assignor under the Leases and all of the rights of the Assignee hereunder, and may enter upon, take possession of, manage and operate said Premises, or any part thereof; may cancel, enforce or modify the Leases, and fix or modify Rents, and do any acts which the Assignee deems proper to protect the security hereof with or without taking possession of said Premises, and may apply the same to the costs and expenses of operation, management and collection,

including reasonable attorney's fees, to the payment of the expenses of any agent appointed by Assignee, to the payment of taxes, assessments, insurance premiums and expenditures for the upkeep of the Premises, to the performance of the landlord's obligation under the Leases and to any Indebtedness Secured Hereby all in such order as the Assignee may determine. The entering upon and taking possession of said Premises, the collection of such Rents, and the application thereof as aforesaid, shall not cure or waive any default or waive, modify or affect notice of default under said Deed of Trust or invalidate any act done pursuant to such notice nor in any way operate to prevent the Assignee from pursuing any remedy which it now or hereafter may have under the terms or conditions of said Deed of Trust or the Note secured thereby or any other Security Document or other instrument securing the same.

- (b) Assignee shall have all other rights and remedies available at law or in equity. All rights and remedies provided herein shall be cumulative and concurrent and shall be in addition to the rights and remedies provided Assignee as Beneficiary under the Deed of Trust. The exercise by Assignee of any one of such remedies provided Assignee under this Assignment or under the Deed of Trust shall not be deemed to be exclusive of any one of the other remedies available to Assignee and shall in no way limit or prejudice any other legal or equitable remedies available to Assignee. In the event of any inconsistency between the terms of this Assignment, the Deed of Trust or any of the Security Documents, the terms of the Deed of Trust shall control; however, this provision shall not be deemed to limit, abrogate, restrict or impair any provision contained in this Assignment or in the Security Documents which provides for more extensive or expansive obligations, requirements or restrictions by or upon Assignor or more extensive or expansive rights or remedies of Assignee, than are contained in this Assignment.

7. No Liability for Assignee. The Assignee shall not be obligated to perform or discharge, nor does it hereby undertake to perform or discharge any obligation, duty or liability under the Leases nor shall this Assignment operate to place responsibility for the control, care, management or repair of the Premises upon the Assignee nor for the carrying out of any of the terms and conditions of said Leases, nor shall it operate to make the Assignee responsible or liable for any waste committed on the Premises, or for any dangerous or defective condition of the Premises, or, to the extent allowed by law, for any negligence in the management, upkeep, repair or control of said Premises resulting in loss or injury or death to any tenant, licensee, employee or stranger nor liable for laches or failure to collect the Rents.
8. Assignor Hold Assignee Harmless. The Assignor shall, and does hereby agree, to indemnify and to hold Assignee harmless for, from and against any and all liability, loss or damage which it may or might incur under the Leases or under or by reason of this Assignment and of and from any and all claims and demands whatsoever which may be asserted against it by reason of any alleged obligations or undertakings on its part to perform or discharge any of the terms, covenants or agreements contained in said Leases. Should the

Assignee incur any such liability, or in the defense of any such claims or demands, the amount thereof, including costs, expenses and reasonable attorney's fees, together with interest thereon at the Default Rate provided for in the Note, shall be secured hereby, shall be added to the Indebtedness Secured Hereby, and Assignor shall reimburse the Assignee therefor immediately upon demand, and upon the failure of Assignor to do so, the Assignee may declare all Indebtedness Secured Hereby immediately due and payable.

9. Authorization to Tenant. The tenants under the Leases are hereby irrevocably authorized and directed to recognize the claims of Assignee or any receiver appointed hereunder without investigating the reason for any action taken by the Assignee or such receiver, or the validity or the amount of indebtedness owing to the Assignee, or the existence of any default in the Note, Deed of Trust, any Security Document or under or by reason of this Assignment, or the application to be made by the Assignee or such receiver. Assignor hereby irrevocably directs and authorizes the tenants to pay to Assignee or such receiver all sums due under the Leases and consents and directs that said sums shall be paid to Assignee or such receiver in accordance with the terms of its receivership without the necessity for a judicial determination that a default has occurred hereunder or under the Deed of Trust or that Assignee is entitled to exercise its rights hereunder, and to the extent such sums are paid to Assignee or such receiver, the Assignor agrees that the tenant shall have no further liability to Assignor for the same. The sole signature of the Assignee or such receiver shall be sufficient for the exercise of any rights under this Assignment and the sole receipt of the Assignee or such receiver for any sums received shall be a full discharge and release therefor to any such tenant or occupant of the Premises. Checks for all or any part of the rentals collected under this Assignment shall upon notice from the Assignee or such receiver be drawn to the exclusive order of the Assignee or such receiver.
10. Assignee Attorney-In-Fact. Assignor hereby irrevocably appoints Assignee and its successors and assigns as its agent and attorney in fact, which appointment is coupled with an interest, to exercise any rights or remedies hereunder and to execute and deliver during the term of this Assignment such instruments as Assignee may deem necessary to make this Assignment and any further assignment effective.
11. Subsequent Leases. That until the Indebtedness Secured Hereby shall have been paid in full, Assignor will deliver to the Assignee executed copies of any and all other and future Leases upon all or a part of the said Premises and agrees to make, execute and deliver unto Assignee upon demand and at any time or times, any and all assignments and other instruments sufficient to assign such Leases and the Rents thereunder to Assignee or that the Assignee may deem to be advisable for carrying out the true purposes and intent of this Assignment. From time to time on request of the Assignee, the Assignor agrees to furnish Assignee with a rent roll of the Premises disclosing current tenancies, rents payable, and such other matters as Assignee may reasonably request.

12. No Mortgagee in Possession. Nothing herein contained and no actions taken pursuant to this Assignment shall be construed as constituting the Assignee a "Mortgagee in Possession".
13. Continuing Rights. The rights and powers of Assignee hereunder shall continue and remain in full force and effect until all Indebtedness Secured Hereby, including any deficiency remaining after a foreclosure sale are paid in full, and shall continue after commencement of a foreclosure action (or a trustee's sale) and after foreclosure sale and until expiration of the equity of redemption if the Assignee be the purchaser at the foreclosure sale.
14. Successors and Assigns. This Assignment and each and every covenant, agreement and provision hereof, shall be binding upon the Assignor and its successors and assigns including, without limitation, each and every record owner of the Premises or any other person having an interest therein and shall inure to the benefit of the Assignee and its successors and assigns. As used herein the words "successors and assigns" shall also be deemed to mean the heirs, executors, representatives and administrators of any natural person who is a party to this Assignment.
15. Governing Law. This Assignment is made pursuant to and shall be governed by the laws of the State of Washington.
16. Validity Clause. It is the intent of this Assignment to confer to Assignee the rights and benefits hereunder to the full extent allowable by law. The unenforceability or invalidity of any provision hereof shall not render any other provision or provisions herein contained unenforceable or invalid. Any provisions found unenforceable shall be severable from this Assignment.
17. Notices. Any notice which any party hereto may desire or may be required to give to any other party, shall be effective if made in the same manner for notices given pursuant to the Deed of Trust.
18. Attorney's Fees. Assignor agrees to pay to Assignee upon demand any collection expenses, court costs and reasonable attorneys' fees (whether or not suit is commenced) which may be incurred in the collection or enforcement of this Assignment or any part hereof or any of the Security Documents; and in the event suit is brought to enforce payment hereof, that such expenses, costs and fees be determined by a court sitting without a jury. Attorneys' fees shall include any such fees incurred in any bankruptcy, appellate or related ancillary or supplemental proceedings, whether before or after final judgment related to the enforcement or defense of this Assignment.
19. Security Deposits. The Assignor agrees on demand to transfer to the Assignee any security deposits held by Assignor under the terms of the Leases. Assignor agrees that such security deposits may be held by the Assignee without any allowance of interest thereon to Assignee, shall become the absolute property of the Assignee under any circumstances where Assignee exercises its remedies hereunder, and shall be applied in accordance with the provisions of the Leases. Until Assignee makes such demand and the deposits are paid over to Assignee, the Assignee assumes

no responsibility to the tenants under the Leases for any such security deposit.

20. Perfection: This Assignment shall be deemed perfected, absolute and choate upon the recording of this Assignment.

ASSIGNOR, BY EXECUTION OF THIS ASSIGNMENT, AND ASSIGNEE BY ACCEPTANCE OF THIS ASSIGNMENT, EACH HEREBY IRREVOCABLY WAIVE ALL RIGHTS TO TRIAL BY JURY IN ANY ACTION, PROCEEDING OR COUNTERCLAIM ARISING OUT OF OR RELATING TO THIS ASSIGNMENT AND ANY OTHER LOAN DOCUMENTS, OR THE TRANSACTIONS CONTEMPLATED THEREBY, ANY COURSE OF CONDUCT, COURSE OF DEALING, STATEMENTS (WHETHER VERBAL OR WRITTEN) OR ACTION OF ANY OF THE PARTIES. ASSIGNOR ACKNOWLEDGES THAT THIS WAIVER IS A MATERIAL INDUCEMENT TO HOLDER MAKING THE LOAN WHICH IS THE SUBJECT MATTER OF THIS TRANSACTION. ASSIGNOR FURTHER ACKNOWLEDGES THAT THIS WAIVER HAS BEEN FREELY AND VOLUNTARILY MADE AFTER FULL OPPORTUNITY TO DISCUSS SAME WITH COUNSEL OF ASSIGNOR'S CHOICE.

{Signature Page to Follow}

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date set forth below and is effective on the date first set forth above.

ASSIGNOR:

JYS4, LLC,
a Washington limited liability company

By: 
Demetre H. Pallis
Its: Manager

STATE OF WASHINGTON)
) ss.
COUNTY OF KING)

I certify that I know or have satisfactory evidence that Demetre H. Pallis is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as the Manager of JYS4, LLC, to be the free and voluntary act and deed of such limited liability company, for the uses and purposes mentioned in the instrument.

WITNESS my hand and official seal hereto affixed on February ~~21~~²⁴ 2015.

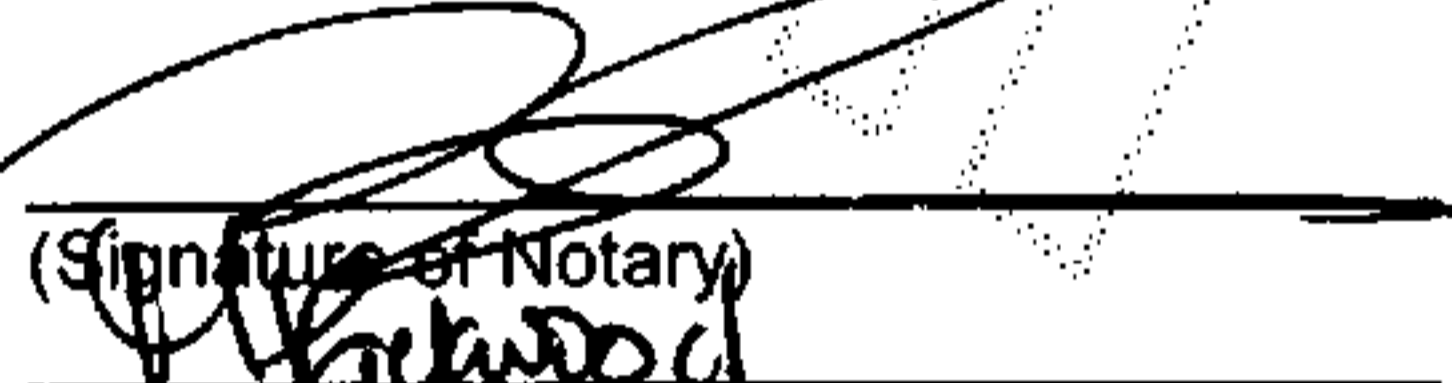
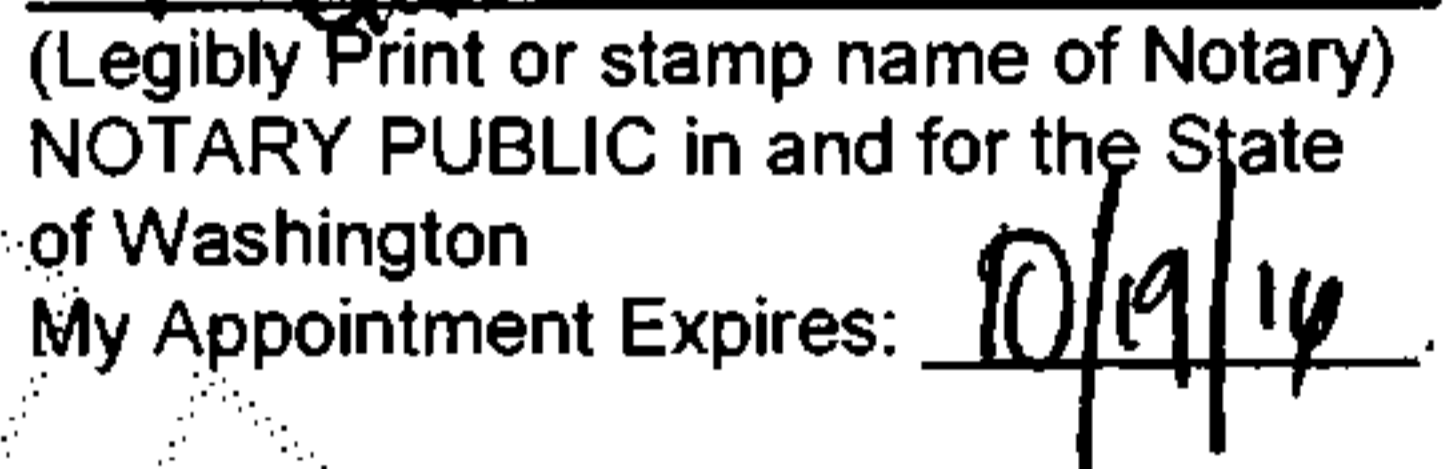

(Signature of Notary)

(Legibly Print or stamp name of Notary)
NOTARY PUBLIC in and for the State
of Washington
My Appointment Expires: 10/19/14

EXHIBIT A

Legal Description of Property

To Assignment of Rents and Leases

THAT PORTION OF THE FOLLOWING PARCELS LYING WEST OF THE WESTERLY MARGIN OF PRIMARY STATE HIGHWAY NO. 1 (WEST MARGINAL WAY):

LOTS 20 THROUGH 24, INCLUSIVE, BLOCK 5, RIVER PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS, PAGE 41, IN KING COUNTY, WASHINGTON;

TOGETHER WITH VACATED BLOCK 1, VACATED ALLEY ADJOINING SAID BLOCK 1 ON THE NORTH, THE NORTH HALF OF VACATED BLOCK 2, VACATED ORCHARD STREET (NOW ROSE STREET) LYING BETWEEN SAID BLOCK 1 AND BLOCK 2, AND THE NORTH HALF OF VACATED ALLEY ADJOINING LOTS PLATTED AS LOTS 1 THROUGH 13, INCLUSIVE, BLOCK 2, ALL IN SOUTH PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 4 OF PLATS, PAGE 87, IN KING COUNTY, WASHINGTON.

SITUATE IN THE CITY OF SEATTLE, COUNTY OF KING, STATE OF WASHINGTON.



20150420000010

US BANK FR 72.00
PAGE-001 OF 001
04/20/2015 08:21
KING COUNTY, WA

When Recorded, Mail To:
JYS4, LLC
1845 72ND AVENUE SE
MERCER ISLAND WA 98040

DEED OF RECONVEYANCE

Prepared by: Marsha Heath File #55-849299-18 Ctr #0013302

U.S. Bank Trust Company, National Association, whose address is 800 Nicollet Mall, Minneapolis, MN 55402, trustee under that certain Washington Deed of Trust, Security Agreement and Assignment of Rents and Leases (Including Fixture Filing Under Uniform Commercial Code) ("Trust Deed"), executed and delivered by JYS4, LLC whose address is 1845 72ND AVENUE SE, MERCER ISLAND WA 98040, as grantor, dated as of December 7, 2012, recorded on December 7, 2012 as No. 20121207001977, Book n/a, Page n/a, in the Mortgage Records of King County, Washington.

Having received from the beneficiary, U.S. Bank National Association, whose address is 800 Nicollet Mall, Minneapolis, MN 55402, under said Trust Deed a written request to reconvey, reciting that the obligation(s) secured by said Trust Deed has been fully paid and performed, hereby does grant, bargain, sell and convey, but without any covenant or warranty, express or implied, to the person or persons legally entitled thereto, all of the estate held by the undersigned in and to said premises by virtue of said Trust Deed.

IN WITNESS WHEREOF, the undersigned trustee has executed this Deed as of April 8, 2015.

TRUSTEE

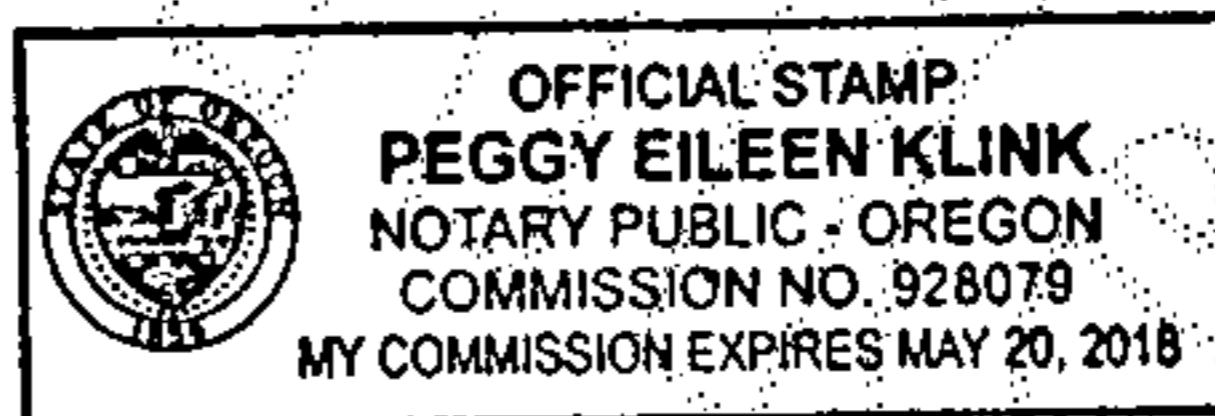
U.S. Bank Trust Company, National Association

BY: Tracy Kraus
Tracy Kraus, Assistant Commercial Officer

State of OREGON
County of Multnomah

This instrument was acknowledged before me on this 8th day of April, 2015 by Tracy Kraus, Assistant Commercial Officer of U.S. Bank Trust Company, National Association.

Peggy E. Klink
Notary Public for the State of OREGON



RECORDING REQUESTED BY;
REJECTIONS TO BE RETURNED TO:
U.S. Bank, Lending & Foreign Exchange Services
P.O. Box 5308
Portland, OR 97228

This Indenture, Made the 11th day of April A. D. 1964,

between JACK D. PORTER as Sheriff of King County, State of Washington, party of the first part, and John Mucklestone

the party... of the second part:

WITNESSETH, That, whereas, by virtue of a writ of execution issued out of and under the seal of the Superior Court of King County, State of Washington, holding terms at Seattle, dated the 13th day of February, 1963, upon a judgment recovered in said Court on the 13th day of February, 1963, in favor of the plaintiff and against the defendant^s, in Cause No. 596147 of said Court, entitled

General Electric Credit Corporation, Plaintiff, vs. Dale K. Adams, and the marital community composed of Dale K. Adams and Diane E. Adams, and Hugh Heideffer and Jane Dow Heideffer, his wife, d/h/a Pyramid Company, a partnership, Defendants,

to the Sheriff of King County, Washington, directed and delivered, commanding him to levy upon, seize and take into execution the personal property of said Dale K. Adams and the marital community composed of Dale K. Adams and Diane E. Adams, in said King County and make sale thereof according to law; and if sufficient personal property could not be found, then to make the amount of said judgment, interest and increased interest, costs and increased costs, out of real property of said defendants, not exempt

by law, and after diligent search and inquiry said Sheriff was unable to find any personal property of said defendants and thereupon said Sheriff by virtue of said writ of execution duly levied upon and sold, pursuant to due and legal notice of sale first given, at public auction on the 5th day of April, 1964, between the hours of 2 o'clock in the morning and 4 o'clock in the afternoon of that day to wit: at the hour of 1:00 o'clock A. M., in front of the King County Court House door in the City of Seattle, King County, State of Washington, all the lands and premises hereinafter described, at which sale said lands and premises were struck off and sold to John Mucklestone

for the sum of Fifty and no/100 (50.00) Dollars, lawful money of the United States of America, being the highest bid, and said sum of money being the highest and best sum bid therefor. And said Sheriff, after receiving from said purchaser, said sum of money so bid, gave to said John Mucklestone such certificate of purchase as is required by law to be given.

AND, WHEREAS, on the 26th day of April, 1964, said Superior Court, by an order duly made and entered of record, confirmed said sale

522695

NOW THEREFORE, The said party of the first part, by virtue of said writ of execution, and of said order of confirmation, and in pursuance of the statute in such case made and provided, and for and in consideration of said sum of money paid to ~~James~~ Donald R. Sprinkle, the then Sheriff, as aforesaid, by said purchaser at said sale has granted, bargained, sold, conveyed and confirmed, and by these presents does grant, bargain, sell, convey and confirm, unto the said part y of the second part, and to his heirs and assigns forever, all those certain lots, pieces or parcels of land, situate, lying and being in King County, State of Washington, bounded and described as follows, to-wit:

That portion of north half of vacated block 2 and south half of vacated Rose Street formerly Orchard Street adjoining, South Park, according to plat recorded in volume 1 of plats, page 87, in King County, Washington; EXCEPT portion conveyed to State of Washington by deed recorded under auditor's file No. 4852649; and EXCEPT the east 70 feet of the north 91 feet thereof;

Handwritten notes:
1/10/22
1/10/22
1/10/22
1/10/22

together with all and singular the tenements, hereditaments and appurtenances thereto belonging.

TO HAVE AND TO HOLD the said premises, with the appurtenances, unto the said part y of the second part and to his heirs and assigns forever, as fully and absolutely as said Sheriff can, may or ought to by virtue of said writ, order of confirmation, and the statute in such case made and provided, grant, bargain, sell, convey and confirm the same.

IN WITNESS WHEREOF, the said party of the first part has hereunto set his hand and seal, and the day and year first above written.

Signed, Sealed and Delivered in presence of

Handwritten signatures:
G. W. ...
...

Handwritten signature: Jack W. ...
Seal: SHERIFF OF KING COUNTY, WASHINGTON
JAN 10 1922

Sheriff of King County, State of Washington.

State of Washington, } ss.
County of King.

I, William A. Johnston, Deputy County Auditor of King County, State of Washington, duly appointed and sworn, residing at Seattle, in said State, do hereby certify that on this 11th day of April, 1964, personally appeared before me JACK D. PORTER, to me known to be the individual described in and who, as Sheriff of King County, State of Washington, executed the foregoing instrument, and acknowledged to me that he signed and sealed said instrument as his free and voluntary act and deed for the uses and purposes therein mentioned.

Given under my hand and official seal this 11th day of April, 1964.



William A. Johnston

Deputy County Auditor for King County, Washington, residing at Seattle



THIS IS RETURNED BY REGISTER
REQUEST OF JAMES MORRIS
ROBERT A. MORRIS, County Auditor

5849069

LAWYERS
TITLE INSURANCE
CORPORATION
SEATTLE, WASHINGTON

Filed for Record at Request of

FILE FOR RECORD AT THE REQUEST OF
LAWYERS TITLE INSURANCE CORPORATION
1105 SECOND AVENUE SEATTLE 1, WASHINGTON

NOT RECORDED FOR RECORDER'S USE
VOL. 4630 PAGE 93
REQUEST OF
1965 MAR 1 AM 8 30
ROBERT A. MORRIS AUDITOR
KING COUNTY WASH.
DEPUTY

5849069
2/25/65
203046

NAME OFELL H. JOHNSON
ADDRESS 900 United Pacific Building
CITY AND STATE Seattle, Washington 98104



OHJ:brm

Form 114

Quit Claim Deed

THE GRANTOR, DIANE E. ADAMS, a single woman,

for and in consideration of to clear title

conveys and quit claims to ALBERT HUGHES and IVA HUGHES, his wife,

the following described real estate, situated in the County of King,
State of Washington, including any after acquired title:

That portion of the north half of vacated Block 2, South Park, according to plat recorded in Volume 4 of Plats, Page 87, records of King County, Washington; and south half of vacated Rose Street, formerly Orchard Street, adjoining, and also the north half of vacated alley adjoining lots platted as Lots 1 through 13 inclusive, all lying westerly of the southwesterly margin of that tract of land conveyed to State of Washington for Pacific Highway No. 1, under instrument recorded under Auditor's File No. 4965539.

This deed is executed and delivered for the purpose of clearing title to the above-described real estate which was included in an erroneous description of property described in deed filed of record as King County Auditor's File No. 5449710 and in subsequently recorded documents.

Dated this 25th day of February 1965.

NO SALES TAX
REQUIRED
SEE ID. 5849069
FEB 25 1965
J. R. WILLIAMS
Notary Public
King County, Wash.

Diane E. Adams (SEAL)
..... (SEAL)

STATE OF WASHINGTON
County of KING

On this 25th day of February 1965, before me, the undersigned,

a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared
DIANE E. ADAMS,

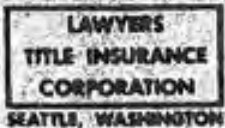
to me known to be the individual described in and who executed the foregoing instrument, and acknowledged to me that she signed and sealed this said instrument as her free and voluntary act and deed for the uses and purposes therein mentioned.



hand and official seal this

25th day of February 1965.
J. R. Williams
Notary Public in and for the State of Washington,
residing at

5849068



Filed for Record at Request of

Mail to

NAME OFELL H. JOHNSON
ADDRESS 900 United Pacific Building
CITY AND STATE Seattle, Washington 98104

FILED FOR RECORD AT THE REQUEST OF
LAWYERS TITLE INSURANCE CORPORATION
1100 SECOND AVENUE, SEATTLE 1, WASHINGTON



OHJ:brm

Form 114

Quit Claim Deed

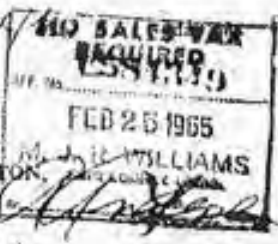
THE GRANTORS, DALE K. ADAMS and ARLENE R. ADAMS, his wife,

for and in consideration of to clear title
convey and quit claim to ALBERT HUGHES and IVA HUGHES, his wife,
the following described real estate, situated in the County of King,
State of Washington, including any after acquired title:

That portion of the north half of vacated Block 2, South Park
according to plat recorded in Volume 4 of Plats, Page 87, records
of King County, Washington; and south half of vacated Rose Street,
formerly Orchard Street adjoining, and also the north half of
vacated alley adjoining lots platted as Lots 1 through 13 in-
clusive, all lying westerly of the southwesterly margin of that
tract of land conveyed to State of Washington for Pacific Highway
No. 1, under instrument recorded under Auditor's File No. 4965539.

This deed is executed and delivered for the purpose of clearing
title to the above-described real estate which was included in
an erroneous description of property described in deed filed of
record as King County Auditor's File No. 5449710 and in subse-
quently recorded documents.

Dated this 24th day of February 1965.



Robert Adams (SRAL)
Arlene Adams (SRAL)

STATE OF WASHINGTON
County of KING

On this 24th day of February 1965, before me, the undersigned,

Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared
DALE K. ADAMS and ARLENE R. ADAMS,

to me known to be the individual described in and who executed the foregoing instrument, and acknowl-
edged to me that they signed and sealed this said instrument as their free and voluntary act and
deed for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 24th day of February 1965.



Notary Public in and for the State of Washington,
residing at

5849067

5849067

VOL 4630 PAGE 91

LAWYERS
TITLE INSURANCE
CORPORATION
SEATTLE, WASHINGTON

Filed for Record at Request of

NAME OFELL H. JOHNSON
ADDRESS 900 United Pacific Building
CITY AND STATE Seattle, Washington 98104

FILED FOR RECORD AT THE REQUEST OF
LAWYERS TITLE INSURANCE CORPORATION
1000 SECOND AVENUE, SEATTLE 1, WASHINGTON

THIS SPACE RESERVED FOR RECORDER'S USE
RECORDED
VOL. 4630
PAGE 91
1965 MAR 1 AM 8 30
ROBERT A. MORRIS ASST.
KING COUNTY WASH.
CLERK



OHJ:brm

Form 118

Quit Claim Deed

THE GRANTOR S. JOHN MUCKLESTONE and PATRICIA J. MUCKLESTONE, his wife,

for and in consideration of _____ to clear title
convey and quit claim to ALBERT HUGHES and IVA HUGHES, his wife,

the following described real estate, situated in the County of King,
State of Washington, including any after acquired title:

That portion of the north half of vacated Block 2, South Park, according to plat recorded in Volume 4 of Plats, Page 87, records of King County, Washington, and south half of vacated Rose Street, formerly Orchard Street adjoining, and also the north half of vacated alley adjoining lots platted as Lots 1 through 13 inclusive, all lying westerly of the southwesterly margin of that tract of land conveyed to State of Washington for Pacific State Highway No. 1, under instrument recorded under Auditor's File No. 4965539.

This deed is executed and delivered for the purpose of clearing title to the above-described real estate which was included in an erroneous description of property described in deed filed of record as King County Auditor's File No. 5449710 and in subsequently recorded documents.

Dated this _____ day of February 1965,
John Mucklestone (SEAL)
Patricia Mucklestone (SEAL)

NO SALES TAX
REQUIRED
SEE REG. 4501347
FEB 25 1965
M. L. R. WILLIAMS
Notary Public

STATE OF WASHINGTON
County of KING

On this 7th day of February 1965, before me, the undersigned,

a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared
JOHN MUCKLESTONE AND PATRICIA J. MUCKLESTONE,

to me known to be the individuals described in and who executed the foregoing instrument, and acknowledged to me that they signed and sealed this said instrument as their free and voluntary act and deed for the uses and purposes therein mentioned.

By my hand and official seal this _____ day of February 1965.



Lenore Punnett
Notary Public in and for the State of Washington,
residing at Seattle.

2.00

FILE

MAR-10-65 00425 5853099

LAWYERS
TITLE INSURANCE
CORPORATION
SEATTLE, WASHINGTON

5853099

4633 479

THIS SPACE RESERVED FOR RECORDER'S USE
RECORDED
VOL. 10 PAGE 325
REC'D
MAR 10 1965
KING COUNTY WASH. DEPUTY



Filed for Record at Request of

NAME Chell H. Johnson
ADDRESS 400 United Vanier Bldg
CITY AND STATE Seattle, Wash 98109



DHJ:brm

Statutory Warranty Deed

THE GRANTOR S, ALBERT HUGHES and IVA F. HUGHES, his wife,

for and in consideration of TEN DOLLARS (\$10.00)

in hand paid, conveys and warrants to CLEM LAVOY and OPA! LAVOY, his wife, and SAFE INVESTMENT CO., a Washington corporation the following described real estate, situated in the County of King, State of Washington.

That portion of the north half of vacated Block 2, South Park according to plat recorded in Volume 4 of Plats, Page 87, records of King County, Washington; and south half of vacated Ross Street, formerly Orchard Street adjoining, and also the north half of vacated alley adjoining lots platted as lots 1 through 13 inclusive, all lying westerly of the southwesterly margin of that tract of land conveyed to State of Washington for Pacific Highway No. 1, under instrument recorded under Auditor's File No. 4965539.

Subject to general taxes for the year 1965 in the amount of \$48.03 and subject also to relinquishment of right of access to State Highway and of light, view and air under terms of deed to the State of Washington, recorded November 14, 1958 under Auditor's File No. 4965539

SALES TAX LIEN PAID

And that 3rd day of March 1965,

MAR 10 1965

STATE OF WASHINGTON
County of KING
BY [Signature] KING COUNTY TREASURER
DEPT. NO. 15243112

On this 3rd day of March 1965

appeared before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared ALBERT HUGHES and IVA F. HUGHES,

to me known to be the individuals described in and who executed the foregoing instrument, and acknowledged to me that they signed and sealed this said instrument as their free and voluntary act and deed for the uses and purposes therein mentioned

GIVEN under my hand and official seal this 10 day of March 1965.



Notary Public in and for the State of Washington, residing at Seattle.

JUN-10 66 00343 6012102 2.00

4798 PAGE 240

QUIT CLAIM DEED

RECORDED VOL. PAGE REGIST. OF

6040462

1966 JUN 10 PM 2

ROBERT A. MORRIS AUD. KING COUNTY WASH. DEPT.

Washington Title Insurance Company SEATTLE, WASHINGTON

FILED at Request of Name: Kenneth R. MacDonald Address: 15711 floor, Hugo S. Bldg Seattle, Wash. 98104

Made to Send Tax Statement to

Form L96 n

Quit Claim Deed

THE GRANTOR DAVID W. DAVIS for and in consideration of No consideration conveys and quit claims to PATRICIA G. DAVIS the following described real estate, situated in the County of King

State of Washington including any interest therein which grantor may hereafter acquire:

That portion of the north half of vacated Block 2, South Park according to plat recorded in Volume 4 of Plats, page 87, records of King County, Washington; and south half of vacated Rose Street, formerly Orchard Street adjoining, and also the north half of vacated alley adjoining lots platted as Lots 1 through 13 inclusive, all lying westerly of the southwesterly margin of that tract of land conveyed to State of Washington for Pacific Highway No. 1, under instrument recorded under Auditor's File No. 4965539.

This Deed is given to carry out the provisions of that certain divorce decree entered under Cause No. 652,476 in King County, Washington on June 1, 1966. No consideration has been paid and no tax is due.

NOTES TAX REQUIREMENTS JUN 10 1966 M. J. WILLIAMS STATE OF WASHINGTON County of King

day of June, 1966. David W. Davis (seal)

On this day personally appeared before me DAVID W. DAVIS to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that he signed the same as his free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this day of July, 1966. John E. Wickus Notary Public in and for the State of Washington, residing at Seattle.

No. 19658

TREASURER'S DEED

STATE OF WASHINGTON

County of King

THIS INDENTURE, Made this 21st day of October 1968
between M. J. R. WILLIAMS as treasurer of King County, State of Washington, the party
of the first part, and RUBY M. NEWTON
party of the second part.

WITNESSETH, That whereas, at a public sale of real estate, held on the 21st day of
October A. D. 1968, pursuant to an order of the Board of County Commis-
sioners of the County of King, State of Washington, duly made and entered, and after having first given due
notice of the time, the place and terms of said sale, and whereas, in pursuance of said order of the said Board
of County Commissioners, and the laws of the State of Washington, and for and in consideration of the sum
of THIRTY SEVEN THOUSAND AND 00/100 (\$37,000.00) DOLLARS,
lawful money of the United States of America, to me in hand paid, the receipt whereof is hereby acknowl-
edged, I have this day sold to RUBY M. NEWTON, Successor in Interest of
the following described real estate, and which said real estate is the property of King County, and which is
particularly described as follows, to-wit:

[Faded description of real estate, including lot numbers and street names]

the said RUBY M. NEWTON, Successor in Interest of Ruby M. Newton being the highest and
best bidder at said sale, and the said sum being the highest and best sum bid at said sale.

NOW, THEREFORE, know ye that I, M. J. R. WILLIAMS, County Treasurer of
said County of King, State of Washington, in consideration of the premises and by virtue of the statutes of
the State of Washington, in such cases made and provided, do hereby grant and convey unto
RUBY M. NEWTON, her heirs and assigns, forever, the said real estate herein-
before described, as fully and completely as the said party of the first part can by virtue of the premises
convey the same.

Given under my hand and the seal of office this 21st day of October
A. D. 1968.



M. J. R. WILLIAMS
County Treasurer
By [Signature] Deputy

Filed for Record October 24 1968
Request of Ruby M. Newton
ROBERTA MORRIS, County Auditor



SECURITY TITLE INSURANCE

Filed for Record at Request of

7302150006

MAIL TO: SECURITY TITLE ESCROW DEPT. ESCROW # 21690 RS

THIS SPACE RESERVED FOR RECORDER'S USE
REQUEST OF
973 FEB 15 11 18 00
ELECTRONIC FILING CO. WA
OLDFILLY

FILED for Record at Request of SECURITY TITLE INS. CO. SEATTLE, WASH. STATUTORY

MARCIA N. CAGLE, formerly MARCIA N. SATHER, as her separate estate, THE GRANTOR - CLEN LAVOY and OPAL LAVOY, his wife, and SAFE INVESTMENT CO., a corporation.

for and in consideration of Ten Dollars and other good and valuable consideration

to have paid, convey and warrant to RUDY H. NEWTON, a single person

as grantee, the following described real estate, situated in the County of King State of Washington

Vacated lots 17 to 21, inclusive, together with north half of vacated street adjoining to the north with the south half of vacated alley adjoining all in vacated Block 2 and vacated lots 17 to 21 inclusive, together with south half of vacated street adjoining also together with north half of vacated alley adjoining all in vacated Block 3, All in South Park, according to plat recorded in Volume 4 of Plats, page 97, records of King County, Washington, EXCEPT that portion conveyed for street purposes by instrument recorded under Auditor's File No. 319606, and

EXCEPT portion taken for West Marginal Way under King County Superior Court Cause No. 512457, and

EXCEPT all that portion of the following described parcel "A" lying northwesterly of a line 170 feet parallel 1st, and 90 feet southwestly, when measured at right angles from the centerline of Primary State Highway No. 1, South 1st Street to Lot 37, 1-8,

PARCEL "A": Lots 17 to 21 inclusive, All in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 97, in King County, Washington, EXCEPT the South 31 feet of said lots 17 to 21 inclusive, and

EXCEPT the north half of vacated alley adjoining said vacated Block 3; EXCEPT those portions thereof lying within West Marginal Way; and

EXCEPT that portion thereof condemned by the State of Washington for highway purposes in the County Superior Court Cause No. 512467 conveyed by deed recorded under Auditor's File No. 332016.

Grantor reserves an easement over said vacated lots 17 through 21, inclusive, in vacated Block 2 of South Park and the south half of the vacated alley adjoining to connect with Arain over said land by connecting water drain pipe and extending connection over the north line of said land into land adjoining on the north owned by the grantors, Glen Lavooy and Opal Lavooy, his wife, and Safe Investment Co., a corporation.

Recorder's Note: Parts of instrument not dark enough for microfilm.

Legal Description attached.

SUBJECT TO: Lease recorded under Recording No. 5336584; Relinquishment of all existing, future or potential easements for access, light, view and air, and all rights of ingress, egress and regress to, from and between said premises and the highway or highways to be constructed on lands condemned by proceedings under King County Superior Court Cause No. 515467 to State of Washington; and, Relinquishment of all existing, future or potential easements for access, light, view and air, and all rights of ingress, egress and regress to, from and between said premises and the highway or highways to be constructed on lands conveyed by Deed recorded under Recording No. 5320164 to The State of Washington.

Dated this 17th day of January, 1973

day of January, 1973

Safe Investment Co., a corporation

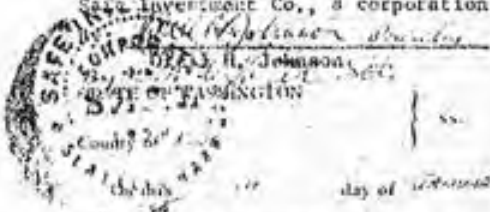
Arthur N. Cagle

Harold N. Cagle

Clem LaVoy (SEAL)

Opal LaVoy

Opal LaVoy



the day of January, 1973

before me, the

undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared

Clem LaVoy and Opal LaVoy

to me known to be the individuals who executed the foregoing instrument, and acknowledged to me that they signed and sealed this said instrument as their free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and seal of office



day of January, 1973

Arthur N. Cagle

Notary Public in and for the State of Washington, residing at 500 1st



STATE OF WASHINGTON

County of King



On this 19 day of JANUARY, 1972, before me personally appeared JOHN W. GAGNE, who executed the within instrument as Attorney in Fact for MARCELO N. CAGLE and acknowledged to me that he signed and sealed the same as his free and voluntary act and deed as attorney in fact for MARCELO N. CAGLE for the uses and purposes therein mentioned, and on oath stated that the power of attorney authorizing the execution of this instrument has not been revoked and that the said MARCELO N. CAGLE is now living, and is not insane.

Given under my hand and official seal the day and year last above written.

Arthur S. Quinn
(Signature)
Notary Public in and for the State of Washington, residing at Seattle

Form 1-68 Security Title Insurance Company of Washington - ACKNOWLEDGMENT - ATTORNEY IN FACT

730215008

STATE OF WASHINGTON

County of King



On this 19 day of JANUARY, A. D., 1972 before me personally appeared WILL H. JOHNSON AND RON W. GARDNER to me known to be the PRESIDENT AND MANAGING DIRECTOR of the corporation that executed the within and foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation for the uses and purposes herein mentioned, and on oath stated that THEY were authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day written.

Arthur S. Quinn
(Signature)
Notary Public in and for the State of Washington, residing at Seattle

Form 1-68 Security Title Insurance Company of Washington - ACKNOWLEDGMENT - CORPORATION

740-103005



RECORDED
REQUEST OF

JANICE

Filed for Record 1974 JAN 10 AM 8 00

NAME: FILED for Record at Request of
ADDRESS: SAFECO TITLE INS. CO.
CITY AND STATE: SEATTLE, WASH.

THIS SPACE RESERVED FOR RECORDER'S USE
1973 FEB 15 AM 8 00
4.30

SECURITY TITLE INSURANCE COMPANY

FILED for Record at Request of
SECURITY TITLE INS. CO. STATUTORY
SEATTLE, WASH.

MARCIA E. CAGLE, formerly MARCIA N. BATHEN, as her separate estate,
THE GRANTOR GLEN LAVOY and OPAL LAVOY, his wife, and SAFE INVESTMENT CO.,
a corporation

for and in consideration of Ten Dollars and other good and valuable consideration

in hand paid, conveys and warrants to RUBY M. NEWCOM, a single woman

as Grantee, the following described real estate, situated in the County of King
State of Washington

Vacated Lots 33 to 38, inclusive, together with north half of vacated street
adjoining and together with the south half of vacated alley adjoining all in
vacated Block 2 and vacated Lots 17 to 21 inclusive, together with south half
of vacated street adjoining and together with north half of vacated alley
adjoining all in vacated Block 3, ALL in South Park, according to plat
recorded in Volume 4 of Plats, page 87, records of King County, Washington.

EXCEPT that portion conveyed for street purposes by instrument recorded under
Auditor's File No. 3186886, and
EXCEPT portion taken for West Marginal Way under King County Superior Court
Cause No. 515467, and
EXCEPT the south 31 feet of said lots 17 to 21, inclusive, and
EXCEPT the North half of vacated alley adjoining said vacated Block 3;
EXCEPT those portions thereof lying within West Marginal Way; and
EXCEPT that portion thereof condemned by the State of Washington for highway
purposes in King County Superior Court Cause No. 515467 conveyed by deed
recorded under Auditor's File No. 5320164;

EXCEPT all that portion of the following described Parcel "A" lying
northeasterly of a line drawn parallel with and 90 feet southwesterly, when
measured at right angles from the centerline of Primary State Highway No. 1,
South 118th Street to Jct. S5H-1-K,
PARCEL "A": Lots 17 to 21 inclusive, All in vacated Block 3, South Park,
according to plat recorded in Volume 4 of Plats, page 87, in King County,
Washington.

Grantor reserves an easement over said vacated lots 33 through 38, inclusive,
in vacated Block 2 of South Park and the south half of the vacated alley
adjoining to connect with drain over said land by connecting with drain pipe
and extending connection over the north line of said land into land adjoining
on the north owned by the grantors, Glen LaVoy and Opal LaVoy, his wife, and
Safe Investment Co., a corporation.

NO SALES TAX
FILE No. 1277166
JAN - 9 1974
OFFICE OF THE COMPTROLLER
King County, Washington

Legal description attached.

7401100003

SUBJECT TO: Lease recorded under Recording No. 5336584; Relinquishment of all existing, future or potential easements for access, light, view and air, and all rights of ingress, egress and regress to, from and between said premises and the highway or highways to be constructed on lands condemned by proceedings under King County Superior Court Cause No. 513467 to State of Washington; and, Relinquishment of all existing, future or potential easements for access, light, view and air, and all rights of ingress, egress and regress to, from and between said premises and the highway or highways to be constructed on lands conveyed by Deed recorded under Recording No. 5320164 to the State of Washington.

Dated this 17th day of January, 1973
State Investment Co., a corporation
by Clara H. Johnson
Clara H. Johnson
Opal LaVoy
Opal LaVoy (SEAL)



day of January, 1973, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared Clara LaVoy and Opal LaVoy

to me known to be the individuals who executed the foregoing instrument, and acknowledged to me that they signed and attested to said instrument for the purposes therein mentioned.

GIVEN under my hand and official seal this 17th day of January, 1973
Clara H. Johnson
Notary Public in and for the State of Washington, residing at Seattle



740100005

STATE OF WASHINGTON

County of King } ss.



On this 28 day of February, 1933, before me personally appeared Walter H. Cogle, who executed the within instrument as Attorney in Fact for Harold N. Cogle and acknowledged to me that he signed and sealed the same as his free and voluntary act and deed as attorney in fact for Harold N. Cogle for the uses and purposes therein mentioned, and on oath stated that the power of attorney authorizing the execution of this instrument has not been revoked and that the said Harold N. Cogle is now living, and is not insane.

Witness under my hand and official seal the day and year last above written.
(Seal)

Walter S. Quinn
(Signature)



Notary Public in and for the State of Washington, residing at Seattle

TL-37 1102 Security Title Insurance Company of Washington - ACKNOWLEDGMENT - ATTORNEY IN FACT

STATE OF WASHINGTON

County of King } ss.

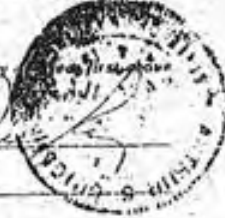


On this 19 day of February, A. D., 1933, before me personally appeared Carl H. Johnson, to me known to be the President of the corporation that executed the within and foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation for the uses and purposes therein mentioned, and on oath stated that he is authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day written.

Walter S. Quinn

Notary Public in and for the State of Washington, residing at Seattle



TL-35 1146 Security Title Insurance Company of Washington - ACKNOWLEDGMENT - CORPORATION

Pioneer National
Title Insurance Company

WASHINGTON TITLE DIVISION

to record
REAL ESTATE CONTRACT

CORPORATE FORM

Recorded *9/1/71*
Highway No. 2 7108190338

3.110.28-16

THIS CONTRACT made and entered into this 12th day of August 1971

between O-N-C MOTOR FREIGHT SYSTEM, a California corporation,

hereinafter called the "seller," and RUBY M. NEWTON, a widow,

hereinafter called the "purchaser,"

WITNESSETH: That the seller agrees to sell to the purchaser and the purchaser agrees to purchase from the seller the following described real estate, with the appurtenances, in King County, State of Washington:

See legal description hereto attached and by this reference incorporated herein

7404100032

Handwritten notes:
D-932052
7-16
3/11/71
26777-45
-26

The terms and conditions of this contract are as follows: The purchase price is EIGHTY-EIGHT THOUSAND FIVE HUNDRED TEN and no/100 (\$88,510.00) Dollars, of which Twenty-Five Thousand and no/100 (\$25,000.00) Dollars have been paid, the receipt whereof is hereby acknowledged, and the balance of said purchase price shall be paid as follows:
Five Hundred Dollars \$500.00 Dollars, or more at purchaser's option, on or before the 1st day of September, 1971,
and Five Hundred Dollars \$500.00 Dollars, or more at purchaser's option, on or before the 1st day of each succeeding calendar month until the balance of said purchase price shall have been fully paid. The purchaser further agrees to pay interest on the diminishing balance of said purchase price at the rate of SEVEN (7) per cent per annum from the 1st day of August, 1971, which interest shall be deducted from each installment payment and the balance of each payment applied in reduction of principal. All payments to be made hereunder shall be made at 2800 Bayshore Road, Palo Alto, California 94303 or at such other place as the seller may direct in writing.

Notwithstanding other provisions herein to the contrary, the purchase price shall, however, in any event be paid in full, including interest, within seven (7) years, six (6) months hereof, namely, by February 1, 1979, except under provision of balloon payment waiver provisions below described.

See Rider hereto attached for additional provisions hereof.

NO SALES TAX
\$2561.00

As referred to in this contract, the date is August 1, 1971.

(1) The purchaser agrees to pay before delinquency all taxes and assessments that may be levied hereafter become a lien on said real estate, and if by the terms of this contract the purchaser has assumed payment of such taxes and assessments, the purchaser shall be obligated to pay the same before delinquency.

(2) The purchaser agrees to keep the building now and hereafter placed on the real estate insured to the full purchase price to protect against fire and damage by both fire and windstorm in a company acceptable to the seller, and to pay all premiums therefor and to deliver all policies and receipts to the seller.

(3) The purchaser agrees that full inspection of said real estate has been made and that neither the seller nor his agents have made to any covenant regarding the condition of any improvements thereon nor shall the purchaser or seller or the agents of either be held to any covenant or agreement for alterations, improvements or repairs unless the covenant or agreement relied on is contained herein or is in writing and attached hereto as a part of this contract.

(4) The purchaser agrees to indemnify and hold the seller harmless from and against all claims, damages, losses, and expenses, including reasonable attorney's fees, that may be incurred by the seller as a result of any fire, explosion, or other cause of damage or destruction of any improvements now or hereafter placed on said real estate, and to pay all such claims, damages, losses, and expenses, including reasonable attorney's fees, that may be incurred by the seller as a result of any fire, explosion, or other cause of damage or destruction of any improvements now or hereafter placed on said real estate, and to pay all such claims, damages, losses, and expenses, including reasonable attorney's fees, that may be incurred by the seller as a result of any fire, explosion, or other cause of damage or destruction of any improvements now or hereafter placed on said real estate.

(5) The seller has caused to be placed within 10 days of the date of closing a purchaser's policy of title insurance in standard form, the cost of which shall be borne by the purchaser. The title insurance policy shall be issued to the purchaser in the full amount of the purchase price, and shall be binding on the purchaser from the date of closing and continue in full force and effect until the date of closing and continue in full force and effect until the date of closing.

(6) The seller has caused to be placed within 10 days of the date of closing a purchaser's policy of title insurance in standard form, the cost of which shall be borne by the purchaser. The title insurance policy shall be issued to the purchaser in the full amount of the purchase price, and shall be binding on the purchaser from the date of closing and continue in full force and effect until the date of closing and continue in full force and effect until the date of closing.



THIS INSTRUMENT IS VALID IN ALL STATES OF THE UNITED STATES AND IN ALL TERRITORIES AND POSSESSIONS OF THE UNITED STATES AND IN ALL COUNTRIES TO WHICH THE UNITED STATES HAS JURISDICTION. THIS INSTRUMENT IS VALID IN ALL STATES OF THE UNITED STATES AND IN ALL TERRITORIES AND POSSESSIONS OF THE UNITED STATES AND IN ALL COUNTRIES TO WHICH THE UNITED STATES HAS JURISDICTION.

See legal description hereto attached

740410032

(8) Unless a different date is provided for the time of the purchase of the real estate, the time of the purchase of the real estate shall be the date of the deed to the purchaser, and the time of the purchase of the real estate shall be the date of the deed to the purchaser, and the time of the purchase of the real estate shall be the date of the deed to the purchaser.

(9) In case the purchaser fails to make any payment herein provided or to maintain insurance, as herein required, the seller may make such payment or effect such insurance, and any amounts so paid by the seller, together with interest at the rate of 10% per annum thereon from date of payment until repaid, shall be repayable by purchaser on seller's demand, all without prejudice to any other right the seller might have by reason of such default.

(10) Time is of the essence of this contract, and it is agreed that in case the purchaser shall fail to comply with or perform any condition or agreement hereof or to make any payment required hereunder promptly at the time and in the manner herein required, the seller may elect to declare all the purchaser's rights hereunder terminated, and upon his doing so, all payments made by the purchaser hereunder and all improvements placed upon the real estate shall be forfeited to the seller as liquidated damages, and the seller shall have right to re-enter and take possession of the real estate; and no waiver by the seller of any default on the part of the purchaser shall be construed as a waiver of any subsequent default.

Service upon purchaser of all demands, notices or other papers with respect to foreclosure and termination of purchaser's rights may be made by United States Mail, postage pre-paid, return receipt requested, directed to the purchaser at his address last known to the seller.

(11) Upon seller's election to bring suit to enforce any covenant of this contract, including any covenant to collect any payment required hereunder, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, which sums shall be included in any judgment or decree entered in such suit.

If the seller shall bring suit to procure an adjudication of the termination of the purchaser's rights hereunder, and judgment is so entered, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, and also the reasonable cost of searching records to determine the condition of title at the date such suit is commenced, which sums shall be included in any judgment or decree entered in such suit.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date first written above.

O-N-C MOTOR FREIGHT SYSTEM
 a California corporation
 By David P. Roush President
 By Burdens Cook Secretary
Ruby M. Gurlon

CALIFORNIA
 STATE OF WESTMEXICO } ss.
 County of Santa Clara

On this 12th day of August 1971, personally appeared
 David P. Roush and Burdens Cook
 to me known to be the President and Secretary, respectively, of
 the corporation that executed the foregoing instrument, and acknowledged said instrument to be the free and voluntary
 act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that
 authorized to execute the said instrument and that the seal affixed is the corporate seal of said corporation.

In Witness Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.

OFFICIAL SEAL
 WANDA M. SUMMERS
 Notary Public - California
 Santa Clara County
 My Commission Expires Nov. 19, 1972
 2200 West Bayshore Dr. - San Jose - Calif. 95128

Wanda M. Summers
 Notary Public in and for the State of California
 residing at _____



LEGAL DESCRIPTION RIDER TO
O-N-C MOTOR FREIGHT SYSTEM--RUBY H. NEWTON CONTRACT

7404100032

The South ~~2000~~⁵¹⁵ feet in width as measured from the Northerly margin of Kenyon Street of that portion of Government Lot 16, Section 29, Township 24 North, Range 4 East, W.M., in King County, Washington, described as follows:

Beginning at the Southeast corner of said Government Lot 16, thence Northerly along the Westerly line of George Holt Donation Claim No. 51, a distance of 60.03 feet to the Northerly margin of Kenyon Street; thence North 89°12'59" West along said margin of Kenyon Street 424.52 feet to the true point of beginning of this description; thence North 89°12'59" West 200 feet; thence North 0°01'30" West 217.25 feet to the point of curvature of a curve to the right having a radius of 1810 feet; thence Northeasterly along the arc of said curve to the right 416.07 feet to the point of tangency; thence North 13°02'45" East 201.91 feet; thence South 60°00'00" East to a point which bears North 2°01'25" East from the true point of beginning; thence South 2°01'26" West to the true point of beginning; ~~thence South 2°01'26" West to the true point of beginning;~~

SUBJECT TO: Last half of general taxes for the year 1971;

Relinquishment of right of access to State Highway and of light, view and air, under terms of Deed to the State of Washington recorded October 23, 1958, Auditor's No. 4957813;

Right, title and interest of O-N-C Motor Freight System presumed from the application which refers to it as the owner of said premises.

-- END OF LEGAL DESCRIPTION --

RIDER TO

O-N-C MOTOR FLIGHT SYSTEM BUBY M. NEWTON CONTRACT

1. Balloon Payment Waiver Provisions.

If none of the following three conditions are possible of fulfillment, even after the exertion of the buyer's best reasonable efforts, then the above-mentioned provision for balloon cash-out payment at the end of said seven years, six months period shall have no effect and the balance of the purchase price shall be paid under the monthly payment plan. Said three conditions are as follows:

a. The buyer's "Burien lot" hereinafter more particularly described cannot be sold within said seven years, six months period on reasonable terms.

b. The buyer's "South Park lot" hereinafter more particularly described cannot be sold within said seven years six months period on reasonable terms.

c. The buyer cannot borrow the necessary funds to make the said balloon cash-out payment from any reasonable source for any reasonable terms.

If said balloon payment cannot be made as above provided and provision for balloon payment should be waived, written proof of the inability to meet all of said three conditions shall be submitted by the buyer to the seller by the date said balloon payment is due.

2. Right of First Refusal Provisions.

The seller now gives the buyer the right of first refusal on the real estate described more particularly on the Rider hereto attached entitled "Legal Description to Right-of-First-Refusal Property." This property consists of approximately 43,215 sq. ft. of real estate, and the seller agrees to notify the buyer of the seller's receipt of a bona fide offer of purchase of said property, which shall be sent by the seller to the buyer at her last known address, by certified mail, return receipt requested.

The buyer shall then have a period of ten (10) days from the date of mailing said notice to notify the seller whether she wishes to purchase said "Right-of-First-Refusal Property" from the seller for the price and terms described in said bona fide offer of purchase notice, and if she does not so notify the seller within said period of time, then the seller is free to sell the property in question to the said bona fide offeror for said price and terms.

This right of first refusal shall be effective for a period of one (1) year from the date hereof, namely, until August 1, 1972, and shall be of no effect after said one-year period.

7404100032

3. Rules of Law Applicable.

This contract shall be governed and enforced by the laws of the State of Washington regardless of where this agreement is signed.

-- END OF RIDER --

7404100032

LEGAL DESCRIPTION OF
"RIGHT-OF-FIRST-REFUSAL PROPERTY"

That portion of Government Lot 16, Section 29, Township 24 North, Range 4 east, W.M., in King County, Washington, described as follows:

Beginning at the southeast corner of said Government Lot 16, thence northerly along the westerly line of George Holt Donation Claim No. 51, a distance of 60.03 feet to the northerly margin of Kenyon Street; thence north $89^{\circ}12'59''$ west along said margin of Kenyon Street 424.52 feet; to the true point of beginning of this description; thence north $89^{\circ}12'59''$ west 200 feet; thence north $0^{\circ}01'30''$ west 217.25 feet to the point of curvature of a curve to the right having a radius of 1810 feet; thence northeasterly along the arc of said curve to the right 416.07 feet to the point of tangency; thence north $13^{\circ}08'45''$ east 201.91 feet; thence south $60^{\circ}00'00''$ east to a point which bears north $2^{\circ}01'25''$ east from the true point of beginning; thence south $2^{\circ}01'25''$ west to the true point of beginning; EXCEPT that portion lying westerly of the easterly margin of an existing drainage ditch; and EXCEPT the south 515 feet in width as measured from the northerly margin of said Kenyon Street.

SUBJECT TO: Relinquishment of right of access to state highway and of light, view and air, under terms of deed to the State of Washington recorded October 23, 1958, under King County Auditor's File No. 4957813.

7404100032

LEGAL DESCRIPTION OF
"BURIEN LOT"

South 1/2 of the Northeast 1/4 of Southwest 1/4 of Northeast 1/4, Section 19, T. 23 N. R. 4 E., W.M., King County, Washington, lying South of the South line of the North 30 feet of said subdivision, being an unimproved lot 150 x 330 feet with access and drainage problems.

7404100U32

LEGAL DESCRIPTION OF
"SOUTH PARK LOT"

Lots 39 to 48 inclusive and portion of vacated street and alley, Block 2, South Park Addition; and vacated Lots 1 to 16 inclusive and portion of vacated street and alley adjoining, less portion to state of Washington, in Block 3, South Park Addition; being an unimproved tract covering a total of 97,500 square feet, in King County, Washington.

800

RECORDED

REQUEST OF

1974 APR 10 AM 8 00

FILED

7404100032

FILED for Record at Request of
SAFECO TITLE INS. CO.
SEATTLE, WASH.

FILED FOR RECORD AT REQUEST OF
SAFECO TITLE INSURANCE COMPANY
100 SECOND AVENUE, SEATTLE, WA 98101



E COMPANY

Filed for Record at Request of

NAME Tyrnn M. Long
ADDRESS 8726 So. 113rd St.
CITY AND STATE Seattle, Wa. 98178



WARRANTY
~~FULL-FULFILLMENT~~
DEED

THE GRANTOR Clem La Voy and Opal La Voy, his wife, and Safe Investment Company
for and in consideration of Thirty Five Thousand and 00/100 Dollars
in hand paid, conveys and warrants to Tyrnn M. Long

the following described real estate, situated in the County of King State of Washington

That portion of the North Half of vacated Block 2, South Park, according to the plat recorded in Volume 4 of Plats, Page 87, in King County, Washington; and South half of vacated Rose Street, formerly Orchard Street adjoining, and also the North Half of vacated alley adjoining Lots platted as Lots 1 through 13, inclusive, all lying westerly of the southwesterly margin of that Tract of land conveyed to State of Washington for Pacific State Highway No. 1, under instrument recorded under Auditor's File No. 4965539, Records of King County, Washington.

This Deed is subject to encumbrances and exceptions stated in Pioneer National Insurance Company report No. A-260779 Re: La Voy-Safe Investment Company / Long dated June 9, 1980.
This deed is given in fulfillment of that certain real estate contract between the parties hereto, dated 7/11/80, and conditioned for the conveyance of the above described property, and the covenants of warranty herein contained shall not apply to any title, interest or encumbrance arising by, through or under the purchaser in said contract, and shall not apply to any taxes, assessments or other charges levied, assessed or becoming due subsequent to the date of said contract.

Dated 7/11 1980
Clem La Voy (Individual)
Opal La Voy (Individual)

Safe Investment Co.
Jeanne M. Johnson (President)
Morris K. Johnson (Secretary)

STATE OF WASHINGTON } ss.
COUNTY OF King }
On this day personally appeared before me Clem La Voy and Opal La Voy, his wife
to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

STATE OF WASHINGTON } ss.
COUNTY OF King }
On this 8th day of July, 1980, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared Jeanne M. Johnson + Morris K. Johnson and _____ to me known to be the _____ President and _____ Secretary, respectively, of the corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they are authorized to execute the said instrument and that the seal affixed is the corporate seal of said corporation.
Witness my hand and official seal hereto affixed the day and year last above written.
Jeanne M. Johnson
Notary Public in and for the State of Washington, residing at Seattle

GIVEN under my hand and official seal this first day of July, 1980.
Margaret A. Shephard
Notary Public in and for the State of Washington, residing at Porter

8007210558

03 0 23 6 2 1 2 0 5 1 0 B MF

551

RECORDED THIS DAY

Jul 21 1 40 PM '80

BY THE CLERK OF
RECORDS & ELECTIONS
KING COUNTY

8007210558

QUITCLAIM DEED

32 Dec 19
RECD F
INDEX

40799
4.00
1100.00
25

The grantor, Manitou Equipment Co., an Oregon corporation incorporated on March 27, 1972, for lawful consideration, conveys and quitclaims to The Manitowoc Company, Inc., a Wisconsin corporation, all interest in the following described real estate:

Lots 34 through 48, inclusive, all in vacated Block 2, South Park, according to the plat recorded in Volume 4 of Plats, Page 87, in King County, Washington; together with that portion of the north half of vacated Helena Street adjoining said lots on the south; and together with that portion of the south half of vacated alley adjoining said lots on the north; except those portions of said lots, vacated alley and vacated street conveyed for street purposes by instrument recorded under Auditor's File No. 3186886; and except those portions of said lots, vacated alley and vacated street taken for West Marginal Way under proceedings had in KCSC Cause No. 515467.

Also lots 1 through 19, inclusive, all in vacated Block 3, South Park, according to the plat recorded in Volume 4 of Plats, Page 87, in King County, Washington; together with that portion of the south half of vacated Helena Street adjoining said lots on the north; except the south 31 feet of said lots 1 through 19, inclusive; except those portions of said lots and vacated street conveyed for street purposes by instrument recorded under Auditor's File No. 3186886; except those portions of said lots and vacated street conveyed to the state of Washington by deeds recorded under Auditor's File Nos. 5205490 and 5320164; and except those portions of said lots and vacated street taken

8206290399

RECORDED 11:11 AM
JUN 29 10 55 AM '82
BY THE CLERK OF
RECORDS & ELECTRONICS
KING COUNTY

KING COUNTY
NO EXCISE TAX
JUN 28 1982
E0680378

for West Marginal Way under proceedings had in KCSC
Cause No. 515467

situated in the county of King, state of Washington.

Dated this 24th day of December, 1980.

MANITOU EQUIPMENT CO.

By Arthur T. Church
Arthur T. Church, President

STATE OF OREGON)
) SS
COUNTY OF MULTNOMAH)

On this 24th day of December, 1980, before me personally appeared Arthur T. Church, to me known to be the president of the corporation that executed the within and foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of said corporation for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument on behalf of said corporation.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my official seal the day and year first above written.

S. K. Howell
Notary Public for Oregon
Place of residence:
My commission expires: 12/4/81

8206290399

8206290399

FILED for Record at Request of

return to Miller, Hansen & Fisher
900 SW 5th Ave
Portland Oregon 97204

BARGAIN AND SALE DEED

576
RECORDED
JUN 28 1982

The grantor, Manitou Investment Co., an Oregon corporation, for lawful consideration in hand paid, bargains, sells and conveys to The Manitowoc Company, Inc., a Wisconsin corporation, the following described real estate:

8206290398

Lots 34 through 48, inclusive, all in vacated Block 2, South Park, according to the plat recorded in Volume 4 of Plats, Page 87, in King County, Washington; together with that portion of the north half of vacated Helena Street adjoining said lots on the south; and together with that portion of the south half of vacated alley adjoining said lots on the north; except those portions of said lots, vacated alley and vacated street conveyed for street purposes by instrument recorded under Auditor's File No. 3186886; and except those portions of said lots, vacated alley and vacated street taken for West Marginal Way under proceedings had in KCSC Cause No. 515467.

Also lots 1 through 19, inclusive, all in vacated Block 3, South Park, according to the plat recorded in Volume 4 of Plats, Page 87, in King County, Washington; together with that portion of the south half of vacated Helena Street adjoining said lots on the north; except the south 31 feet of said lots 1 through 19, inclusive; except those portions of said lots and vacated street conveyed for street purposes by instrument recorded under Auditor's File No. 3186886; except those portions of said lots and vacated street conveyed to the state of Washington by deeds recorded under Auditor's File Nos. 5205490 and 5320154; and except those portions of said lots and vacated street taken for West Marginal Way under proceedings had in KCSC Cause No. 515467

situated in the county of King, state of Washington.

RECORDED AND FILED
JUN 28 1982
KING COUNTY
RECORDS & ELECTIONS
10 NORTH 4TH ST
SEASIDE WA 98138

KING COUNTY
NO EXCISE TAX
JUN 28 1982
20680377

In 1973, Manitou Investment Co. obtained equitable title to the above-described real estate by a contract of sale executed by Ruby M. Newton. A deed in fulfillment of said contract of sale was recorded July 7, 1977, under Auditor's File No. 7707070936. Title was inadvertently taken in the name of Manitou Investment Company, Inc.

Covenants arising under this deed and RCW 64.04.040 are limited by the restrictions recited in Exhibit A attached hereto, and shall not extend to any claims of right, title or interest that are based upon a bargain and sale deed dated September 1, 1978, and recorded September 12, 1978, under Auditor's File No. 7809120069, wherein Manitou Investment Co. is identified as grantor in the party clause and The Manitowoc Company, Inc., is designated as grantee.

Dated this 24th day of December, 1980.

MANITOU INVESTMENT COMPANY, INC.
(a non-existent entity)
MANITOU INVESTMENT CO.

By


Arthur T. Church, President of
Manitou Investment Co.

STATE OF OREGON)
) SS
COUNTY OF MULTNOMAH)

On this 21st day of December, 1980, before me personally appeared Arthur T. Church, to me known to be the president of the corporation that executed the within and foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of said corporation for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument on behalf of said corporation.

IN WITNESS WHEREOF I have hereunto set my hand and affixed ~~my~~ official seal the day and year first above written.



Jill Hand
Notary Public for Oregon
Place of residence:
My commission expires: 12/4/81

EXHIBIT A

Covenants arising under this deed and RCW 64.04.040, whether express or implied, are limited by:

1. Any right, title or interest in the above-described property held by:
 - a. Manitore Equipment Corp.,
 - b. Rayou Enterprises, Inc., or
 - c. Razore Enterprises, Inc.;
2. Rights arising under a deed to the state of Washington recorded September 26, 1960, and August 21, 1961, under auditor's file nos. 5205490 and 5320164;
3. An easement reserved by an instrument recorded February 15, 1973, and January 10, 1974, under auditor's file nos. 7302150008 and 7401100005;
4. The terms and provisions of ordinances numbered 101171 and 102687 of the Seattle Council which established the South Park Action Area, No. 401, Urban Renewal Plan; certified copies of the ordinances are recorded under auditor's file no. 7404020216;
5. Condemnation by the state of Washington of right of access to state highway and of light, view and air, by decree entered May 6, 1958, under case no. 515467;
6. All tax liens on the above-described property;
7. Any liens, encumbrances, defects in the grantor's title or other adverse claims created or suffered at any time by The Manitowoc Company, Inc., or created or suffered by any person, corporation or other entity after 8 a.m. on November 14, 1980.

5206290398

8206290398

FILED for Record at Request of

return to Miller, Nash & Yates
900 SW 3rd Ave
Portland, Oregon 97204



PIONEER NATIONAL
TITLE INSURANCE

A TICOR COMPANY

Filed for Record at Request of

AFTER RECORDING MAIL TO:

SEATTLE, WA 98104
304719 DC



REVENUE
NOV 17 1983
KING COUNTY
RECORDING DIVISION
11:45 AM '83

Special Warranty Deed

(CORPORATE FORM)

THE GRANTOR The Manitowoc Company, Inc.

for and in consideration of Ten Dollars (\$10.00) and other valuable consideration (XXXXXXXXXXXXX), in hand paid, grant ~~is~~, bargain~~s~~, sell~~s~~, convey~~s~~, and confirm to Manitowoc Equipment Corp.

the following described real estate, situated in the County of King State of Washington:

Real Estate described on Exhibit A attached hereto and incorporated herein by reference.

The Grantor for itself and for its successors and assigns does by these presents expressly limit the covenants of this deed to those herein expressed, and excludes all covenants arising or to arise by statutory or other implication, and does hereby covenant that against all persons whomsoever lawfully claiming or to claim by, through or under said Grantor and not otherwise, it will forever warrant and defend the said described real estate.

IN WITNESS WHEREOF, said corporation has caused this instrument to be executed by its proper officers and its corporate seal to be hereunto affixed this 7th day of October, A. D., 1983

THE MANITOWOC COMPANY, INC.

By Ralph Helm
Ralph Helm President

Attest: Charles C. West
Charles C. West Secretary

WISCONSIN
STATE OF WASHINGTON

County of MANITOWOC

On this 7th day of October 1983, before me, the undersigned, a Notary Public in and for the State of Wisconsin duly commissioned and sworn, personally appeared Ralph Helm and Charles C. West to me known to be the President and Secretary, respectively, of

The Manitowoc Company, Inc., the corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they are authorized to execute the said instrument and that the seal affixed is the corporate seal of said corporation.

Witness my hand and official seal hereto affixed the day and year in this certificate above written.

Kenneth R. Ansoerge

Notary Public in and for the State of Wisconsin
residing at Manitowoc, Wisconsin

My commission expires November 24, 1985
Kenneth R. Ansoerge

8311179571

LOTS 34 THROUGH 48, INCLUSIVE, ALL IN VACATED BLOCK 2, SOUTH PARK,
ACCORDING TO THE PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 87, IN KING
COUNTY, WASHINGTON;

TOGETHER WITH THAT PORTION OF THE NORTH HALF OF VACATED HELENA STREET
ADJOINING SAID LOTS ON THE SOUTH;

AND TOGETHER WITH THAT PORTION OF THE SOUTH HALF OF VACATED ALLEY
ADJOINING SAID LOTS ON THE NORTH;

EXCEPT THOSE PORTIONS OF SAID LOTS, VACATED ALLEY AND VACATED STREET
CONVEYED FOR STREET PURPOSES BY INSTRUMENT RECORDED UNDER AUDITOR'S
FILE NO. 3186886;

AND EXCEPT THOSE PORTIONS OF SAID LOTS, VACATED ALLEY AND VACATED
STREET TAKEN FOR WEST MARGINAL WAY UNDER PROCEEDINGS HAD IN KCSC CAUSE
NO. 515467.

ALSO

LOTS 1 THROUGH 19, INCLUSIVE, ALL IN VACATED BLOCK 3, SOUTH PARK,
ACCORDING TO THE PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 87, IN KING
COUNTY, WASHINGTON;

TOGETHER WITH THAT PORTION OF THE SOUTH HALF OF VACATED HELENA STREET
ADJOINING SAID LOTS ON THE NORTH;

EXCEPT THE SOUTH 31 FEET OF SAID LOTS 1 THROUGH 19, INCLUSIVE;

EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET CONVEYED FOR
STREET PURPOSES BY INSTRUMENT RECORDED UNDER AUDITOR'S FILE NO.
3186886;

EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET CONVEYED TO THE
STATE OF WASHINGTON BY DEEDS RECORDED UNDER AUDITOR'S FILE NOS. 5205490
AND 5320164;

AND EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET TAKEN FOR
WEST MARGINAL WAY UNDER PROCEEDINGS HAD IN KCSC CAUSE NO. 515467.

EXHIBIT A

8311170901

THIS SPACE PROVIDED FOR RECORDER'S USE:

TRANSAMERICA TITLE INSURANCE COMPANY

FILED FOR RECORD AT REQUEST OF

WHEN RECORDED RETURN TO

Name **Harold L. Ness and Alice B. Ness**

Address **1125 N.W. 53rd Street**

City, State, Zip **Seattle, Washington 98107**

662688ss

STATUTORY WARRANTY DEED

THE GRANTOR **Manitowoc Western Company, Inc.**, a Wisconsin corporation, for and in consideration of **TEN AND NO/100 DOLLARS AND OTHER VALUABLE CONSIDERATION**, in hand paid, conveys and warrants to **Harold L. Ness and Alice B. Ness, husband and wife**, the following described real estate, situated in the County of **King**, State of Washington:

See Legal Description attached hereto and marked Exhibit "A".

9511281359

SUBJECT TO: **Exceptions as shown on the attached Exhibit "B".**

Dated: **November 7, 1995**

FILED FOR RECORD AT REQUEST OF
TRANSAMERICA TITLE INSURANCE CO.

320 108TH AVE. NE
P.O. BOX 1493
BELLEVUE, WA 98009

Manitowoc Western Company, Inc

By: *[Signature]*

Its: Treasurer

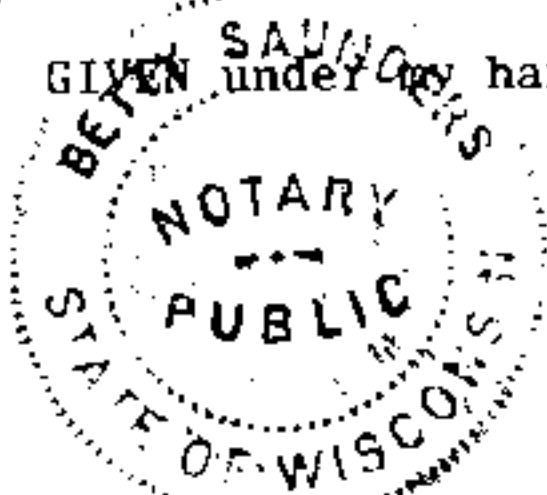
STATE OF WISCONSIN

COUNTY OF Manitowoc } ss.

On this 8th day of November, 19 95, before me, the undersigned, a Notary Public in and for the State of Wisconsin, duly commissioned and sworn, personally appeared Phil Seemer

and Treasurer of **Manitowoc Western Company, Inc.**, to me known to be the Treasurer of **Manitowoc Western Company, Inc.**, the corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that authorized to execute the said instrument and that the seal affixed (if any) is the corporate seal of said corporation.

GIVEN under my hand and official seal the day and year above written.



Betty Saunders
Notary Public in and for the State of Wisconsin,
residing at 2930 Memorial Drive, Two Rivers, WI
Printed/Typed Name: BETTY SAUNDERS
My appointment expires: 7/5/98

2239061/662688-ada

9.00

04:03:03 PM KING COUNTY RECORDS 003 PW1

951128-1359

E1458484 11/28/95 1000000.00

EXHIBIT "A"

LEGAL DESCRIPTION:

LOTS 34 THROUGH 48, ALL IN VACATED BLOCK 2 OF SOUTH PARK, AS PER PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 87, RECORDS OF KING COUNTY;

TOGETHER WITH THAT PORTION OF THE NORTH 1/2 OF VACATED HELENA STREET ADJOINING SAID LOTS ON THE SOUTH;

AND TOGETHER WITH THAT PORTION OF THE SOUTH 1/2 OF VACATED ALLEY ADJOINING SAID LOTS ON THE NORTH;

EXCEPT THOSE PORTIONS OF SAID LOTS, VACATED ALLEY, AND VACATED STREET CONVEYED TO THE CITY OF SEATTLE FOR STREET PURPOSES BY INSTRUMENT RECORDED UNDER RECORDING NO. 3186886;

AND EXCEPT THOSE PORTIONS OF SAID LOTS, VACATED ALLEY, AND VACATED STREET TAKEN FOR WEST MARGINAL WAY UNDER PROCEEDINGS IN KING COUNTY SUPERIOR COURT CAUSE NO. 515467;

ALSO

LOTS 1 THROUGH 19, ALL IN VACATED BLOCK 3 OF SOUTH PARK, AS PER PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 87, RECORDS OF KING COUNTY;

TOGETHER WITH THAT PORTION OF THE SOUTH 1/2 OF VACATED HELENA STREET ADJOINING SAID LOTS ON THE NORTH;

EXCEPT THE SOUTH 31 FEET OF SAID LOTS 1 THROUGH 19;

AND EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET CONVEYED TO THE CITY OF SEATTLE FOR STREET PURPOSES BY INSTRUMENT RECORDED UNDER RECORDING NO. 3186886;

AND EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET CONVEYED TO THE STATE OF WASHINGTON BY DEEDS RECORDED UNDER RECORDING NOS. 5205490 AND 5320164;

AND EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET TAKEN FOR WEST MARGINAL WAY UNDER PROCEEDINGS IN KING COUNTY SUPERIOR COURT CAUSE NO. 515467;

SITUATE IN THE CITY OF SEATTLE, COUNTY OF KING, STATE OF WASHINGTON.

9511281359

EXHIBIT "B"

1. AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:

RECORDED: October 3, 1949
RECORDING NO.: 3944125 and 3944136
REGARDING: Release of Damage Agreement

2. RELINQUISHMENT OF ALL EXISTING, FUTURE OR POTENTIAL EASEMENTS for access, light, view and air, and all rights of ingress, egress and regress to, from and between the land and the highway or highways constructed on lands condemned by proceedings under King County Superior Court.

By: State of Washington
Cause No.: 515467

3. RELINQUISHMENT OF ALL EASEMENTS existing, future or potential, for access, light, view and air, and all rights of ingress, egress and regress to, from and between the land and the highway or highways to be constructed on land conveyed by deed.

To: State of Washington
Dated: September 27, 1957, April 21, 1958 and June 7, 1967
Recorded: November 22, 1957, September 26, 1960 and August 21, 1961
Recording No.: 4852649, 5205490 and 5320164

4. EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

PURPOSE: Drainage
AREA AFFECTED: Over said vacated lots 33 through 38, inclusive, in vacated Block 2 of South Park and the south 1/2 of the vacated alley adjoining to connect with drain over said land by connecting with drain pipe and extending connection over the North line of said land into land adjoining on the North owned by the grantors, Clem Lavoy and Opal Lavoy, his wife, and Safe Investment Co., a corporation
RECORDING NO.: 7302150008 and 7401100005

5. EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE: Municipality of Metropolitan Seattle
PURPOSE: A sewer interceptor and a District Heating and Cooling System
AREA AFFECTED: The Easterly 25 feet more or less of said premises, together with a temporary construction easement over the Easterly 65 feet of said premises
RECORDING NO.: 8511191140

6. Urban Renewal Plan imposed by instrument recorded on April 2, 1974, under Recording No. 7404020216.

7. ALL COVENANTS, CONDITIONS OR RESTRICTIONS OR RESERVATIONS; ALL EASEMENTS OR OTHER SERVITUDES; RIGHTS OR BENEFITS WHICH MAY BE SHOWN ON THE PLAT AFFECTING LAND OUTSIDE THE BOUNDARY DESCRIBED IN SCHEDULE A, if any, disclosed by the recorded documents of Survey recorded under Recording No. 8009159001.

9511281359

After recordation return to
Joseph L. Brotherton
2410 Boyer Ave. E. Suite 1
Seattle WA 98112

STATUTORY WARRANTY DEED

788360.0350

THE GRANTOR, **Harold Ness and Alice Ness, a married couple**, for and in consideration of **TEN DOLLARS (\$10.00)**, in hand paid, conveys and warrants to **Ness Manitowoc Property, LLC, a Washington Limited Liability Company**, the following described real estate, situated in the County of King, State of Washington

See Legal Description attached hereto and marked Exhibit "A".
Lots 34 through 48 all in a vacated block 2 of south park
SUBJECT TO Exceptions of record

Dated 18th day of May 1999

GRANTOR

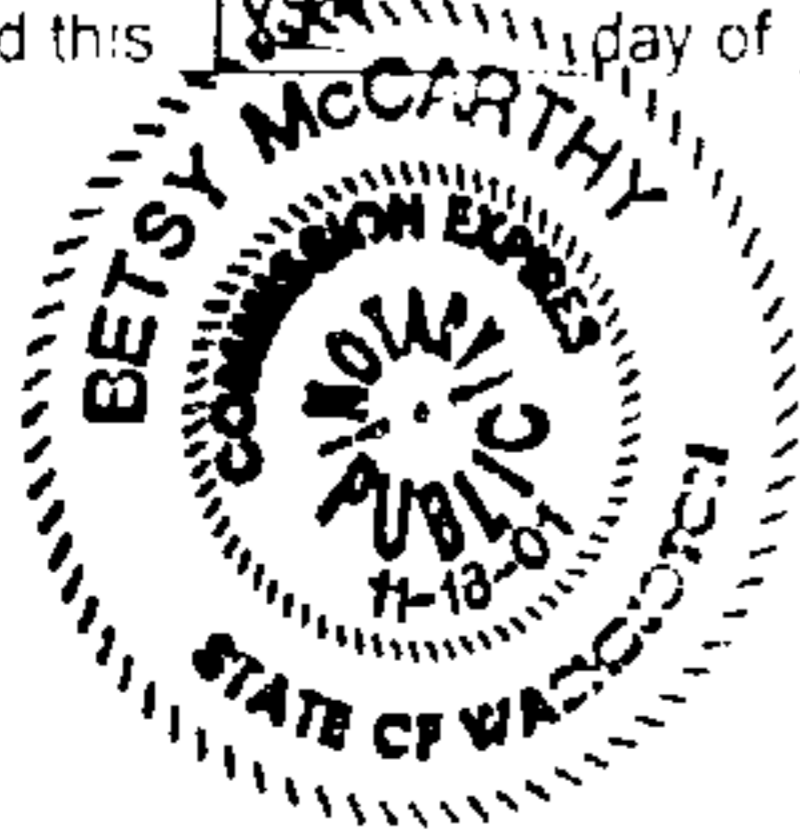
Harold Ness
HAROLD NESS

Alice Ness
ALICE NESS

STATE OF WASHINGTON)
) SS
County of King)

I certify that I know or have satisfactory evidence that **Harold Ness and Alice Ness** are the persons who appeared before me, and said persons acknowledged that they signed this instrument and acknowledged it to be their free and voluntary act for the uses and purposes mentioned in the instrument

Dated this 18th day of May 1999



Betsy McCarthy
Notary Public in and for the State of Washington
Residing in Edenwa, WA
My commission expires 11-18-01

9905182491

990518-24 : 02:43:00 PM KING COUNTY RECORDS -002 THS 9.00

X

LEGAL DESCRIPTION:

LOTS 34 THROUGH 48, ALL IN VACATED BLOCK 2 OF SOUTH PARK, AS PER PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 87, RECORDS OF KING COUNTY;

TOGETHER WITH THAT PORTION OF THE NORTH 1/2 OF VACATED HELENA STREET ADJOINING SAID LOTS ON THE SOUTH;

AND TOGETHER WITH THAT PORTION OF THE SOUTH 1/2 OF VACATED ALLEY ADJOINING SAID LOTS ON THE NORTH;

EXCEPT THOSE PORTIONS OF SAID LOTS, VACATED ALLEY, AND VACATED STREET CONVEYED TO THE CITY OF SEATTLE FOR STREET PURPOSES BY INSTRUMENT RECORDED UNDER RECORDING NO. 3186886;

AND EXCEPT THOSE PORTIONS OF SAID LOTS, VACATED ALLEY, AND VACATED STREET TAKEN FOR WEST MARGINAL WAY UNDER PROCEEDINGS IN KING COUNTY SUPERIOR COURT CAUSE NO. 515467;

ALSO

LOTS 1 THROUGH 19, ALL IN VACATED BLOCK 3 OF SOUTH PARK, AS PER PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 87, RECORDS OF KING COUNTY;

TOGETHER WITH THAT PORTION OF THE SOUTH 1/2 OF VACATED HELENA STREET ADJOINING SAID LOTS ON THE NORTH;

EXCEPT THE SOUTH 31 FEET OF SAID LOTS 1 THROUGH 19;

AND EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET CONVEYED TO THE CITY OF SEATTLE FOR STREET PURPOSES BY INSTRUMENT RECORDED UNDER RECORDING NO. 3186886.

AND EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET CONVEYED TO THE STATE OF WASHINGTON BY DEEDS RECORDED UNDER RECORDING NOS. 5205490 AND 5320164;

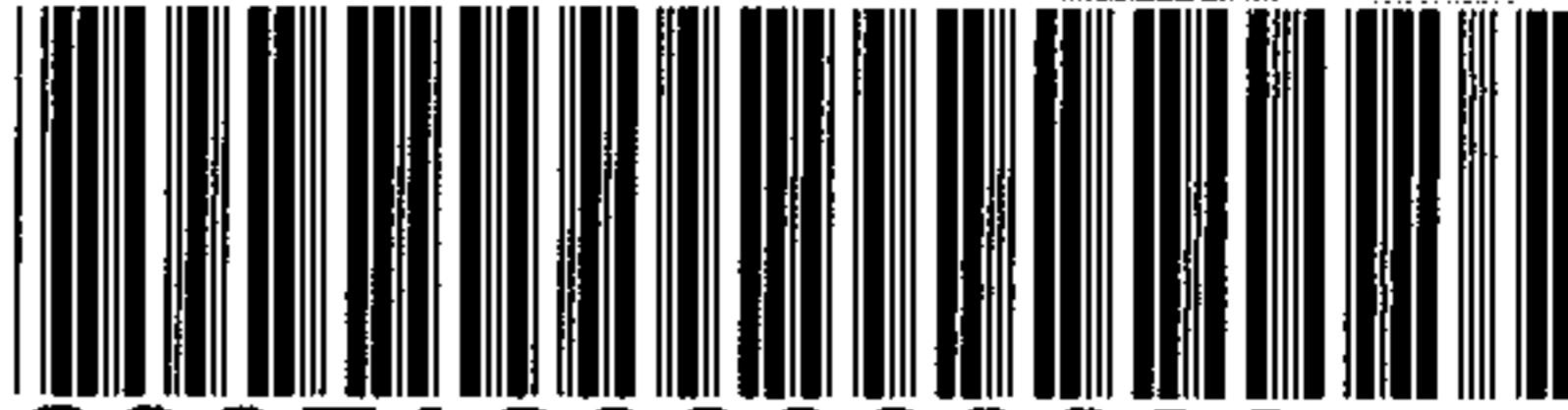
AND EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET TAKEN FOR WEST MARGINAL WAY UNDER PROCEEDINGS IN KING COUNTY SUPERIOR COURT CAUSE NO. 515467;

SITUATE IN THE CITY OF SEATTLE, COUNTY OF KING, STATE OF WASHINGTON.

9905182491

When Recorded, Return to:

Department of Planning and Development
700 5th Avenue, Suite 2000
P. O. Box 34019
Seattle, WA 98124-4019



20051208000693

DEPT OF CONSTR COV 35.00
PAGE 001 OF 004
12/08/2005 10:37
KING COUNTY, WA

COVENANT GEOLOGIC HAZARD AREA

Grantor: 1) Coast Crane Company 2) _____
Additional on page _____

Grantee: 1) CITY OF SEATTLE 2) _____
Additional on page _____

Legal Description
(abbreviated): Lots 31-48, Block 2 & lots 1-21, Block 3
South park addition

Additional on: _____

Assessor's Tax Parcel ID#: 7883600350

Reference Nos. of Documents Released or Assigned: _____

8250 5th Avenue South

DPD # 2409187

This covenant executed this date in favor of the City of Seattle/Grantee (herein "City") by the undersigned Owner(s)/Grantor of the within/described real property (owner(s)):

WITNESSETH

WHEREAS, undersigned is (are) the owner(s) of the real property addressed in the records of the Seattle Department of Planning and Development

as 8250 5th Avenue South
described in exhibit "A" (legal description) attached;

and

WHEREAS, owner(s) has (have) obtained approval of land use and construction permits for the property from the City (# Application # 2409187);

WHEREAS, the property is located in a "geologic hazard area" as defined in SMC Chapter 25.09, Regulations for Environmentally Critical Areas;

and

WHEREAS, SMC Chapter 22.800, the Stormwater, Grading and Drainage Control Code requires as a condition of the issuance of land use and construction permits that this covenant be signed, acknowledged, and recorded in the records of King county;

NOW, THEREFORE, Owner(s) agree(s) as follows:

1. Owner(s) will inform his/her successors and assigns of the property described in Exhibit "A" that the property is in a geologic hazard area, that there may be risks associated with development thereon, of any conditions or prohibitions on development imposed by the City, and of any features in this design which will require maintenance or modification to address anticipated soils changes.
2. Owner(s) on his/her own behalf and on behalf of his/her heirs, successors and assigns hereby waives any right to assert any claim against the City for any loss, or damage to people or property either on or off the site resulting from soil movement by reason of or arising out of issuance of the permit(s) by the City for development on the property except only for such losses that may directly result from the sole negligence of the City.

Related to construction permits (# _____);

(CORPORATE OWNER, PARTNERSHIP OWNER, LIMITED LIABILITY COMPANY OWNER/OTHER
LEGAL ENTITY OWNER—attach more pages if needed)

Date: 11/18/2005

Coast Crane Company

Owner/Grantor

Coast Crane Company

Printed Name

By [Signature]

Brad McKeown

Printed Name

Its Vice President & C.F.O.

State of Washington)
)ss
County of King)

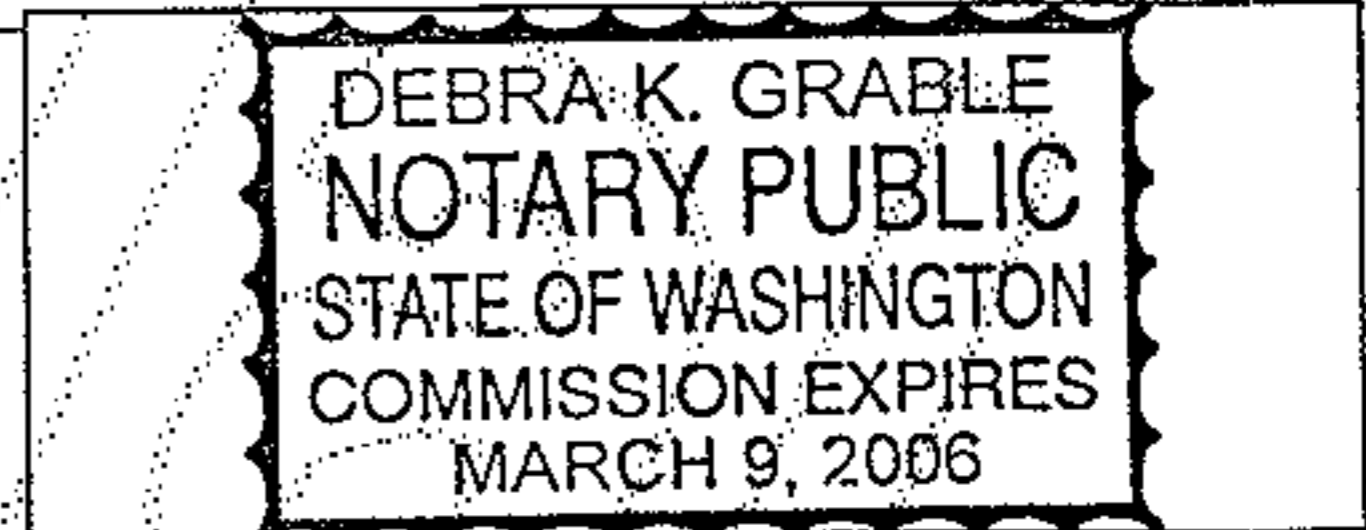
I certify that I know or have satisfactory evidence that Brad McKeown is the person who appeared before me, and said person acknowledged that he/she signed this instrument, on oath stated that he/she was authorized to execute the instrument and acknowledged it as the Vice President & C.F.O. (type of authority, e.g., partner, trustee, title of officer, personal representative, guardian, attorney in fact for a principal, etc.) of Coast Crane Company (name of owner/entity on behalf of whom instrument was executed), to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

Date: 11-18-05

Debra K. Grable

NOTARY PUBLIC in and for the State of Washington
Residing at Seattle
My commission expires: 3-9-06

PRINT NAME: Debra K. Grable



Use this space for Notary Seal

Document

EXHIBIT A TO GEOLOGIC HAZARD COVENANT

COMPLETE LEGAL DESCRIPTION OF PROPERTY SUBJECT TO COVENANT:

LEGAL DESCRIPTION:
VACATED LOTS 34 THRU 48 INCLUSIVE
AND PORTION OF VACATED STREET AND ALLEY
ADJOINING, BLOCK 2: ALSO VACATED LOTS 1 THRU 21
INCLUSIVE AND PORTION OF VACATED STREET AND
ALLEY ADJOINING, LESS THE SOUTH 36' THENCE OF,
LESS PORTION TO STATE OF WASHINGTON, BLOCK 3
SOUTH PARK ADDITION BEING AN UNIMPROVED TRACT
COVERING A TOTAL OF 97,500 SQUARE FEET IN KING
COUNTY, WASHINGTON AS RECORDED IN VOLUME 4 OF
PLATS PAGE 87, RECORDS OF KING COUNTY (LEGAL
DESCRIPTION DATED AUGUST 1971 AS REVISED OCTOBER
10, 1972).

ASSESSOR PARCEL NO: 7883600350.



REAL ESTATE CONTRACT

(FORM 15474)

1202/22

THIS CONTRACT, made and entered into this 17th day of January, 1973

Between RUBY H. NEWTON, a single woman on dates of acquiring title and at all times since heretofore called the "seller," and HANITOU INVESTMENT COMPANY, INC., hereinafter called the "purchaser."

WITNESSETH that the seller agrees to sell to the purchaser and the purchaser agrees to purchase from the seller the

following described real estate, with the appurtenances, in King County, State of Washington: Legal description attached hereto as Exhibit "A" and by this reference made a part hereof.

SUBJECT TO: Lenses recorded under Recording No. 6336584; Relinquishment of all existing, future or potential easements for access, light, view and air, and all rights of ingress, egress and regress to, from and between said premises and the highway or highways to be constructed on lands condemned by proceeding under King County Superior Court Cause No. 535467 to State of Washington; Relinquishment of all existing, future or potential easements for access, light, view and air, and all rights of ingress, egress and regress to, from and between said premises and the highway or highways to be constructed on lands conveyed by deed recorded under Recording No. 5205490 to The State of Washington; and, Relinquishment of all existing, future or potential easements for access, light, view and air, and all rights of ingress, egress and regress to, from and between said premises and the highway or highways to be constructed on lands conveyed by Deed recorded under Recording No. 5320164 to The State of Washington.

The terms and conditions of this contract are as follows: The purchase price is NINETY SEVEN THOUSAND FIVE HUNDRED

AND NO/100-----(\$ 97,500.00) Dollars, of which

TWENTY-NINE THOUSAND AND NO/100-----(\$ 29,000.00) Dollars have been paid; the receipt whereof is hereby acknowledged, and the balance of said purchase price shall be paid as follows:

SEVEN HUNDRED FIFTY AND NO/100-----\$ 750.00 Dollars,

on or before the 25th day of January 1974

and SEVEN HUNDRED FIFTY AND NO/100-----(\$ 750.00) Dollars,

on or before the 25th day of each succeeding calendar month until the balance of said purchase price shall have been fully paid. The purchaser further agrees to pay interest on the diminishing balance of said

purchase price at the rate of seven (7%) per annum from the 5th day of February 1973

which interest shall be deducted from each installment payment and the balance of each payment applied to reduction of principal. Purchaser agrees to pay interest only on a monthly basis during the calendar year 1973 payable on the 25th day of each month commencing with February, 1973.

All payments made hereunder shall be made at or in such office as the seller may direct in writing.

NOTWITHSTANDING the preceding terms, purchaser agrees to pay this contract in full, together with any accrued interest, within five (5) years from closing.

The removal of soil or other fill material from property adjoining on the south (not property covered in this contract) shall not be deemed by the purchaser herein to be encroachment, trespass or nuisance in relation to lateral support, and this term shall be binding on purchaser.

Seller agrees to furnish purchaser, upon closing, with a Statutory Warranty Deed for the following legally described portion of the above property being purchased:

The north 89 feet of Lots 1 thru 12, Block 3, South Park Addition together with the south eleven (11) feet of the vacated street adjoining on the north, being an unimproved tract in King County, Washington as recorded in Volume 4 of platpage 87, records of King County. (Having an area of twenty-six thousand, seven hundred (26,700) square feet)

is referred to in this contract, "date of closing" shall be February 5, 1973.

11. The purchaser accepts and agrees to pay before delivery all taxes and assessments that may be levied against and against the premises before or after said date of closing, and by the terms of this contract the purchaser has assumed payment of all such taxes, levies or other assessments, as they are levied against or assessed to purchase subject to, any taxes or assessments now in force and effect at the time of closing.

12. The purchaser agrees, and the purchase price is fully paid, in favor of buildings now and hereafter placed on said real estate retained in the name of the seller, against claims for damage by both fire and independent company insurable by the seller and the seller's benefit, as his interest may appear, and to pay all premiums therefor and to deliver all policies and proceeds thereof to the seller.

13. The purchaser agrees that full inspection of said real estate has been made and that neither the seller nor his agent shall be held to any obligation regarding the condition of any improvements thereon, nor shall the purchaser or seller or the manager of either be held to any obligation or agreement for alterations, improvements or repairs unless the agreement or agreement referred to hereunder specifically so provides and attached to and made a part of this contract.

14. The purchaser accepts all hazards of demolition or destruction of any improvements now on said real estate or hereafter erected thereon, and of the taking of said real estate as may and thereof for public use; and agrees that in such damage, destruction or taking, shall constitute a taking of such improvements, by force of law, and shall be subject to public use, the proceeds of the condemnation or eminent domain proceedings shall be paid to the purchaser in full and shall be paid to the seller and applied in payment of the purchase price less any reasonable expenses of procuring the same, and shall be paid to the seller or his agent in payment of the purchase price less any reasonable expenses of procuring the same, and shall be paid to the seller or his agent in payment of the purchase price less any reasonable expenses of procuring the same, and shall be paid to the seller or his agent in payment of the purchase price less any reasonable expenses of procuring the same.

15. The seller warrants to deliver within 15 days of the date of closing, a purchaser's copy of the contract in printed form, as a condition precedent, to the Statutory Title Insurance Company of Washington, and the agreement by the seller to pay the full purchase price, against loss of damage by reason of defect in title, and shall be a part of the title of closing and to be made an integral part of the title.

16. The seller warrants to deliver to the purchaser, at the time of closing, a copy of the contract in printed form, as a condition precedent, to the Statutory Title Insurance Company of Washington, and the agreement by the seller to pay the full purchase price, against loss of damage by reason of defect in title, and shall be a part of the title of closing and to be made an integral part of the title.

17. The seller warrants to deliver to the purchaser, at the time of closing, a copy of the contract in printed form, as a condition precedent, to the Statutory Title Insurance Company of Washington, and the agreement by the seller to pay the full purchase price, against loss of damage by reason of defect in title, and shall be a part of the title of closing and to be made an integral part of the title.

18. The seller warrants to deliver to the purchaser, at the time of closing, a copy of the contract in printed form, as a condition precedent, to the Statutory Title Insurance Company of Washington, and the agreement by the seller to pay the full purchase price, against loss of damage by reason of defect in title, and shall be a part of the title of closing and to be made an integral part of the title.

19. The seller warrants to deliver to the purchaser, at the time of closing, a copy of the contract in printed form, as a condition precedent, to the Statutory Title Insurance Company of Washington, and the agreement by the seller to pay the full purchase price, against loss of damage by reason of defect in title, and shall be a part of the title of closing and to be made an integral part of the title.

20. The seller warrants to deliver to the purchaser, at the time of closing, a copy of the contract in printed form, as a condition precedent, to the Statutory Title Insurance Company of Washington, and the agreement by the seller to pay the full purchase price, against loss of damage by reason of defect in title, and shall be a part of the title of closing and to be made an integral part of the title.

21. The seller warrants to deliver to the purchaser, at the time of closing, a copy of the contract in printed form, as a condition precedent, to the Statutory Title Insurance Company of Washington, and the agreement by the seller to pay the full purchase price, against loss of damage by reason of defect in title, and shall be a part of the title of closing and to be made an integral part of the title.

22. The seller warrants to deliver to the purchaser, at the time of closing, a copy of the contract in printed form, as a condition precedent, to the Statutory Title Insurance Company of Washington, and the agreement by the seller to pay the full purchase price, against loss of damage by reason of defect in title, and shall be a part of the title of closing and to be made an integral part of the title.



FORM 15474

If the seller agrees, upon receiving full payment of the purchase price and interest in the manner herein specified, to release the obligation to purchase a warranty of fulfillment, the seller shall execute and deliver to the purchaser, together with any and all real estate, excepting any and all mineral, hydraulic, oil, gas, or other rights, a deed of conveyance which shall be subject to the following:

Relinquishment under Recording No. 5205490; Relinquishment under King County Superior Court Cause No. 515467; and, Relinquishment under Recording No. 5320154.

18. Unless a different date is provided for herein, the purchaser shall be entitled to possession of said real estate on date of closing and to remain in possession so long as purchaser is not in default hereunder. The purchaser covenants to keep the buildings and other improvements on said real estate in good repair and not to permit waste and not to use, or permit the use of, the real estate for any illegal purpose. The purchaser covenants to pay all service, installation or construction charges for water, sewer, electricity, garbage or other utility services furnished to said real estate after the date purchaser is entitled to possession.

19. In case the purchaser fails to make any payment herein provided as to maintain insurance, as herein required, the seller may make such payment or effect such insurance, and any amount so paid by the seller, together with interest at the rate of 10% per annum from date of payment until repaid, shall be recoverable by purchaser on seller's demand, without prejudice to any other rights the seller might have by reason of such default.

20. Time is of the essence of this contract, and it is agreed that in case the purchaser shall fail to comply with or perform the covenants or agreements herein or to make any payment required hereunder promptly, at the time and in the manner herein provided, the seller may elect to declare all the purchaser's rights hereunder terminated, and upon his doing so, all payments made by the purchaser hereunder and all improvements placed upon the real estate shall be forfeited to the seller as liquidated damages, and the seller shall have right to evict and take possession of the real estate, and no action by the seller or any default on the part of the purchaser shall be construed as a waiver of any subsequent default.

21. The purchaser agrees to pay all demands, notices or other papers with respect to foreclosure and termination of purchaser's right may be made by United States Bank, postage pre-paid, return receipt requested, directed to the purchaser at his address as shown to the seller.

22. It is the seller's intention to bring suit to enforce any covenant of this contract, including suit to collect any payment hereunder; the purchaser agrees to pay a reasonable sum of attorney's fees and all costs and expenses in connection with such suit, which sum shall be included in any judgment or decree entered in such suit.

23. The seller shall bring suit to procure an adjudication of the termination of the purchaser's rights hereunder, and judgment to be entered, the purchaser agrees to pay a reasonable sum of attorney's fees and all costs and expenses in connection with such suit, and also the reasonable cost of searching records to determine the condition of title at the date such suit is entered, which sums shall be included in any judgment or decree entered in such suit.

24. WE HEREBY CERTIFY, the parties hereto have executed this instrument as of the date first written above.

Ruby M. Newton (SEAL)
 Ruby M. Newton

MANITOU INVESTMENT COMPANY, INC.

By: *Arthur T. Clark*

By: *Jack J. Helwick*

Ruby M. Newton



I, the undersigned, do hereby certify that the above and foregoing instrument, and acknowledgment thereon, were executed by the parties hereto in accordance with the provisions hereof, and that the same is true and voluntary act and deed.

for the uses and purposes therein contained.

GIVEN under my hand and official seal this 13th day of February 1973.

John S. Johnson
 Notary Public in and for the State of Washington
 residing at *Seattle*

FILED for the
 SECURITY TITLE AND DEED
 SEATTLE, WASH.

THIS SPACE RESERVED FOR RECORDER'S USE

RECORDED
 REQUEST OF
 1973 FEB 15 AM 8 00
 SECTION, KING CO., WA
 CLERK

Filed for Record at Request of

NAME: MISS FOS
 ADDRESS: 1011 1st Ave
 CITY: Seattle

EXHIBIT 'A'

30215004

Vacated lots 34 through 46, inclusive, and portion of vacated street and Alley adjoining, vacated Block 2 and vacated lots 1 through 21, inclusive, and portion of vacated street adjoining vacated Block 3,

EXCEPT the south 21 feet thereof all in South Park, according to plat recorded in Volume 4 of Plate, page 47, in King County, Washington.

EXCEPT that portion conveyed for street purposes by instrument recorded under Auditor's File No. 3106826 and

EXCEPT portion taken for West Hospital Way under King County Superior Court Cause No. 515467 and

EXCEPT all that portion of the following described Parcel 'A' lying northeasterly and 1200 feet parallel with and 50 feet southwesterly, then measured at right angles from the centerline of Primary State Highway No. 1, South 116th Street to J.L. SSM 1-2.

EXCEPT Lots 17 to 21, inclusive, all in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plate, page 47, in King County, Washington.

EXCEPT those portions thereof lying within West Marginal H.W. and

EXCEPT that portion thereof condemned by the State of Washington for Highway purposes, in King County Superior Court Cause No. 515467 conveyed by Deed recorded under Auditor's File No. 5320164, and any portion conveyed by Auditor's File No. 5205490.

Recorders Note: Parts of instrument not dark enough for microfilm.



SECURITY TITLE INSURANCE COMPANY

FILED for Record at Request of
SECURITY TITLE INS. CO.
SEATTLE, WASH.

THIS SPACE RESERVED FOR RECORDER'S USE

REQUEST OF

1973 FEB 15 AM 8 00

ELECTRONIC RECORDING CO. INC.
SEATTLE, WASH.

RECEIVED OF THE CLERK OF THE COUNTY OF KING WASH 9820

Filed for Record at Request of

NAME SAFE 101

ADDRESS SECURITY TITLE

CITY AND STATE SEATTLE WASH.

SECURITY TITLE INSURANCE COMPANY

STATUTORY WARRANTY DEED

THE GRANTOR **RUBY N. NEWTON**, a single woman on date of acquiring title and at all times since

for and in consideration of **Ten Dollars and other good and valuable consideration**

in hand paid, transfers and warrants to **CLARA LAVOY and OPAL LAVOY, his wife, as to an undivided one-half interest, and SAFE INVESTMENT CO., a corporation, as to an undivided one-half interest** in certain, the following described real estate, situated in the County of **King** State of Washington:

The south 31 feet of vacated Lots 1 to 16 inclusive, vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington;
TOGETHER WITH the north half of vacated alley adjoining;
EXCEPT portion deeded to State of Washington by deed recorded under Auditor's File No. 5205490, if any.

SUBJECT TO: Relinquishment of all existing, future or potential easements for access, light, view and air, and all rights of ingress, egress and regress to, from and between said premises and the highway or highways to be constructed on lands conveyed by Deed recorded under Recording No. 5205490 to The State of Washington.



SECURITY TITLE INSURANCE COMPANY

14.50

25th day of January, 1973

Ruby N. Newton (SEAL)
Ruby N. Newton (SEAL)

STATE OF WASHINGTON

County of King

On this 26th day of January, 1973

before me, the

undersigned, Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared **Ruby N. Newton**

the individual described in and who executed the foregoing instrument, and I know/edged to me and sealed the said instrument as her free and voluntary act and deed for the purposes aforesaid.

Notary Public in and for the State of Washington, residing at Seattle

26th day of January, 1973

Edythe M. Shelton
Notary Public in and for the State of Washington,
residing at Seattle



SECURITY TITLE INSURANCE COMPANY
OF WASHINGTON
1000 SECOND AVENUE (EAST) SEATTLE, WASHINGTON 98101

Filed for Record at Request of

7303300203

MAIL TO
NAME SECURITY-TITLE
ADDRESS ESCROW DEPT.
CITY AND STATE ESCROW

THIS SPACE RESERVED FOR RECORDER'S USE
REQUEST OF
1973 MAR 30 AM 8 00
RECORDS & ELECTIONS - KING CO. WA.
DEPUTY

24670 RS

FILED for Record at Request of
SECURITY TITLE INS. CO.
SEATTLE, WASH.

Warranty Fulfillment L^{ed}

THE GRANTOR **RUBY M. NEWTON**, a single woman on dates of acquiring title and at all times since

for and in consideration of **Ten Dollars and other good and valuable consideration** in hand paid, conveys and warrants to **MANITOU INVESTMENT COMPANY, INC.**

the following described real estate, situated in the county of **King**, State of Washington:

The north 89 feet of Lots 1 thru 12, Block 3, South Park Addition, together with the south 11 feet of the vacated street adjoining on the north, being an unimproved tract in King County, Washington, as recod in Volume 4 of Plate, page 87, records of King County, Washington.

SALES TAX PAID ON CONVEYANCE AFF. No. 208089
BY M. Newman T. COUNTY TREASURER

This deed is given in fulfillment of that certain real estate contract between the parties hereto, dated **January 17, 1973**, and conditioned for the conveyance of the above described property, and the covenants of warranty herein contained shall not apply to any title, interest or encumbrance arising by, through or under the purchaser in said contract, and shall not apply to any taxes, assessments or other charges levied, assessed or becoming due subsequent to the date of said contract.

Sales Tax Paid under E-208089 2/14/73

13th day of February, 1973



Ruby M. Newton
Ruby M. Newton (SEAL)

STATE OF WASHINGTON,
County of **King**

On this day personally appeared before me **Ruby M. Newton** to my known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that she signed the same as her free and voluntary act and deed for the uses and purposes therein contained.

GIVEN under my hand and official seal this 13th day of February 1973
John S. Robinson
Notary Public in and for the State of Washington



SECURITY TITLE INSURANCE COMPANY

THIS SPACE RESERVED FOR RECORDER'S USE

RECORDED

1974 JAN 3 AM 11 42

DIRECTOR
RECORDS & ELECTIONS
KING COUNTY, WASH.

00100 7401030511 4 88

Filed for Record at Request of

NAME Phill H Johnson
ADDRESS 2900 Seattle 1st Nat Bldg
CITY AND STATE Seattle Wash, 98124

Quit Claim Deed

OHJ:brm

THE GRANTOR, **MARCIA N. CAGLE**, as her sole and separate estate,

for and in consideration of **TEN DOLLARS (\$10.00)**

conveys and quit claim to **CLEM LAVOY and SAFE INVESTMENT CO., a Washington corporation,** the following described real estate, situated in the County of **King,** State of Washington, including any after acquired title:

The south 31 feet of Lots 17 to 21 inclusive, all in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington; EXCEPT those portions thereof lying within West Marginal Way; and EXCEPT that portion thereof condemned by the State of Washington for highway purposes, in King County Superior Court Cause No. 513467 conveyed by deed recorded under King County Recording No. 5320164.



Dated this 26th day of **December** 1973.

MARCIA N. CAGLE (SEAL)

By [Signature] (SEAL)
Her Attorney-in-Fact

STATE OF WASHINGTON.

STATE OF WASHINGTON.

County of KING



On this 26th day of December 1973, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared JON W. SATHER to me known to be the individual described in, and who executed the within instrument for him self and also as the Attorney in Fact for **MARCIA N. CAGLE** and acknowledged to me that he signed and sealed the same as his own free and voluntary act and deed for him self, and also as the Attorney in Fact for said **MARCIA N. CAGLE** in the capacity and for the uses and purposes therein expressed, and that said principal is not deceased nor insane.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on this 26th day of December 1973.

[Signature]

Notary Public in and for the State of Washington, is situated at Seattle

DISCLOSURE FORM

King County Ordinance No. 1490 requires the following disclosure or alternative waiver form to be completed prior to entry into a binding agreement to purchase. Three copies of each disclosure or alternative waiver must be prepared. One copy shall be retained by the prospective vendor; one copy shall be retained by the prospective purchaser. If the prospective purchaser enters into a binding agreement to purchase, the vendor shall file the third copy with the King County Department of Records and Elections when other documents are recorded.

A violation by any vendor or vendor's agent of any provision of Ordinance No. 1490 may result in imposition of a civil penalty in an amount not to exceed \$250.00 for each violation.

NOTICE TO PURCHASER

If there is no reasonable access to a public sanitary sewer system from the parcel you are thinking of buying, you must install a private sewer system approved by the King County Department of Health in order to build a house or any structure which will be used for human habitation. No building permits are issued for parcels which cannot have access to approved public or approved private sewer systems. No permit will be issued for and no septic tank systems may be located on this parcel unless it has been subjected to a percolation test within one year prior to application for a building permit. Even if a timely percolation test has been made, no permit will be issued and no septic tank system may be located on this parcel if the Department of Health has not approved the plan for and approved the installation of the private sewer system. Before you enter into an agreement to purchase this parcel, you should contact the King County Department of Health to determine the procedures for installing a private sewer system.

Your seller may have had a percolation test made on the parcel by a registered civil or sanitary engineer or certificated sewage disposal system designer. If so, that fact and the conclusions of the test appear below.

SELLER'S REPRESENTATIONS

PERCOLATION TEST. Seller must complete either Statement A or Statement B as appropriate.

A. My agent (Name of Agent) _____, a registered civil or sanitary engineer or certificated sewage disposal system designer, has conducted percolation tests on this parcel: (Legal Description)

The percolation test was conducted on (Date) _____. From the tests, my agent concluded that a septic tank system could _____ could not _____ be installed on this parcel in conformance with standards set by King County and in effect at the date of the test.

I represent that the statements above are true.

Seller's Signature _____ Date _____

B. No percolation tests have been conducted on this parcel: (Legal Description)

I have no knowledge or information from which a determination can be made as to whether a septic tank system may be installed on this parcel, except as follows: (To be completed by seller.)

I represent that the statements above are true.

Seller's Signature _____ Date _____

BUYER'S SIGNATURE

I have read this statement and understand its contents.

Prospective Purchaser's Signature _____ Date Jan 3 1974

WAIVER (IN THE ALTERNATIVE)

I have read this disclosure form and understand its contents. I waive Vendor's disclosure:

Unconditionally
or Upon the condition this sale will not be closed unless this parcel is subjected to a percolation test which meets the requirements of the King County Department of Health.

Prospective Purchaser's Signature _____ Date Jan 3 1974

74U1030511



SECURITY TITLE INSURANCE COMPANY

THIS SPACE RESERVED FOR RECORDER'S USE

7401170254

Filed for Record at Request of

NAME Phill H. Johnson
ADDRESS 3726 Seattle 1st Nat Bk Bldg
CITY AND STATE Seattle Wash 98129

RECORDED
BY 01 MY 21 AM '73

RECORDED

874 JAN 3 AM 11 42

RECORDED

DIRECTOR
RECORDS & ELECTRICS
KING COUNTY, WASH.

7401170254

OHJ:brm

Quit Claim Deed

THE GRANTOR, MARCIA N. CAGLE, as her sole and separate estate,

for and in consideration of **TEN DOLLARS (\$10.00)**

conveys and quit claim to **CLEN LAVOY and SAFE INVESTMENT CO., a Washington corporation,** the following described real estate, situated in the County of **King,** State of Washington, including any after acquired title:

The south 31 feet of Lots 17 to 21 inclusive, all in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington; EXCEPT those portions thereof lying within West Marginal Way; and EXCEPT that portion thereof condemned by the State of Washington for highway purposes, in King County Superior Court Cause No. 515467 conveyed by deed recorded under King County Recording No. 5320164; TOGETHER WITH the north half of the vacated alley adjoining.

TAX
6247720
JAN 17 1974
JANA E. MCKENZIE
RECORDS & ELECTRICS
KING COUNTY, WASH.

6246467
JAN - 3 1974

Dated this 26 day of December 1973.

MARCIA N. CAGLE (SEAL)

By [Signature] (SEAL)
Her Attorney-in-Fact

STATE OF WASHINGTON,

STATE OF WASHINGTON,

County of KING



On this 26 day of December, 1973, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared JON W. SATHER to me known to be the individual described in, and who executed the within instrument to him self and also as the Attorney in Fact for MARCIA N. CAGLE and acknowledged to me that he signed and sealed the same as his own free and voluntary act and deed for him self, and also as the free and voluntary act and deed as Attorney in Fact for said, MARCIA N. CAGLE in the capacity and for the uses and purposes therein expressed, and that said principal is not deceased nor insane.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and date first above written.

[Signature]
Notary Public in and for the State of Washington, residing at Seattle, Wash.

7401170254

DISCLOSURE FORM

King County Ordinance No. 1490 requires the following disclosure or alternative waiver form to be completed prior to entry into a binding agreement to purchase. Three copies of each disclosure or alternative waiver must be prepared. One copy shall be retained by the prospective vendor; one copy shall be retained by the prospective purchaser. If the prospective purchaser enters into a binding agreement to purchase, the vendor shall file the third copy with the King County Department of Records and Elections when other documents are recorded.

A violation by any vendor or vendor's agent of any provision of Ordinance No. 1490 may result in assessment of a civil penalty in an amount not to exceed \$250.00 for each violation.

NOTICE TO PURCHASER

If there is no reasonable access to a public sanitary sewer system from the parcel you are thinking of buying, you must install a private sewer system approved by the King County Department of Health in order to build a house or any structure which will be used for human habitation. No building permits are issued for parcels which cannot have access to approved public or approved private sewer systems. No permit will be issued for and no septic tank systems may be located on this parcel unless it has been subjected to a percolation test within one year prior to application for a building permit. Even if a timely percolation test has been made, no permit will be issued and no septic tank system may be located on this parcel if the Department of Health has not approved the plan for and approved the installation of the private sewer system. Before you enter into an agreement to purchase this parcel, you should contact the King County Department of Health to determine the procedures for installing a private sewer system.

Your seller may have had a percolation test made on the parcel by a registered civil or sanitary engineer or certificated sewage disposal system designer. If so, that fact and the conclusions of the test appear below.

SELLER'S REPRESENTATIONS

PERCOLATION TEST. Seller must complete either Statement A or Statement B as appropriate.

A. My agent (Name of Agent) _____, a registered civil or sanitary engineer or certificated sewage disposal system designer, has conducted percolation tests on this parcel. (Legal Description)

The percolation test was conducted on (Date) _____ from the tests, my agent concluded that a septic tank system could _____ could not _____ be installed on this parcel in conformance with standards set by King County and in effect at the date of the test.

I represent that the statements above are true.

Seller's Signature _____ Date _____

B. No percolation tests have been conducted on this parcel. (Legal Description)

I have no knowledge or information from which a determination can be made as to whether a septic tank system may be installed on this parcel, except as follows: (To be completed by seller.)

I represent that the statements above are true.

Seller's Signature _____ Date _____

BUYER'S SIGNATURE

I have read this statement and understand its contents.

Prospective Purchaser's Signature Jeff Investment Co. Date Jan 3 1974

WAIVER (IN THE ALTERNATIVE)

I have read this disclosure form and understand its contents. I waive vendor's disclosure:

OR Unconditionally
 Upon the condition this sale will not be closed unless this parcel is subjected to a percolation test which meets the requirements of the King County Department of Health.

Prospective Purchaser's Signature _____ Date Jan 3 1974

1150030511

7401170294

File 7493



OHJ:brm

REAL ESTATE CONTRACT

(CORPORATE FORM A-1968)

7402040025

THIS CONTRACT, made and entered into this 27th day of January 1974,

between SAFE INVESTMENT CO., a Washington corporation, and CLEM LaVOY and OPAL LaVOY, his wife, hereinafter called the "seller," and ~~SAFETY INVESTMENT CO., a Washington corporation,~~ RAZOR ENTERPRISES, INC., a Washington corporation, hereinafter called the "purchaser."

WITNESSETH: That the seller agrees to sell to the purchaser and the purchaser agrees to purchase from the seller the following described real estate, with the appurtenances, in King County, State of Washington:

Parcel A
Parcel B
Parcel C

PARCEL A: That portion of the south half of vacated Block 3, South Park platted as Lots 25 to 48 inclusive, according to plat recorded in Volume 4 of Plats, page 87, King County, Washington, lying southwesterly of SR 99; TOGETHER WITH south half of the vacated alley adjoining; EXCEPT that portion thereof conveyed to the State of Washington for highway purposes, by deed recorded under King County Recording No. 5320163.

PARCEL B: The south 31 feet of vacated Lots 1 to 16 inclusive, vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington; TOGETHER WITH the north half of vacated alley adjoining; EXCEPT portion deeded to State of Washington by deed recorded under King County Recording No. 5205490.

PARCEL C: The south 31 feet of Lots 17 to 21, inclusive, ALL in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington, EXCEPT those portions thereof lying within West Marginal Way; and EXCEPT that portion thereof condemned by the State of Washington for highway purposes, in King County Superior Court Cause No. 515467, conveyed by deed recorded under King County Recording No. 5320164, TOGETHER WITH the north half of the vacated alley adjoining.

740208025

The terms and conditions of this contract are as follows: The purchase price is eighty-two thousand nine hundred (\$82,900.00) Dollars, of which twenty-two thousand nine hundred (\$22,900.00) Dollars have been paid, the receipt whereof is hereby acknowledged, and the balance of said purchase price shall be paid as follows:

or here or purchaser's option, on or before the 15 day of February, 1975 Dollars,

and

or here or purchaser's option, on or before the 15 day of each succeeding calendar month until the balance of said purchase price shall have been fully paid. The purchaser further agrees to pay interest on the diminishing balance of said purchase price at the rate of 7-1/2 per cent per annum from the 15 day of February, 1974 which interest shall be deducted from each installment payment and the balance of each payment applied in reduction of

All payments to be made hereunder shall be made at 2920 Seattle-1st Natl. Bank Bldg, Seattle, WA, or at such other place as the seller may direct in writing.

Purchaser agrees to pay principal and interest as follows:

- \$20,000.00 on principal, in 1975, on or before February 1, 1975;
- \$20,000.00 on principal, in 1976, on or before February 1, 1976;
- \$20,000.00 on principal, in 1977, on or before February 1, 1977.

Interest on diminishing balance of purchase price principal, at the rate of 7-1/2 per cent per annum from February 1, 1974 shall be paid on said dates of payment of said principal payments.

- As related to in this contract, "date of closing" shall be February 1, 1974.
- (1) The purchaser assumes and agrees to pay before delinquency all taxes and assessments that may be between grantor and grantee hereafter become a lien on said real estate; and if by the terms of this contract the purchaser has assumed payment of any mortgage, contract or other encumbrance, or has assumed payment of or agreed to purchase subject to, any taxes or assessments now a lien on said real estate, the purchaser agrees to pay the same before delinquency.
 - (2) The purchaser agrees, until the purchase price is fully paid, to keep the buildings now and hereafter placed on said real estate insured to the actual cash value thereof against loss or damage by both fire and windstorm in a company acceptable to the seller and for the seller's benefit, as his interest may appear, and to pay all premiums therefor and to deliver all policies and renewals thereof to the seller.
 - (3) The purchaser agrees that full inspection of said real estate has been made and that neither the seller nor his assigns shall be held to any covenant respecting the condition of any improvements thereon nor shall the purchaser or seller or the assigns of either be held to any covenant or agreement for alterations, improvements or repairs unless the covenant or agreement relied on is contained herein or is in writing and attached to and made a part of this contract.
 - (4) The purchaser assumes all hazards of damage to or destruction of any improvements now on said real estate or hereafter placed thereon, and of the taking of said real estate or any part thereof for public use; and agrees that no such damage, destruction or taking shall constitute a failure of consideration. In case any part of said real estate is taken for public use, the portion of the condemnation award remaining, after payment of reasonable expenses of procuring the same shall be paid to the seller and applied as payment on the purchase price herein unless the seller elects to allow the purchaser to apply all or a portion of such condemnation award to the rebuilding or restoration of any improvements damaged by such taking. In case of damage or destruction from a peril insurable against, the proceeds of such insurance remaining after payment of the reasonable expenses of procuring the same shall be devoted to the restoration or rebuilding of such improvements within a reasonable time, unless purchaser elects that said proceeds shall be paid to the seller for application on the purchase price herein.
 - (5) The seller has delivered, or agrees to deliver within 15 days of the date of closing, a copy of the policy of title insurance in standard form, or a commitment therefor, issued by Security Title Insurance Company of Seattle, insuring the purchaser to the full amount of said purchase price against loss or damage by reasonable title defects, the seller's title to said real estate as of the date of closing and containing no exceptions other than the following:
 - a. Printed general exceptions appearing in said policy form;
 - b. Liens or encumbrances which by the terms of this contract the purchaser is to assume or discharge or which are otherwise hereunder to be made subject to, and
 - c. Any existing contract or contracts under which seller is purchasing said real estate, and any other contracts, obligations, which seller by this contract agrees to pay, none of which for the purpose of this paragraph (5) constitute material defects in seller's title.
 - (6) If seller's title to said real estate is subject to an existing contract or contracts under which seller is purchasing said real estate, or any mortgage or other obligation which seller is to pay, seller agrees to make such payments in accordance with the terms thereof, and upon default, the purchaser shall have the right to make any payments necessary to remove the default, and any payments so made shall be applied to the payments now falling due the seller under this contract.



(7) The seller agrees, upon receiving full payment of the purchase price and interest in the manner above specified, to execute and deliver to purchaser a statutory warranty deed to said real estate, reserving any and all third easements taken for public use, free of encumbrances except any that may attach after date of closing through any reason other than the seller, and subject to the following:

Utility easement, conveyed and granted to the Municipality of Metropolitan Seattle, which bears date of December 14, 1973, permanently over and across the northeasterly portion of the above-described property.

1402020125

(8) Unless a different date is provided herein, the purchaser shall be entitled to possession of said real estate on date of closing and to retain possession so long as purchaser is not in default hereunder. The purchaser covenants to keep the buildings and other improvements on said real estate in good repair and not to demolish, or permit the use of, the real estate for any illegal purpose. The purchaser covenants to pay all service, installation or construction charges for water, sewer, electricity, garbage or other utility services furnished to said real estate after the date purchaser is entitled to possession.

(9) In case the purchaser fails to make any payment herein provided or to maintain insurance, as herein required, the seller may make such payment or effect such insurance, and any amounts so paid by the seller, together with interest at the rate of 10% per annum thereon from date of payment until repaid, shall be repayable by purchaser on seller's demand, all without prejudice to any other right the seller might have by reason of such default.

(10) Time is of the essence of this contract, and it is agreed that in case the purchaser shall fail to comply with or perform any condition or agreement hereof or to make any payment required hereunder promptly at the time and in the manner herein required, the seller may elect to declare all the purchaser's rights hereunder terminated, and upon his doing so, all payments made by the purchaser hereunder and all improvements placed upon the real estate shall be forfeited to the seller as liquidated damages, and the seller shall have right to re-enter and take possession of the real estate; and no waiver by the seller of any default on the part of the purchaser shall be construed as a waiver of any subsequent default.

Service upon purchaser of all demands, notices or other papers with respect to forfeiture and termination of purchaser's rights may be made by United States Mail, postage pre-paid, return receipt requested, directed to the purchaser at his address last known to the seller.

(11) Upon seller's election to bring suit to enforce any covenant of this contract, including suit to collect any payment required hereunder, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, which sums shall be included in any judgment or decree entered in such suit.

If the seller shall bring suit to procure an adjudication of the termination of the purchaser's rights hereunder, and judgment is so entered, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such suit, and also the reasonable cost of searching records to determine the condition of title at the date such suit is commenced, which sums shall be included in any judgment or decree entered in such suit.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date first written above.

RAZORE ENTERPRISES, INC.

BY Jane Payne President
BY Jean Ryzard Secretary

SAFE INVESTMENT CO.

By Opell H. Johnson
By Jon W. Sather



Clem LaVoy
Opal LaVoy

STATE OF WASHINGTON,

MAIL TO:
SAFECO TITLE
ESCROW DEPT.

County of KING

ESCROW # 25903-25

On this 29th day of January, 1974, personally appeared
OPPELL H. JOHNSON and JON W. SATHER
to me known to be the President and Secretary, respectively, of
SAFE INVESTMENT CO.

the corporation that executed the foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that authorized to execute the said instrument and that the seal affixed is the corporate seal of said corporation.

In Witness Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.

Arthur S. Quinn
Notary Public in and for the State of Washington,
residing at Seattle.



STATE OF WASHINGTON,

County of KING

On this day personally appeared before me CLEM LAVOY and OPAL LAVOY

to me known to be the individual described in and who executed the within and foregoing instrument and acknowledged they signed the same as their free and voluntary act and deed for the purpose

of giving under me, hand and official seal this 29 day of January, 1974.

Sylvia Cummings
Notary Public in and for the State of Washington, residing at Seattle.



1402040025



SECURITY TITLE INSURANCE COMPANY
OF WASHINGTON
1900 AVENUE 10, SEATTLE, WASHINGTON 98101

Filed for Record at Request of

NAME _____

ADDRESS _____

CITY AND STATE _____

THIS SPACE RESERVED FOR RECORDER'S USE

1974 FEB 4 11 10 AM

DIRECTOR OF PUBLIC SAFETY
ELECTIONS - KING CO. WA
DEPT. OF PUBLIC SAFETY

FILED for Record at Request of
SAFECO TITLE INS. CO.
SEATTLE, WASH.

74 JRM/125

419

310
E # 249
7702010684 - E # F
0036 TAX PAID ON CONTRACT ACC. NO. E249203



Filed for Record at Request of
Name: John La Voy
Address: 700 N 31
City and State: Seattle, WA

RECORDED & INDEXED
FEB 1 1 34 PM '77
RECORDED KC DES

KING CO. REC'D
J. Touchoff
Statutory Warranty Deed

FEB-1-77

THE GRANTOR Safe Investment Co., a Washington corporation, and Clem La Voy and Opal La Voy, his wife

for and in consideration of Ten dollars
in hand paid, conveys and warrants to Rezone Enterprises, Inc., a Washington corporation,

the following described real estate, situated in the County of King, State of Washington:

PARCEL A: That portion of the south half of vacated Block 3, South Park platted as Lots 25 to 48 inclusive, according to plat recorded in Volume 4 of Plats, page 87, King County, Washington, lying southwesterly of SR 99; TOGETHER WITH south half of the vacated alley adjoining; EXCEPT that portion thereof conveyed to the State of Washington for highway purposes by deed recorded under King County Recording No. 5320163.

PARCEL B: The south 31 feet of vacated Lots 1 to 16 inclusive, vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington; TOGETHER WITH the north half of vacated alley adjoining; EXCEPT portion deeded to State of Washington by deed recorded under King County Recording No. 5205490.

PARCEL C: The south 31 feet of Lots 17 to 21, inclusive, ALL in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington, EXCEPT those portions thereof lying within West Marginal Way; and EXCEPT that portion thereof condemned by the State of Washington for highway purposes, in King County Superior Court Cause No. 515467, conveyed by deed recorded under King County Recording No. 5320164, TOGETHER WITH the north half of the vacated alley adjoining. Subject to the following:

Utility easement, conveyed and granted to the Municipality of Metropolitan Seattle, which bears date of December 14, 1973, permanently over and across the northwesterly portion of the above-described property. This deed is given in fulfillment of real estate contract executed January 9, 1974 between the parties hereto, and subject to terms and conditions thereof.

Dated this 7th day of January, 1977

SAFE INVESTMENT CO.

By [Signature] PRES. [Signature] (SEAL)

By [Signature] SECRET. [Signature] (SEAL)
STATE OF WASHINGTON.

County of King

On this day personally appeared before me: Clem La Voy and Opal La Voy, his wife

to me known to be the individuals described in and who executed the within and foregoing instrument and acknowledged that they signed the same as their (free and voluntary act) and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 7th day of January, 1977

[Signature]
Notary Public in and for the State of Washington,
residing at [Address]

STATE OF WASHINGTON.

County of KING



On this 7th day of January, A. D. 19 76
before me personally appeared OFELL H. JOHNSON and JEROME M. JOHNSON

to me known to be the President and Secretary respectively of the corporation that
executed the within and foregoing instrument, and acknowledged the said instrument to be the free and vol-
untary act and deed of said corporation for the uses and purposes therein mentioned, and on oath stated
that they were authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal this day and year first above
written.

Wilbur J. Quigley

Notary Public, bonded for the State of Washington, residing at Seattle.

1 N2010684

3.00

— E RF

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L 0 0 5 8 7

JUL--7-77



SECURITY TITLE INSURANCE COMPANY
OF WASHINGTON
INCORPORATED IN THE STATE OF WASHINGTON

THIS SPACE RESERVED FOR RECORDER'S USE
JUL 7 3 27 PM '77
RECORDED

Filed for Record at Request of

NAME UNKNOWN
ADDRESS _____
CITY AND STATE _____

Warranty Fulfillment Deed

THE GRANTOR RUBY M. NEWTON, a single woman on dates of acquiring title and at all times since

for and in consideration of **Ten Dollars and other good and valuable consideration** in hand paid, conveys and warrants to **MANITOU INVESTMENT COMPANY, INC.**

the following described real estate, situated in the county of **King** State of Washington:

Vacated Lots 34 through 40, inclusive, and portion of vacated street and alley adjoining, vacated Block 2 and vacated Lots 1 through 21, inclusive, and portion of vacated street adjoining vacated Block 3, EXCEPT the south 31 feet thereof all in South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington; EXCEPT that portion conveyed for street purposes by instrument recorded under Auditor's File No. 3186086 and EXCEPT portion taken for West Marginal Way under King County Superior Court Cause No. 515467 and EXCEPT all that portion of the following described Parcel "A" lying northeasterly of a line drawn parallel with and 10 feet southwesterly, then centered at right angles from the centerline of Primary State Highway No. 1, South Fifth Street to Jct. SSH 1-K

PARCEL "A": Lots 17 to 21, inclusive, ALL in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County, Washington; EXCEPT these portions thereof lying within West Marginal Way; and EXCEPT that portion thereof condemned by the State of Washington for highway purposes, in King County Superior Court Cause No. 515467 conveyed by Deed recorded under Auditor's File No. 5320164, and any portion conveyed by Auditor's File No. 5205450.



7707070936

This deed is given in fulfillment of that certain real estate contract between the parties hereto, dated **January 17, 1973**, and conditioned for the conveyance of the above described property, and the covenants of warranty herein contained shall not apply to any title, interest or encumbrance arising by, through or under the purchaser in said contract, and shall not apply to any taxes, assessments or other charges levied, assessed or becoming due subsequent to the date of said contract.

Dated this **17th** day of **January, 1973**



Ruby M. Newton
 Ruby M. Newton (S) (S)

STATE OF WASHINGTON
 County of **King**

On this day personally appeared before me **Ruby M. Newton**

to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that **she** signed the same as **her** free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this **13th** day of **January**, 1973

SALES TAX PAID ON CONTRACT APP. NO **208489**
 KING JO. ROSSIGNOL CLERK

John S. Robison
 Notary Public in and for the State of Washington
 residing at **Seattle**

BY *E. Springer* DEPUTY

X 11-2-61-5-52

After Recording Return To:
Preston Gates & Ellis LLP
701 Fifth Avenue, Suite 5000
Seattle, Washington 98104
Attn: Robert D. Neugebauer



980622-1628 02:45:00 PM KING COUNTY RECORDS 003 LLO 10.00

QUIT CLAIM DEED

Grantor: Razore Enterprises, Inc.

Grantee: Josie Razore

Legal Description:

Abbreviated Form: 500 South Sullivan Street, Seattle, WA 98108
Additional legal on Exhibit A to document

Assessor's Tax Parcel ID#: 766620 5336

THE GRANTOR, Razore Enterprises, Inc., a Washington corporation, for and in consideration of ten dollars (\$10.00) and other good and valuable consideration, conveys and quit claims to Josie Razore, the real property described on the attached Exhibit A (which is incorporated herein by reference), situated in the County of King, State of Washington, together with all after acquired title of the grantor therein.

Dated June 22, 1998.

RAZORE ENTERPRISES, INC.

By Marie Schulze
Marie Schulze, Vice President

K:\36969\00001\JDP\DeedSullivan1.doc

-1-

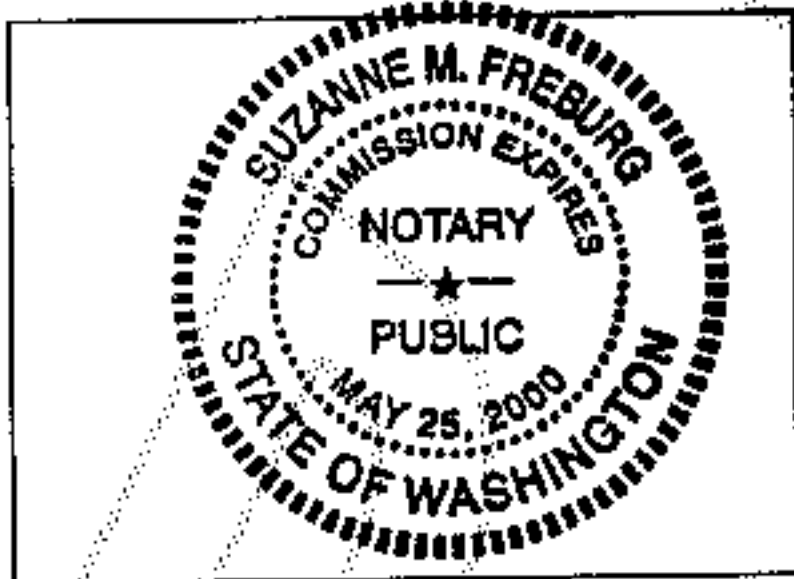
E1620162 06/22/98 11392.00 640000.00

9806221628

STATE OF WASHINGTON)
) ss.
COUNTY OF KING)

I certify that I know or have satisfactory evidence that Marie Schulze is the person who appeared before me, and said person acknowledged that she signed this instrument, on oath stated that she was authorized to execute the instrument and acknowledged it as the Vice President of Razore Enterprises, Inc. to be the free and voluntary act of such person for the uses and purposes mentioned in the instrument.

Dated: June 21 1998



(Use this space for notarial stamp/seal)

Suzanne M. Freiburg
Notary Public
Print Name Suzanne M. Freiburg
My commission expires May 25, 2000

9806221628

EXHIBIT A

Legal Description

Parcel A

That portion of the South half of vacated Block 3, South Park platted as Lots 25 to 48 inclusive, according to plat thereof recorded in Volume 4 of Plats, page 87, King

After Recording Return To:
Preston Gates & Ellis LLP
701 Fifth Avenue, Suite 5000
Seattle, Washington 98104
Attn: Robert D. Neugebauer



980622-1629 02:45:00 PM KING COUNTY RECORDS 009 LL9 10.00

QUIT CLAIM DEED

Grantor: Josie Razore

Grantee: Paper Fibers, Inc.


Legal Description:

Abbreviated Form: 500 South Sullivan Street, Seattle, WA 98108
Additional legal on Exhibit A to document

Assessor's Tax Parcel ID#: 788360 0600

THE GRANTOR, Josie Razore, who has decided to contribute the real property described on the attached Exhibit A (which is incorporated herein by reference), situated in the County of King, State of Washington, to Paper Fibers, Inc., a Washington corporation of which the grantor is the sole owner, conveys and quit claims his entire interest in such real property, together with all after acquired title of the grantor therein, to Paper Fibers, Inc.

Dated June 22, 1998.



Josie Razore

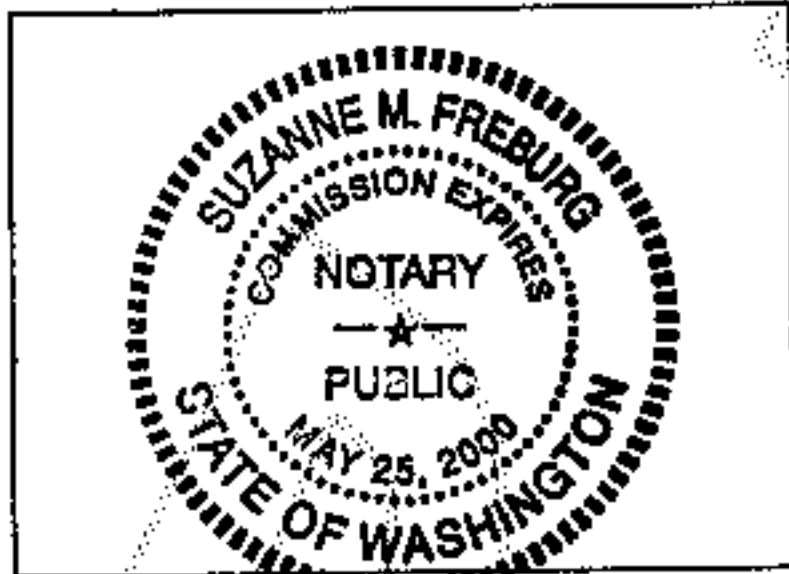
K:\36969\00001\JDP\DeedSullivan2.doc

9806221629

STATE OF WASHINGTON)
) ss.
COUNTY OF KING)

I certify that I know or have satisfactory evidence that Josie Razore is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: June 22, 1998



(Use this space for notary seal)

Suzanne M. Freburg
Notary Public
Print Name Suzanne M. Freburg
My commission expires May 25, 2000

9806221629

EXHIBIT A

Legal Description

Parcel A

That portion of the South half of vacated Block 3, South Park platted as Lots 25 to 48 inclusive, according to plat thereof recorded in Volume 4 of Plats, page 87, King County, Washington, lying southwesterly of SR 99; TOGETHER WITH South half of vacated alleyway adjoining; EXCEPT that portion thereof conveyed to the State of Washington for highway purposes by deed recorded under King County Recording No. 5320163.

SUBJECT to any and all other easements, covenants, and other restrictions of record.

Parcel B

The South 31 feet of vacated Lots 1 to 16 inclusive, vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County Washington; TOGETHER WITH North half of vacated alley adjoining; EXCEPT portion deeded to State of Washington by deed recorded under King County Recording No. 5205490.

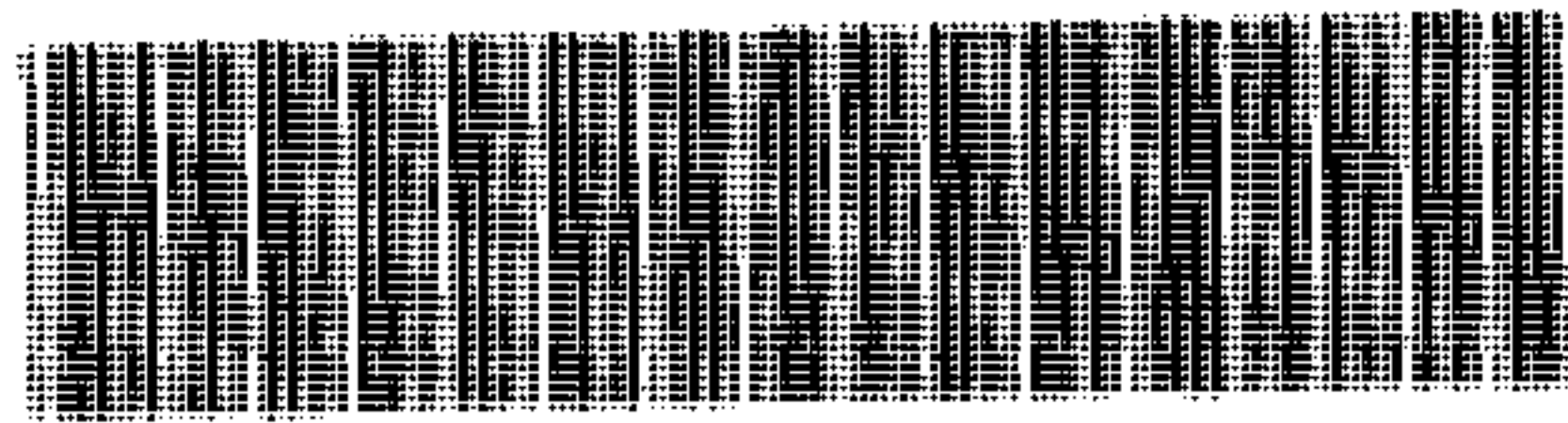
SUBJECT to any and all other easements, covenants, and other restrictions of record.

Parcel C

The South 31 feet of Lots 17 to 21, inclusive, all in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plats, page 87, in King County Washington; EXCEPT those portions thereof lying within West Marginal Way; and EXCEPT that portion thereof condemned by the State of Washington for highway purposes, in King County Superior Court Cause No. 515467, conveyed by deed recorded under King County Recording No. 5320164; TOGETHER WITH the North half of vacated alley adjoining:

Subject to the following: Utility Easement, conveyed and granted to the Municipality of Metropolitan Seattle, which bears date of December 14, 1973, permanently over and across the northeasterly portion of the above-described property.

SUBJECT to any and all other easements, covenants, and other restrictions of record.



20000218001354
PAGE 001 OF 003
02/18/2000 14:32
KING COUNTY, WA

FIRST AMERICAN WD 10.00

AFTER RECORDING MAIL TO:
First South Properties, L.L.C., A Washington Limited Liability Company
7343 E. Marginal Way S.
Seattle, WA 98108

E1736942
02/18/2000 13:59
KING COUNTY, WA
TAX \$11,932.68
SALE \$670,375.01

PAGE 001 OF 002

Filed for Record at Request of
First American Title/Seattle (3) 506826-5K
Escrow Number: 46698DG



Statutory Warranty Deed

Grantor(s): Paper Fibers, Inc., A Washington Corporation
Grantee(s): First South Properties, L.L.C., A Washington Limited Liability Company
Abbreviated Legal: Lot 1-21 & 25-48, Block 3, South Park, as per Plat recorded in Volume 4 of Plats, Page 87 inclusive, records of KING County, WA
Additional legal(s) on page:
Assessor's Tax Parcel Number(s): 788360-0600-08

2000 021 8001354

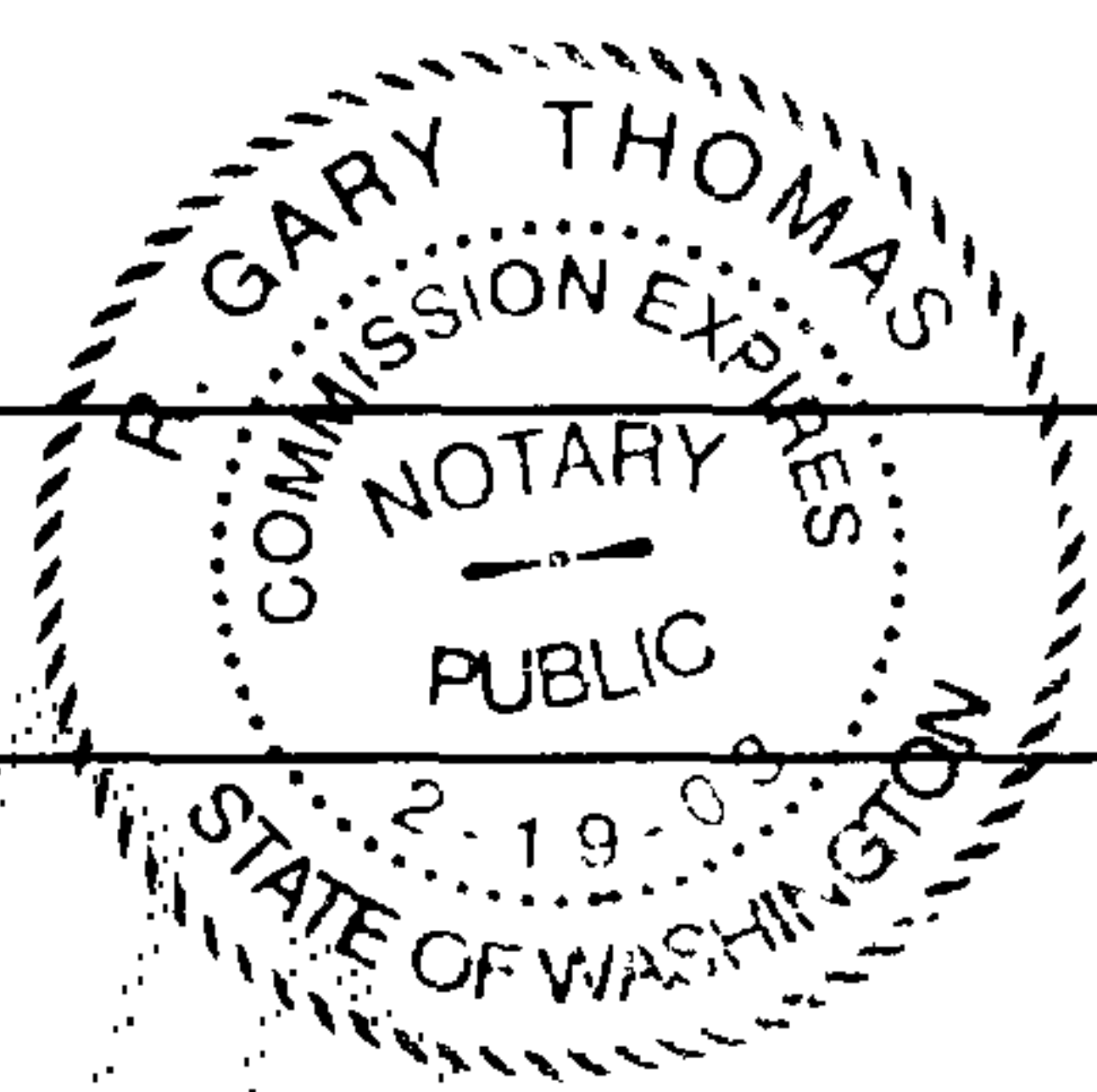
THE GRANTOR Paper Fibers, Inc., A Washington Corporation, a corporation for and in consideration of TEN DOLLARS AND OTHER GOOD AND VALUABLE CONSIDERATION in hand paid, conveys and warrants to First South Properties, L.L.C., A Washington Limited Liability company the following described real estate, situated in the County of KING, State of Washington: See attached legal description as Exhibit "A" and by this reference made a part hereof.

Subject to: easements, restrictions, reservations and provisions as attached hereto as Exhibit "B".

Dated this 10th day of February, 2000

By Paper Fibers, Inc., A Washington Corporation

By Nels Johnson, Vice-President
NELS JOHNSON, VICE-PRESIDENT
STATE OF WASHINGTON
County of King



I certify that I know or have satisfactory evidence that NELS JOHNSON is the person who appeared before me, and said person acknowledged that HE signed this instrument, on oath stated that HE IS authorized to execute the instrument and acknowledge it as the VICE PRESIDENT of PAPER FIBERS, INC. A WASH. CORPORATION to be the free and voluntary act of such party for the uses and purposes mentioned in this instrument.

Dated: 2-16-00

[Signature]

Notary Public in and for the State of WASHINGTON
Residing at EDMONDS
My appointment expires: 2/19/03

EXHIBIT "A"

PARCEL A:

THAT PORTION OF THE SOUTH HALF OF VACATED BLOCK 3 OF SOUTH PARK PLATTED AS LOTS 25 TO 48, INCLUSIVE, ACCORDING TO PLAT RECORDED IN VOLUME 4 OF PLATS AT PAGE(S) 87, IN KING COUNTY, WASHINGTON, LYING SOUTHWESTERLY OF SR 99, TOGETHER WITH THE SOUTH HALF OF VACATED ALLEY ADJOINING OR ABUTTING THEREON, WHICH UPON VACATION, ATTACHED TO SAID PREMISES BY OPERATION OF LAW, EXCEPT THAT PORTION CONVEYED TO THE STATE OF WASHINGTON FOR HIGHWAY PURPOSES BY DEED RECORDED UNDER RECORDING NO. 5320163

PARCEL B:

THE SOUTH 31 FEET OF VACATED LOTS 1 TO 16, INCLUSIVE, VACATED BLOCK 3 OF SOUTH PARK, ACCORDING TO PLAT RECORDED IN VOLUME 4 OF PLATS AT PAGE(S) 87, IN KING COUNTY, WASHINGTON;
TOGETHER WITH THE NORTH HALF OF VACATED ALLEY ADJOINING OR ABUTTING THEREON, WHICH UPON VACATION, ATTACHED TO SAID PREMISES BY OPERATION OF LAW; EXCEPT THAT PORTION CONVEYED TO THE STATE OF WASHINGTON BY DEED RECORDED UNDER RECORDING NO. 5205490

PARCEL C:

THE SOUTH 31 FEET OF LOTS 17 TO 21, INCLUSIVE, VACATED BLOCK 3 OF SOUTH PARK, ACCORDING TO PLAT RECORDED IN VOLUME 4 OF PLATS AT PAGE(S) 87, IN KING COUNTY, WASHINGTON;
EXCEPT THOSE PORTIONS THEREOF LYING WITHIN WEST MARGINAL WAY;
AND EXCEPT THAT PORTION CONDEMNED IN KING COUNTY SUPERIOR COURT CAUSE NO 515467 FOR HIGHWAY PURPOSES, CONVEYED BY DEED RECORDED UNDER RECORDING NO. 5320164;
TOGETHER WITH THE NORTH HALF OF VACATED ALLEY ADJOINING OR ABUTTING THEREON, WHICH UPON VACATION, ATTACHED TO SAID PREMISES BY OPERATION OF LAW

2000 021 8001354

EXHIBIT "B"

RELINQUISHMENT OF ALL EXISTING AND FUTURE RIGHTS TO LIGHT, VIEW AND AIR,
TOGETHER WITH THE RIGHTS OF ACCESS TO AND FROM THE STATE HIGHWAY
CONSTRUCTED ON LANDS CONVEYED BY INSTRUMENT.

RECORDED: SEPTEMBER 26, 1960
RECORDING NO.: 5205490
IN FAVOR OF: THE STATE OF WASHINGTON
(AS TO PARCEL B)

RELINQUISHMENT OF ALL EXISTING AND FUTURE RIGHTS TO LIGHT, VIEW AND AIR,
TOGETHER WITH THE RIGHTS OF ACCESS TO AND FROM THE STATE HIGHWAY
CONSTRUCTED ON LANDS CONVEYED BY INSTRUMENT:

RECORDED: AUGUST 21, 1961
RECORDING NO.: 5320163
IN FAVOR OF: THE STATE OF WASHINGTON
(AS TO PARCEL A)

RELINQUISHMENT OF ALL EXISTING AND FUTURE RIGHTS TO LIGHT, VIEW AND AIR,
TOGETHER WITH THE RIGHTS OF ACCESS TO AND FROM THE STATE HIGHWAY
CONSTRUCTED ON LANDS CONVEYED BY INSTRUMENT

RECORDED: AUGUST 21, 1961
RECORDING NO.: 5320164
IN FAVOR OF: THE STATE OF WASHINGTON
(AS TO PARCEL C)

EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN

RECORDED: MARCH 11, 1974
RECORDING NO.: 7403110477
IN FAVOR OF: MUNICIPALITY OF METROPOLITAN SEATTLE
FOR: A SEWER INTERCEPTOR
AFFECTS: THE NORTHEASTERLY 21 FEET OF PARCELS B AND C

WATER SERVICE AGREEMENT AND THE TERMS AND CONDITIONS THEREOF.

BETWEEN: RAZORE ENTERPRISES
AND: CITY OF SEATTLE

RECORDED: SEPTEMBER 18, 1984
RECORDING NO: 8409180727

EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN

RECORDED: FEBRUARY 5, 1986
RECORDING NO: 8602050509
IN FAVOR OF: MUNICIPALITY OF METROPOLITAN SEATTLE
FOR: A SEWER INTERCEPTOR AND A DISTRICT HEATING
AND COOLING SYSTEM
AFFECTS: THE SOUTHWESTERLY 14 FEET OF THE
NORTHEASTERLY 35 FEET OF SAID BLOCK 3, LYING
SOUTHERLY OF THE NORTH 89 FEET THEREOF AND
LYING SOUTHWESTERLY OF THE SOUTHWESTERLY
MARGIN OF PRIMARY STATE HIGHWAY NO. 1

2000 021 8001354

AFTER RECORDING MAIL TO
White Sands, L.L.C., a Washington Limited l
1125 NW 53rd Street
Seattle, WA 98107



20000411001312

FIRST AMERICAN WD
PAGE 001 OF 003
04/11/2000 14:07
KING COUNTY, WA

10.00

E1746454

04/11/2000 14:00
KING COUNTY, WA
TAX \$21,205.32
SALE \$1,191,310.0

PAGE 001 OF 001

Filed for Record at Request of
First American Title/Seattle
Escrow Number 46728DG



First American Title
Insurance Company

Statutory Warranty Deed

Grantor(s) First South Properties, L.L.C., a Washington Limited liability
company
Grantee(s) White Sands, L.L.C., a Washington Limited liability company
Abbreviated Legal LOTS 1-21 & 25-48, VACATED BLK 3, SOUTH PARK, as per Plat
recorded in Volume 4 of Plats, Page 87 inclusive, records of KING County, WA
Additional legal(s) on page.
Assessor's Tax Parcel Number(s) 788360-0600-08

IST AM-S
809127-5

2000 041 1001312

THE GRANTOR First South Properties, LLC, a Washington limited liability
company
for and in consideration of 'As part of an I.R.C. Section 1031 Tax Deferred Exchange'
in hand paid, conveys and warrants to White Sands, LLC, a Washington limited liability
company
the following described real estate, situated in the County of KING, State of Washington
See Attached Exhibit A


Subject to: easements, restrictions, reservations and provisions as
attached hereto as Exhibit "B"

Dated this 6th day of April, 2000

By _____

By First South Properties, L.L.C., a
Washington Limited liability
company

By _____

By 
Ralph Devin Manager

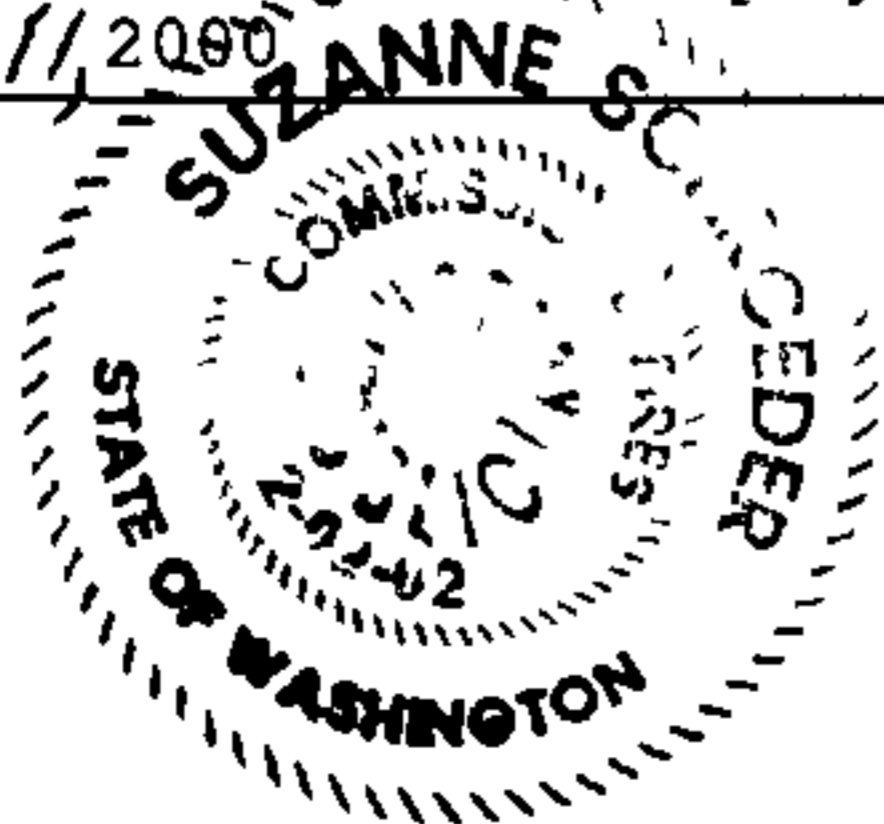
STATE OF WASHINGTON }
County of KING }

SS:

I certify that I know or have satisfactory evidence that Ralph Devin
is the person who appeared before
me, and said person he acknowledged that he signed this instrument, on oath stated that he is
authorized to execute the instrument and acknowledge it as the Manager
of First South Properties, L.L.C.

to be the free and voluntary act of such party for the uses and purposes mentioned in this instrument

Dated: April 11, 2000



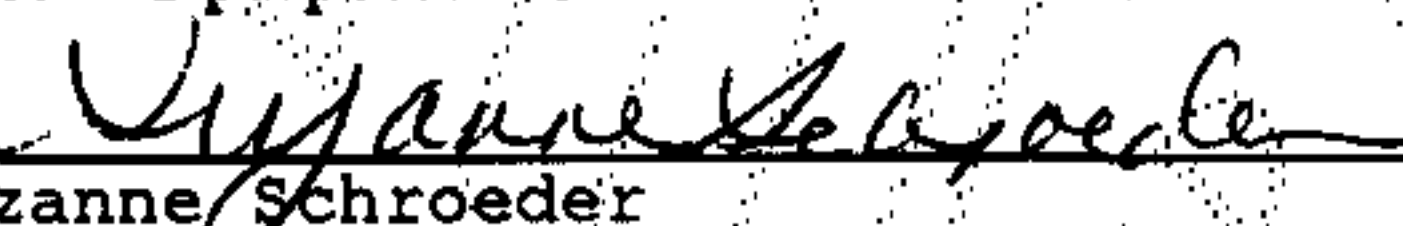

Suzanne Schroeder
Notary Public in and for the State of WASHINGTON
Residing at REDMOND
My appointment expires: 2/02/2002

EXHIBIT "A"

PARCEL A

THAT PORTION OF THE SOUTH HALF OF VACATED BLOCK 3 OF SOUTH PARK PLATTED AS LOTS 25 TO 48, INCLUSIVE, ACCORDING TO PLAT RECORDED IN VOLUME 4 OF PLATS AT PAGE(S) 87, IN KING COUNTY, WASHINGTON, LYING SOUTHWESTERLY OF SR 99; TOGETHER WITH THE SOUTH HALF OF VACATED ALLEY ADJOINING OR ABUTTING THEREON, WHICH UPON VACATION, ATTACHED TO SAID PREMISES BY OPERATION OF LAW, EXCEPT THAT PORTION CONVEYED TO THE STATE OF WASHINGTON FOR HIGHWAY PURPOSES BY DEED RECORDED UNDER RECORDING NO 5320163

PARCEL B

THE SOUTH 31 FEET OF VACATED LOTS 1 TO 16, INCLUSIVE, VACATED BLOCK 3 OF SOUTH PARK, ACCORDING TO PLAT RECORDED IN VOLUME 4 OF PLATS AT PAGE(S) 87, IN KING COUNTY, WASHINGTON, TOGETHER WITH THE NORTH HALF OF VACATED ALLEY ADJOINING OR ABUTTING THEREON, WHICH UPON VACATION, ATTACHED TO SAID PREMISES BY OPERATION OF LAW, EXCEPT THAT PORTION CONVEYED TO THE STATE OF WASHINGTON BY DEED RECORDED UNDER RECORDING NO 5205490

PARCEL C

THE SOUTH 31 FEET OF LOTS 17 TO 21, INCLUSIVE, VACATED BLOCK 3 OF SOUTH PARK, ACCORDING TO PLAT RECORDED IN VOLUME 4 OF PLATS AT PAGE(S) 87, IN KING COUNTY, WASHINGTON, EXCEPT THOSE PORTIONS HEREOF LYING WITHIN WEST MARGINAL WAY, AND EXCEPT THAT PORTION CONDEMNED IN KING COUNTY SUPERIOR COURT CAUSE NO 515467 FOR HIGHWAY PURPOSES, CONVEYED BY DEED RECORDED UNDER RECORDING NO 5320164, TOGETHER WITH THE NORTH HALF OF VACATED ALLEY ADJOINING OR ABUTTING THEREON, WHICH UPON VACATION, ATTACHED TO SAID PREMISES BY OPERATION OF LAW

2000 041 1001312

EXHIBIT "B"

RELINQUISHMENT OF ALL EXISTING AND FUTURE RIGHTS TO LIGHT, VIEW AND AIR,
TOGETHER WITH THE RIGHTS OF ACCESS TO AND FROM THE STATE HIGHWAY
CONSTRUCTED ON LANDS CONVEYED BY INSTRUMENT
RECORDED SEPTEMBER 26, 1960
RECORDING NO 5205490
IN FAVOR OF THE STATE OF WASHINGTON
(AS TO PARCEL B)

RELINQUISHMENT OF ALL EXISTING AND FUTURE RIGHTS TO LIGHT, VIEW AND AIR,
TOGETHER WITH THE RIGHTS OF ACCESS TO AND FROM THE STATE HIGHWAY
CONSTRUCTED ON LANDS CONVEYED BY INSTRUMENT

RECORDED AUGUST 21, 1961
RECORDING NO 5320163
IN FAVOR OF THE STATE OF WASHINGTON
(AS TO PARCEL A)

RELINQUISHMENT OF ALL EXISTING AND FUTURE RIGHTS TO LIGHT, VIEW AND AIR,
TOGETHER WITH THE RIGHTS OF ACCESS TO AND FROM THE STATE HIGHWAY
CONSTRUCTED ON LANDS CONVEYED BY INSTRUMENT
RECORDED AUGUST 21, 1961
RECORDING NO 5320164
IN FAVOR OF THE STATE OF WASHINGTON
(AS TO PARCEL C)

EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN
RECORDED MARCH 11, 1974
RECORDING NO 7403110477
IN FAVOR OF MUNICIPALITY OF METROPOLITAN SEATTLE
FOR A SEWER INTERCEPTOR
AFFECTS THE NORTHEASTERLY 21 FEET OF PARCELS B AND C

WATER SERVICE AGREEMENT AND THE TERMS AND CONDITIONS THEREOF
BETWEEN RAZORE ENTERPRISES
AND CITY OF SEATTLE
RECORDED SEPTEMBER 18, 1984
RECORDING NO 8409180727

EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN
RECORDED FEBRUARY 5, 1986
RECORDING NO 8602050509
IN FAVOR OF MUNICIPALITY OF METROPOLITAN SEATTLE
FOR A SEWER INTERCEPTOR AND A DISTRICT HEATING
AND COOLING SYSTEM
AFFECTS THE SOUTHWESTERLY 14 FEET OF THE
NORTHEASTERLY 35 FEET OF SAID BLOCK 3, LYING
SOUTHERLY OF THE NORTH 89 FEET THEREOF AND
LYING SOUTHWESTERLY OF THE SOUTHWESTERLY
MARGIN OF PRIMARY STATE HIGHWAY NO. 1

2000 041 1001312

**Attachment 3
Plat Maps**

RIVER PARK.

PORTLAND and PUGET SOUND R.R. ADDITION.



Description.

This plat of "River Park" embraces all the land included in the "George Holt Donation Claim N^o 51" in Sections 29 and 32, Township 24 North of Range 4 East of the Willamette Meridian in King County, State of Washington.

The Initial Point is the North West Corner of the "Augustus Hograve Donation Claim N^o 37", which point is distant 2397 ¹¹/₁₆ feet West of the Cottonwood tree at the South East corner of the said "George Holt Donation Claim N^o 51" and on the South line there of. Said Initial point is marked by a piece of railroad iron, and is 30 feet West of the South West Corner of Block 5, as shown on this Plat.

All regular lots are 25 x 100 feet in size. Dimensions of fractional lots and of all streets and Avenues are as indicated on the plat.

A. Eriz Rec.

Dedication.

This is to certify that we, Alexander Prentice and Jane Prentice, his wife, are the owners in fee simple of the "George Holt Donation Claim N^o 51" in Sections 29 and 32, Township 24 North of Range 4 East, in King County, State of Washington, and that we do hereby adopt, make and declare this plat of "River Park", dedicating to the public the use of the streets thereon shown.

In testimony whereof we have hereunto set our hands and seals this 10th day of January A.D. 1891.

In Presence of
David Myers } Alexander Prentice (Seal)
Ovid J. Byers } Jane Prentice (Seal)

72269.
Filed for record, at request of
T. H. Good
Feb. 2, 1891.
at 3:45 P.M. in the
Court room of King County
at Seattle, Wash.
Records of King County Wash.

Courtesy Auditor.

Acknowledgment.

State of Washington } ss
County of King }
On this 10th day of January A.D. 1891, personally appeared before me Ovid A. Byers, a Notary Public, Alexander Prentice and Jane Prentice, his wife, well known to me to be the persons named in and who executed the accompanying Dedication and Plat of "River Park" and upon examination by me, each of said persons did acknowledge for himself and herself, that they executed the same freely and voluntarily for the uses and purposes therein mentioned.

Witness my hand and official seal the date above.



Ovid A. Byers
Notary Public for State of Washington
residing at Seattle.

First Addition to FIFTH AVE

Scale 100 Feet - One Inch.

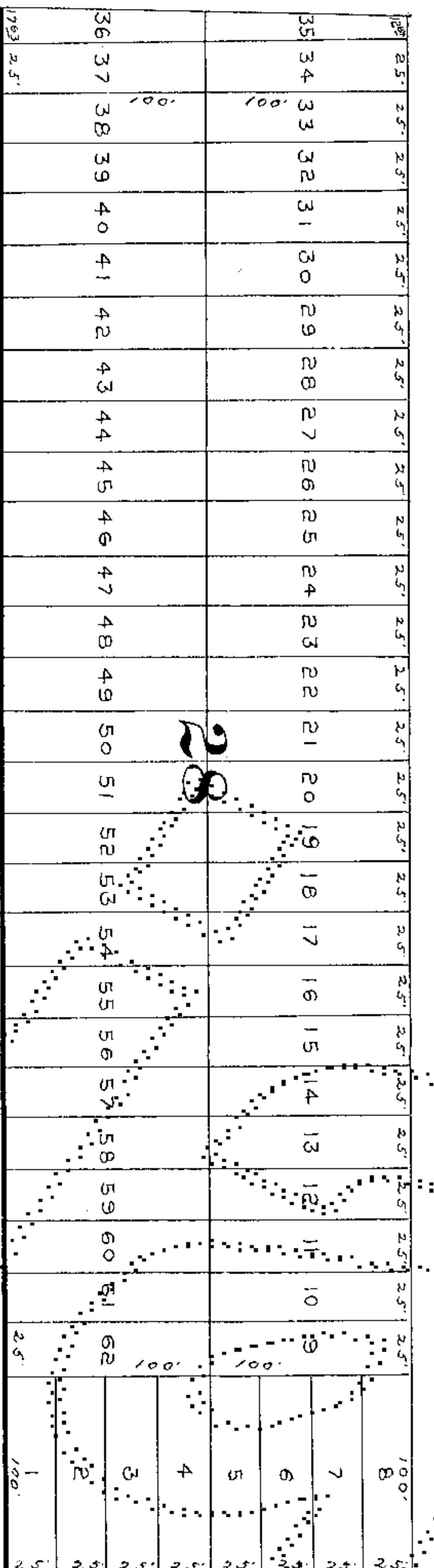
Clarence Lytle
Engineer & Surveyor

Shamrock

Sheet

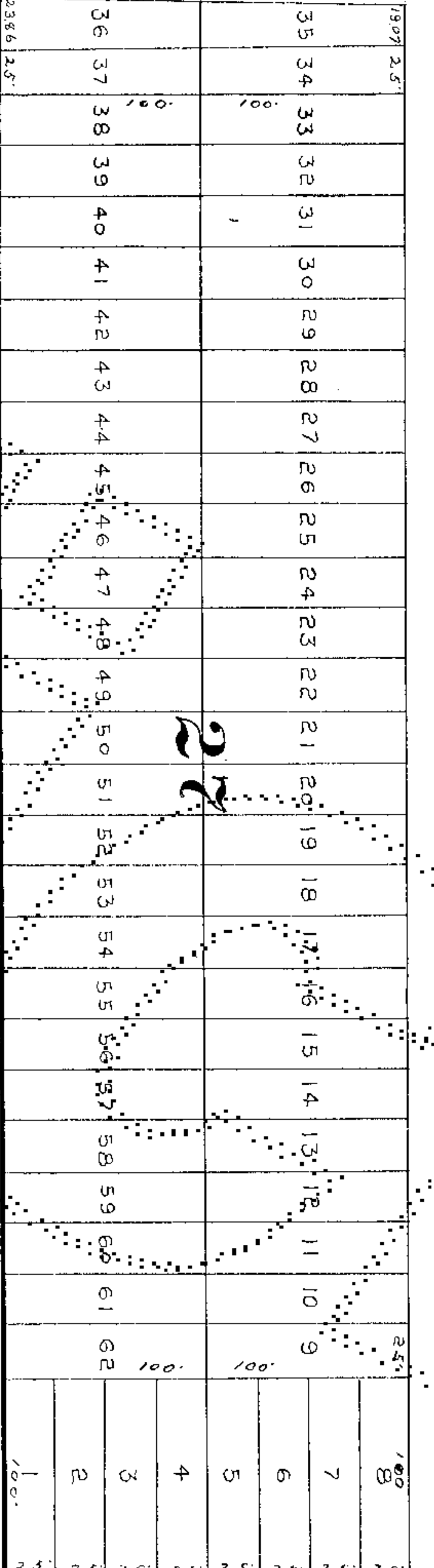
Highways
37

Pacific PORTLAND Avenue



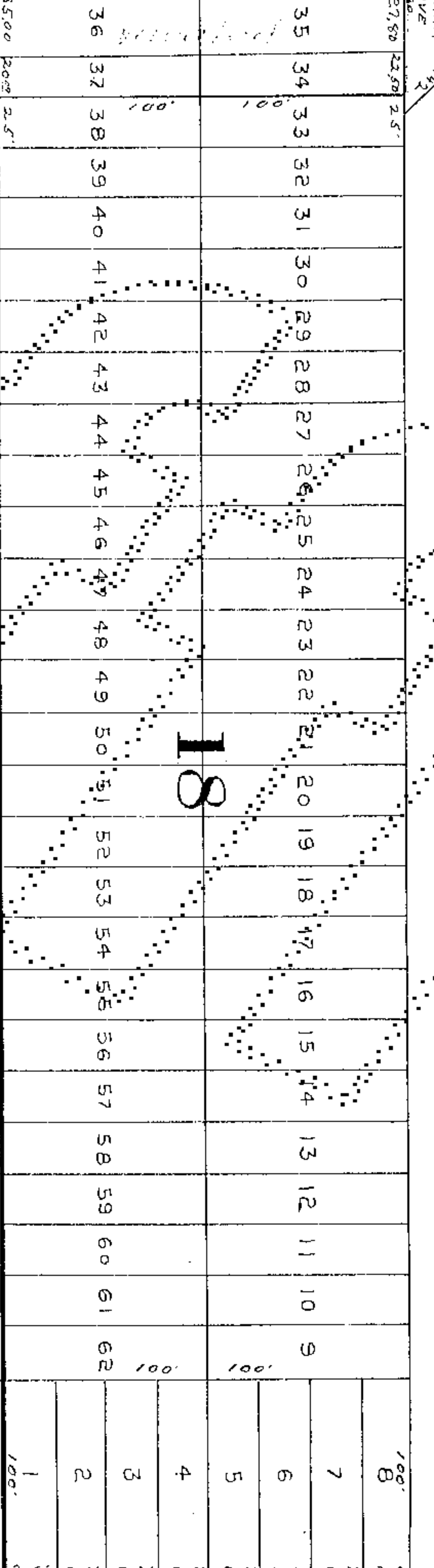
Atlantic CHICAGO Avenue

Sheet



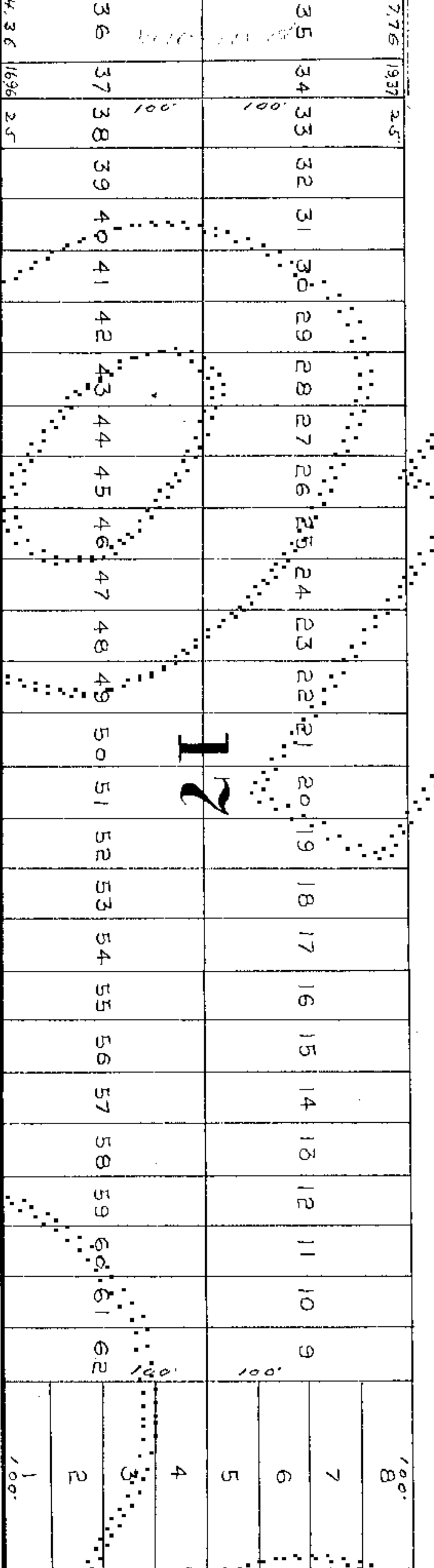
Cathedral AVE

Sheet



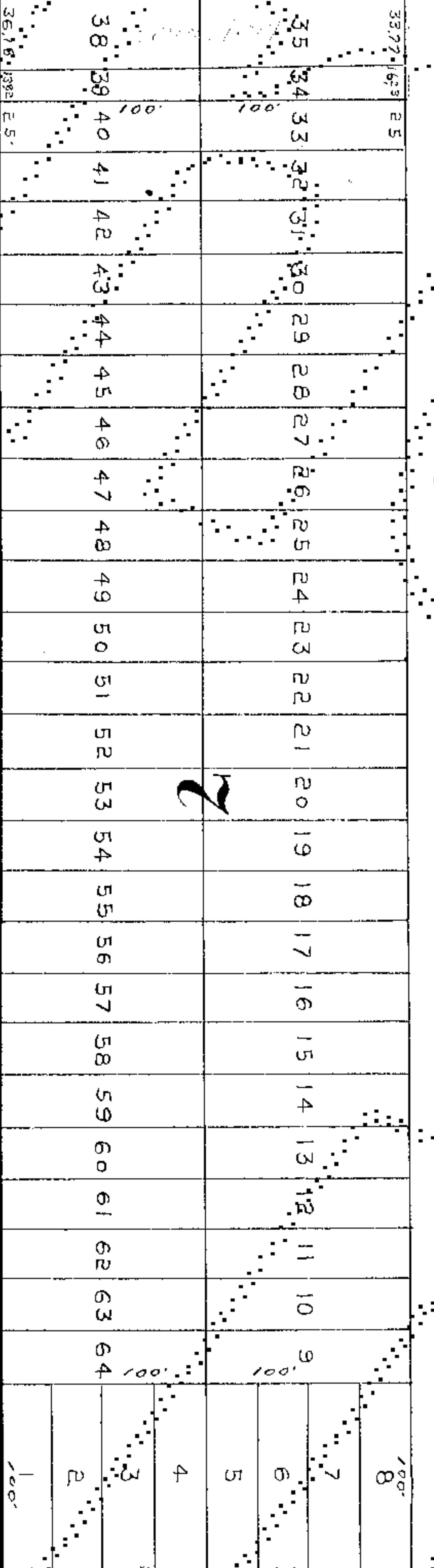
Ferntice AVE

Sheet



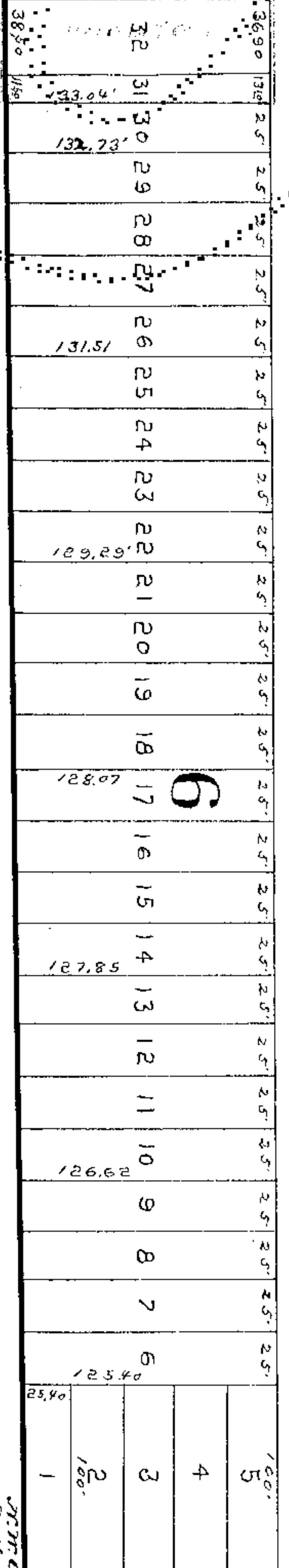
Blingrove AVE

Sheet



Southern AVE

Sheet



Southern AVE

Sheet

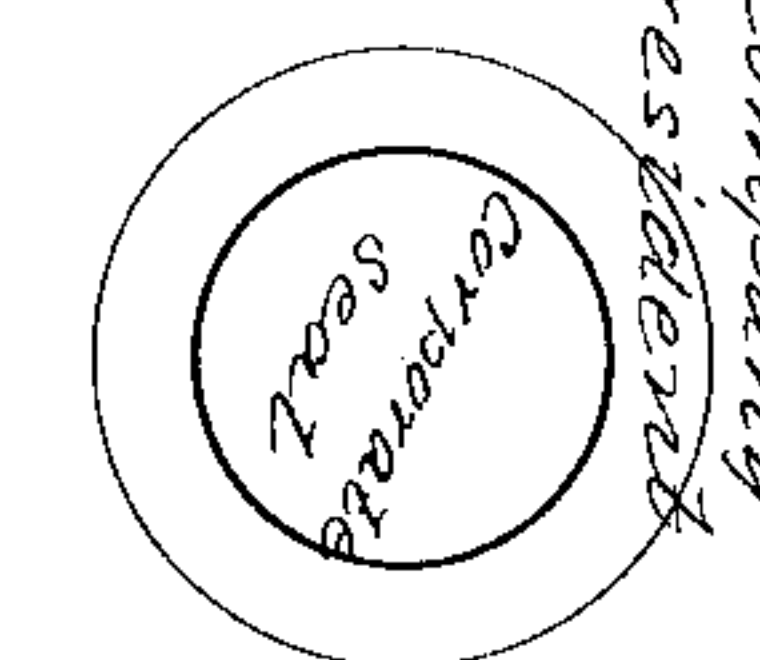
Description

This plat of the "First Addition to River Park" comprises all of the land included in the block of land designated as "Railroad Reserve" in the plat of River Park, said plat of River Park being dedicated and acknowledged by River Park and Lane Ferntice the 10th day of February 1894, and recorded in Volume 7 of Plats page 41 Records of King County Washington. The initial block is the North West corner of the Augustus Hegarty Donation Claim, pg. 37, which point is distant 339 1/2 ft west of the corner of the South East corner of the George W.H. Donation claim No 51 and on the south line thereof, said initial point is marked by a piece of railroad iron, and is 30 feet East of the South East corner of block 6 as shown on this plat. All regular lots are 25 by 100 feet in size. Dimensions of fractional lots and of all streets and avenues are as indicated on the plat. The streets in this plat are continuous of similarly named streets in the said plat of River Park.

Dedication

This is to certify that the Reliance Loan and Trust Company a corporation duly organized and doing business under the laws of the State of Washington is the owner in fee simple of the block of land designated on the plat of River Park as "Railroad Reserve, being a portion of the George W.H. Donation Claim, No 51 in sections 29 and 32 of Township 24 North of Range 4 East, in King County, State of Washington and that said Corporation by Resolution adopted at a meeting of the Trustees of said Corporation regularly called and held did adopt, make and declare this plat of the "First Addition, to River Park and did declare this plat public forever, the use of the streets and avenues thereon shown, and did authorize the President and executive secretary to sign, seal and acknowledge and execute this said plat. In witness whereof the said Corporation has hereunto caused its corporate name and seal to be affixed by its president and secretary this 25th day of October A. D. 1892.

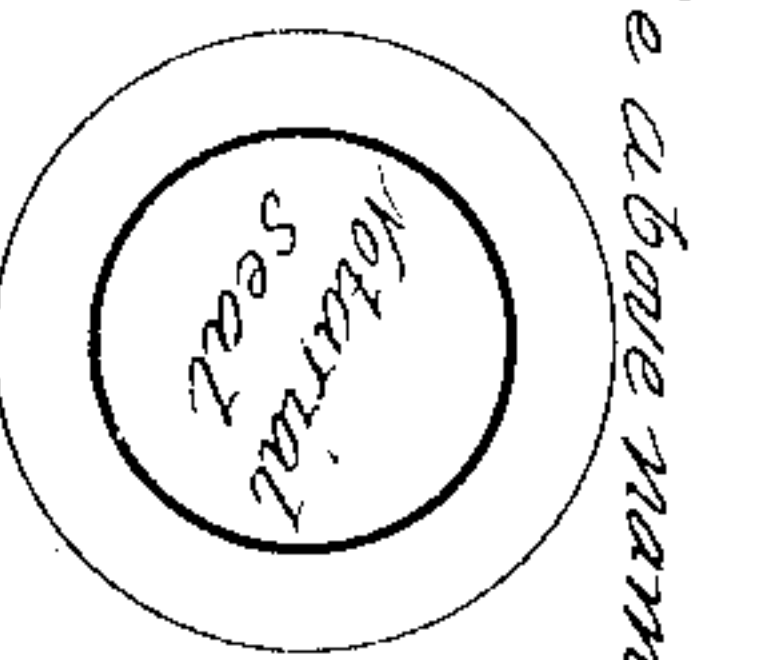
In presence of
 By Alexander Ferntice, President
 and A. Byers, Secretary
 J. A. Gould, Secretary



Acknowledgment

State of Washington }
 County of King }
 On this 25th day of October A. D. 1892, personally appeared before me, David A. Byers, a Notary Public, duly commissioned and sworn, in and for the State of Washington, Alexander Ferntice, President and J. A. Gould, Secretary of the Reliance Loan and Trust Company to me known to be the persons named in and who executed the accompanying dedication and plat of this First Addition to River Park and acknowledged that they executed the same freely and voluntarily as such officers for the uses and purposes therein mentioned.

Witness my hand and official seal the date above named.
 David A. Byers, Notary Public in and for the State of Washington, Residing at Seattle.



105088

Filed for Record at Report of
 Gould & Millwright
 Oct. 25 1892.
 at 13 Union, post 11 Clock 2 PM
 and recorded in Vol 101
 of Plats, page 65
 Records of King County Wash.
 County Auditor

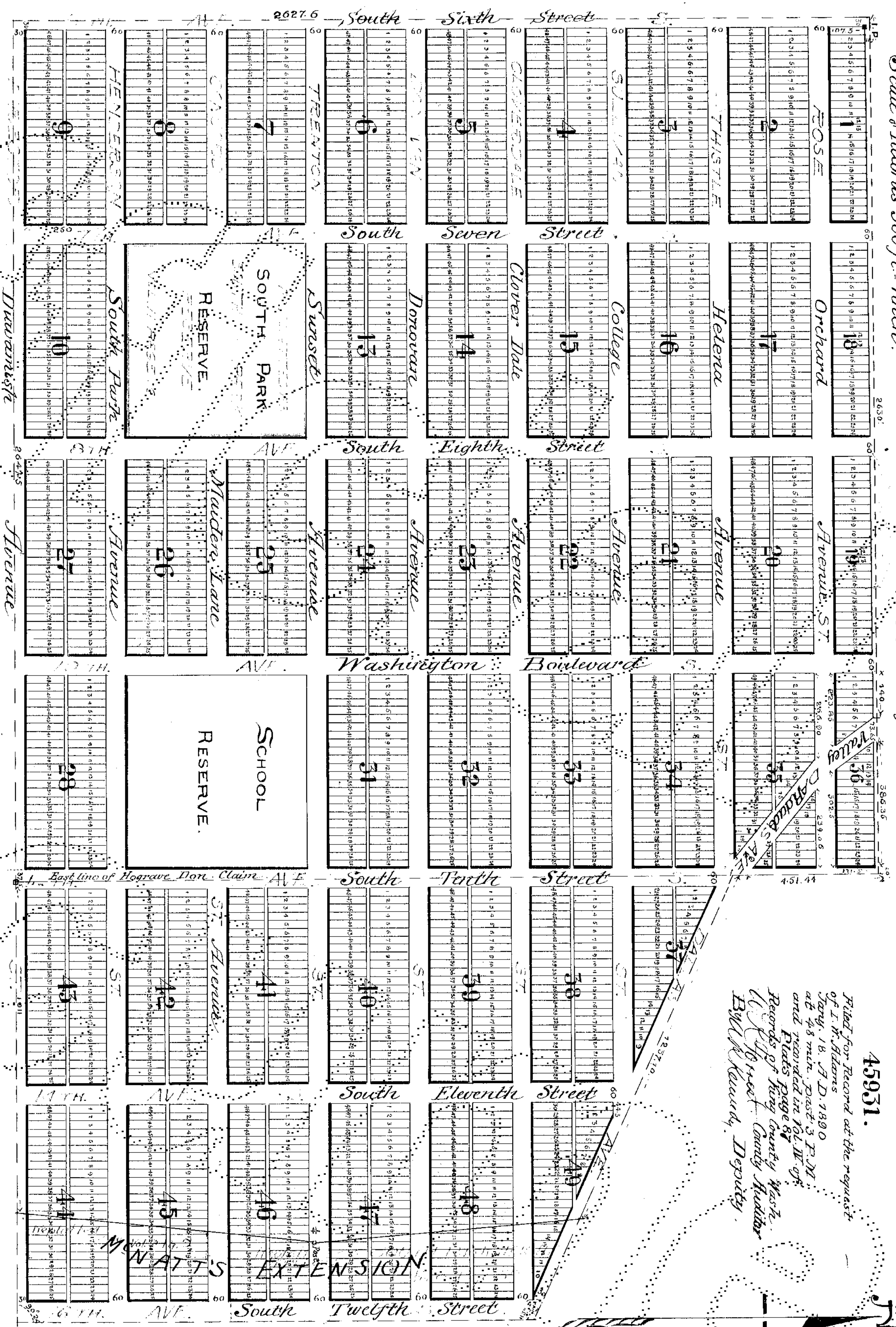
SOUTH PARK

Scale 200 ft. = 1 inch.
Scale of Records 500 ft. = 1 inch.

Albro Gardner,
Civil Engineer.

45931.

Filed for Record at the request
of I. W. Adams
May 18, A. D. 1890
at 4.8 miles East 3 P. M.
and recorded in 162 W. of
Plat 3 Page 64
Records of King County Wash.
A. N. Stewart, County Auditor
E. W. Howard, Deputy



DESCRIPTION.

This plat of South Park covers all of the H. Hograve Donation Claim, also a piece beginning at the S.E. cor. of the H. Hograve D. C. and running thence East 100 ft. on a prolongation of the Sixth line of the H. Hograve D. C. thence N. 9° 56' E. 92.85 ft. to the 4th point, thence S 82° 33' thence North along the Sec. line 733.49 feet to the centre of Valley Road, thence S 65° 40' W. 367 ft. to the East line of the H. Hograve D. C. thence South along said East line 2190.56 ft. to place of beginning, all in Sec. 32, T3. 24, N. 13, R. 4, E. W. 11. The District Point is the N. W. cor. of Block 1 which is 35 ft. East & 14 ft. South of the S. W. cor. of the H. Hograve Donation Claim. All regular lots .25 x 120 ft.

DEDICATION.

Know all men by these presents, that we, I. William Adams and Frances C. Adams (husband and wife) of Helena City, Lewis and Clark County, Montana, do hereby declare the foregoing plat and data to be for the use of the public, to wit: and excepting the rights and privileges, hereafter reserved, all of the Streets Adams Boulevard and Alleys, as shown hereon, reserving, however, and this declaration is hereby expressly made subject thereto, to the said I. W. Adams and F. C. Adams, their heirs, executors, administrators, and assigns, the sole and exclusive rights, to wit: on any of said streets, avenues, alleys and boulevards, above, to have or on the surface thereof by them and their assigns, perpetually, for the purpose of laying out, repairing and maintaining or said Streets, Avenues, Alleys and Boulevards, mains and pipes necessary and convenient for waterworks, gas works, electric wires and all other similar purposes and uses, and also reserving, to said I. W. Adams and F. C. Adams, their legal representatives and assigns, the sole and exclusive right, perpetually to construct, maintain and operate over any and all of said Streets, Avenues, Alleys and Boulevards, Streetcars, Tramsways, and other devices for transporting passengers and freight, whether propelled by electricity, steam, animal, cable or other motive power, and also reserving to said I. W. Adams and F. C. Adams the sole and exclusive right to construct, erect, repair and maintain, through and over any and all of said Streets, Avenues, Alleys and Boulevards and other public places, poles and wires, above, or on the surface, for telegraphic, telephone and electric light purposes, and also reserving to said I. W. Adams and F. C. Adams the sole and exclusive right to assign all the manner of utility, and riparian rights, privileges and appurtenances, in any wise belonging to any of the lands, blocks and lots, embraced in this plat. It is the intention, hereby to reserve to said I. W. Adams and F. C. Adams, their legal representatives and assigns, all rights and privileges, not hereby expressly granted, which witnesses whereof the said I. William Adams and Frances C. Adams have hereunto set their hands and seals on this 18 day of May, A. D. 1890.

In presence of:
H. O. Steacy
Edward W. Logan

I. William Adams
Frances C. Adams

ACKNOWLEDGMENT.

State of Washington }
County of King }

On this 18 day of May, A. D. 1890, before me, the undersigned a Notary Public in and for said County and State, personally came I. William Adams and Frances C. Adams his wife, to me known to be the persons described in and who executed the foregoing declaration and acknowledged that they signed and stated the same as their free and voluntary act and deed, for the uses and purposes therein mentioned. That the said Frances C. Adams upon an examination by me, separate and apart from her said husband, when the contents of said instrument were by me fully made known unto her, acknowledged that she did, freely and voluntarily, and without fear of or coercion from her husband, execute the same.

Witness my hand and official seal this day and year in this certificate first above written.
H. O. Steacy
Notary Public in and for Wash.



RECORDER'S CERTIFICATE A.F. No. 8009159001 **25-79**
 FILED FOR RECORD THIS 15TH DAY OF Sept., 1980 AT 3:00 P.M. IN
 BOOK 25 OF SURVEYS, PAGE 79 AT THE REQUEST OF
GORDON S. RECTOR

JAMES S. WEEKS CLINT G. ELSON
 SUPT. OF RECORDS MANAGER

LAND SURVEYOR'S CERTIFICATE
 THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY
 DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY
 RECORDING ACT AT THE REQUEST OF LONG PAINTING CO. IN SEPT., 1980

11691
 CERTIFICATE NO.

LEGAL DESCRIPTION

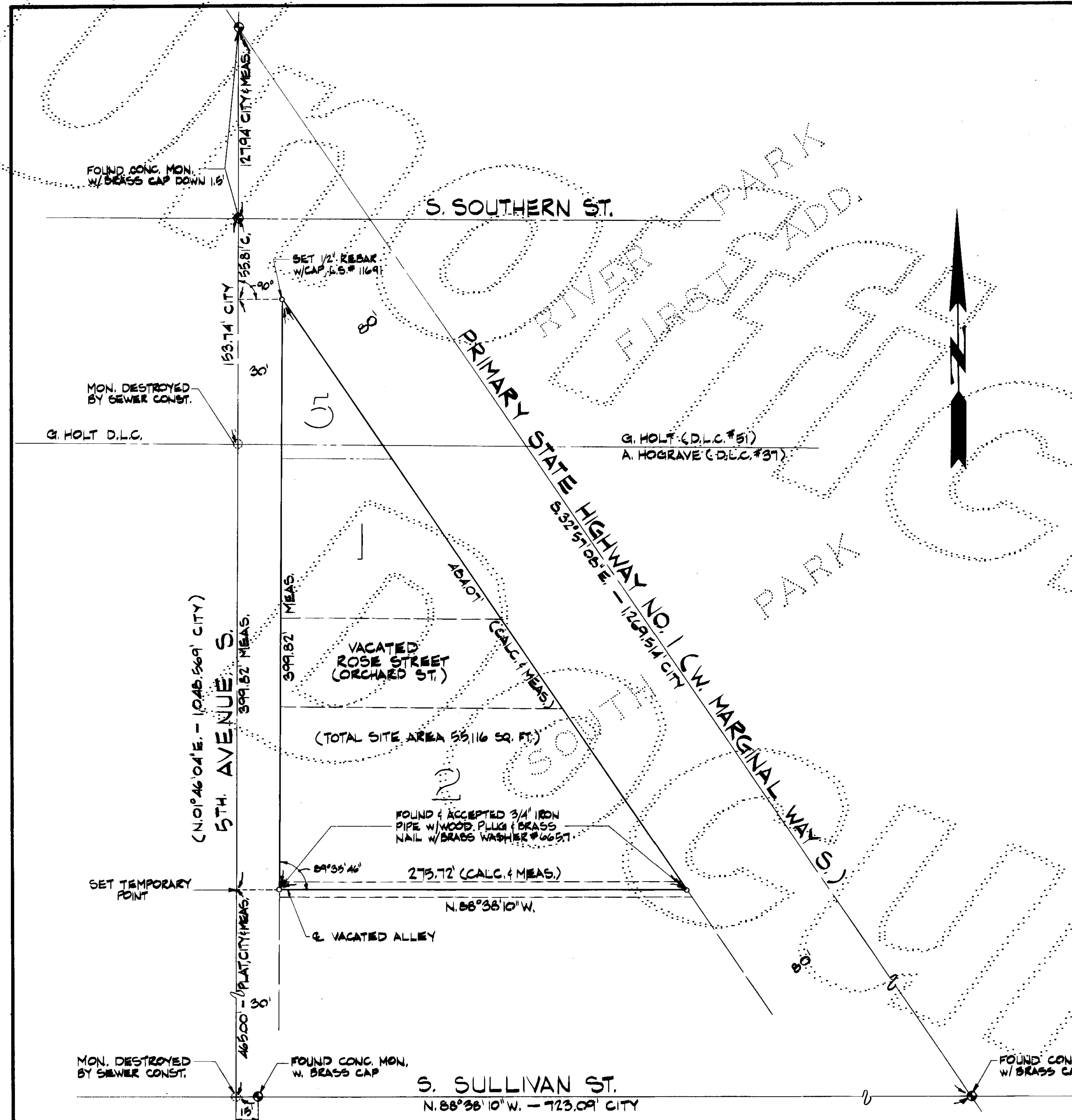
LOTS 20 TO 24, INCLUSIVE, BLOCK 5, RIVER PARK, ACCORDING TO THE PLAT RECORDED
 IN VOLUME 7 OF PLATS, PAGE 41, IN KING COUNTY, WASHINGTON, EXCEPT THAT PORTION
 LYING WITHIN WEST MARGINAL WAY SOUTH.

TOGETHER WITH:

THAT PORTION OF VACATED BLOCK 1 AND NORTH HALF OF VACATED ORCHARD STREET, NOW
 ROSE STREET, ADJOINING, LYING WEST OF WEST MARGINAL WAY, ALL IN SOUTH PARK,
 ACCORDING TO THE PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 87, IN KING COUNTY,
 WASHINGTON; TOGETHER WITH ALL THAT PORTION OF THE ALLEY DIRECTLY NORTH AND
 ADJACENT TO SAID TRACT, BEING 10 FEET IN WIDTH; EXCEPT THAT PORTION CONVEYED
 TO THE STATE OF WASHINGTON FOR PRIMARY STATE HIGHWAY NO. 1 BY DEED RECORDED
 UNDER AUDITOR'S FILE NO. 4834872.

TOGETHER WITH:

THAT PORTION OF THE NORTH HALF OF VACATED BLOCK 2, SOUTH PARK, ACCORDING TO
 THE PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 87, IN KING COUNTY, WASHINGTON;
 AND SOUTH HALF OF VACATED ROSE STREET, FORMERLY ORCHARD STREET ADJOINING, AND
 ALSO THE NORTH HALF OF VACATED ALLEY ADJOINING LOTS PLATTED AS LOTS 1 THROUGH
 13, INCLUSIVE, ALL LYING WESTERLY OF THE SOUTHWESTERLY MARGIN OF THAT TRACT
 OF LAND CONVEYED TO STATE OF WASHINGTON FOR PACIFIC STATE HIGHWAY NO. 1, UNDER
 INSTRUMENT RECORDED UNDER AUDITOR'S FILE NO. 4965539, RECORDS OF KING COUNTY,
 WASHINGTON.



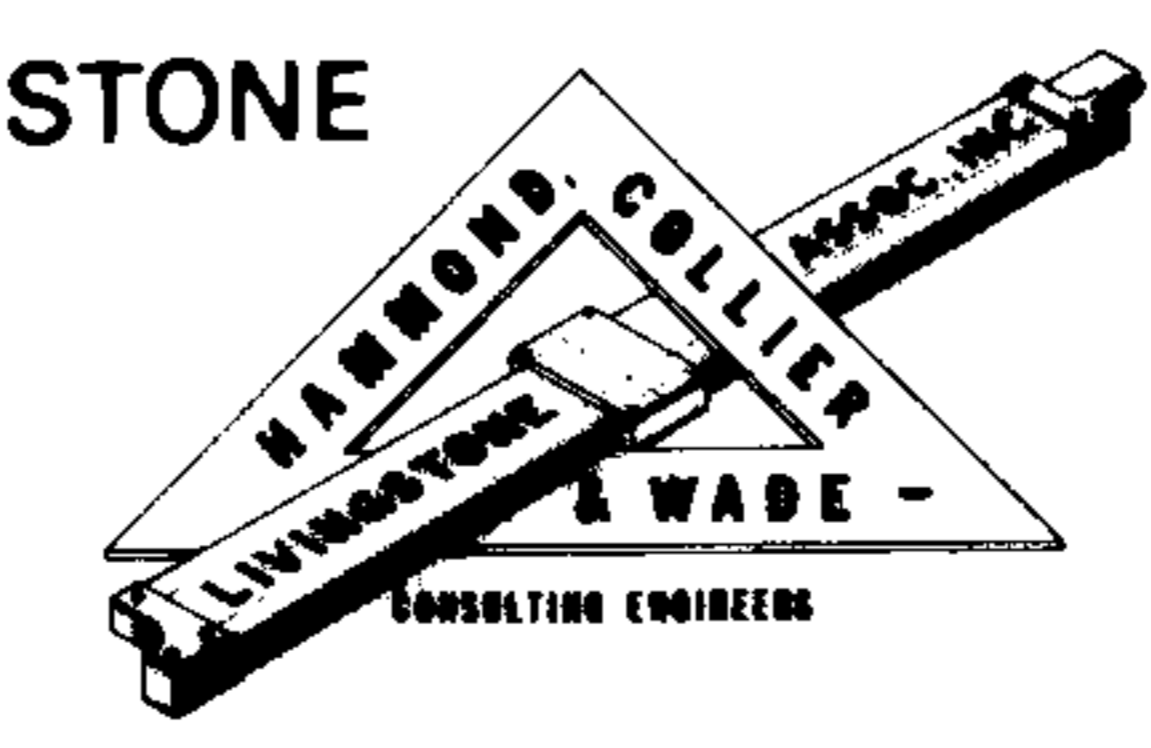
REVISIONS		
SYM.	DESCRIPTION	DATE

GENERAL NOTES
 MERIDIAN WASH. STATE COOR-
 DINATE SYSTEM (N. ZONE) AS
 ESTABLISHED BY CITY OF
 SEATTLE.

SURVEYED BY: F.W.
 DRAWN BY: M.J.M.
 CHECKED BY: 20
 APPROVED BY: JBR
 DATE: SEPT., 1980
 SCALE: 1" = 50'
 FB. NO.: 511



HAMMOND, COLLIER & WADE - LIVINGSTONE
 ASSOCIATES, INC.
 CONSULTING ENGINEERS
 4010 STONE WAY N.
 SEATTLE, WASHINGTON 98103
 (206) 832-2664



PLAT OF SURVEY
 FOR
LONG PAINTING CO.
 PTN. NE 1/4, NW 1/4, SEC. 32, TWP. 24N, R. 1E, W. 1M.

DRAWING NO.
80-65
 SHEET OF
 1

South Park Landfill

**Remedial Investigation/
Feasibility Study**

**Appendix B
Boring, Well, Landfill Gas Probe, and
Test Pit Construction Logs**

Table of Contents

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 - Historical RETS Borings
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Tables

Table B.1 – Summary of Historical Sample Locations

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
BH-01	--	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-02	BH-2	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-03	BH-3	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-04	BH-4	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-05	BH-5	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-06	BH-6	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-07	BH-7	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-08	BH-8	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-09	BH-9	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-10	BH-10	On-site	KIP	1995	Temp Gas Probe	BBL 1995	
BH-11	BH-11	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-12	BH-12	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-13	BH-13	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-14	BH-14	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-15	BH-15	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-16	BH-16	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-17	BH-17	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-18	BH-18	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-19	BH-19	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-20	BH-20	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-21	BH-21	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-22	BH-22	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-23	BH-23	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-24	BH-24	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-25	BH-25	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-26	BH-26	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
BH-27	BH-27	On-site	KIP	1995	Temp Gas Probe	BBL 1995	X
C-01	C-01	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-02	C-02	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-03	C-03	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-04	C-04	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-05	C-05	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-06	C-06	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-07	C-07	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-08	C-08	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-09	C-09	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-10	C-10	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-11	C-11	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-12	C-12	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-13	C-13	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-14	C-14	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-15	C-15	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-16	C-16	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-17	C-17	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-18	C-18	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-19	C-19	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-20	C-20	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-21	C-21	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-22	C-22	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-23	C-23	On-site	SPPD	2007	Test Pit	Farallon 2007	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
C-24	C-24	On-site	SPPD	2007	Test Pit	Farallon 2007	X
C-25	C-25	On-site	SPPD	2007	Test Pit	Farallon 2007	X
CG-01	CG-1	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-02	CG-2	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-03	CG-3	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-04	CG-4	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-05	CG-5	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-06	CG-6	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-07	CG-7	Perimeter	SPPD		Temp Gas Probe	SKCPHD	
CG-08	CG-8	Perimeter	Right of Way - 5th Ave. S.		Temp Gas Probe	SKCPHD	
CG-09	CG-9	Perimeter	SPPD		Temp Gas Probe	SKCPHD	
CG-10	CG-10	Perimeter	SPPD		Temp Gas Probe	SKCPHD	
CG-12	CG-12	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-13	CG-13	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-14	CG-14	Perimeter	SPPD		Temp Gas Probe	SKCPHD	
CG-15	CG-15	Perimeter	SPPD		Temp Gas Probe	SKCPHD	
CG-16	CG-16	Near Vicinity	ROW-SDOT		Temp Gas Probe	SKCPHD	
CG-17	CG-17	Near Vicinity	ROW-SDOT		Temp Gas Probe	SKCPHD	
CG-18	CG-18	Near Vicinity	ROW-SDOT		Temp Gas Probe	SKCPHD	
CG-19	CG-19	On Site	SPPD		Temp Gas Probe	SKCPHD	
CG-20	CG-20	On-site	SPPD		Temp Gas Probe	SKCPHD	
CG-21	CG-21	On-site	SRDS		Temp Gas Probe	SKCPHD	
DSB-1	--	On-site	SRDS		Soil Boring	Herrera	
DSB-2	--	On-site	SRDS		Soil Boring	Herrera	
DSB-3	--	On-site	SRDS		Soil Boring	Herrera	
DHA-1	--	On-site	SRDS		Hand Auger Boring	Herrera	
DHA-2	--	On-site	SRDS		Hand Auger Boring	Herrera	
DHA-3	--	On-site	SRDS		Hand Auger Boring	Herrera	
DHA-4	--	On-site	SRDS		Hand Auger Boring	Herrera	
DHA-5	--	On-site	SRDS		Hand Auger Boring	Herrera	
DHA-6	--	On-site	SRDS		Hand Auger Boring	Herrera	
DHA-7	--	On-site	SRDS		Hand Auger Boring	Herrera	
DHA-9	--	On-site	SRDS		Hand Auger Boring	Herrera	
D-315	D-315	Near Vicinity	ROW-SR 99		Piezometer	Converse	
D-316	D-316	Near Vicinity	ROW-SR 99		Monitoring Well	Converse	
D-317	D-317	Near Vicinity	ROW-SR 99		Piezometer	Converse	
D-322	D-322	Near Vicinity	ROW-SR 99		Piezometer	Converse	
DM-329	DM-329	Perimeter	ROW-SR 99		Piezometer	Converse	
DM-327	DM-327	Near Vicinity	ROW-SR 99		Piezometer	Converse	
DM-335	DM-335	Perimeter	ROW-SR 99		Piezometer	Converse	
DM-340	DM-340	Near Vicinity	ROW-SR 99		Piezometer	Converse	
FB-01	FB-1	Near Vicinity	ROW 1 st Ave. S	2008	Reconnaissance GW Sample	Farallon	X
FB-02	FB-2	Near Vicinity	ROW 1 st Ave. S	2008	Reconnaissance GW Sample	Farallon	X
FB-03	FB-3	Near Vicinity	ROW 1 st Ave. S	2008	Reconnaissance GW Sample	Farallon	X
FB-04	FB-4	Near Vicinity	ROW 1 st Ave. S	2008	Reconnaissance GW Sample	Farallon	X
FB-05	FB-5	Near Vicinity	ROW 1 st Ave. S	2008	Reconnaissance GW Sample	Farallon	X
FB-06	FB-6	Near Vicinity	ROW 1 st Ave. S	2008	Reconnaissance GW Sample	Farallon	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
FB-07	FB-7	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	X
FB-08	FB-8	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	X
FB-09	FB-9	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	X
FB-10	FB-10	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	X
FB-11	FB-11	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	X
FB-12	FB-12	Perimeter	ROW – 5 th Ave S	2011	Reconnaissance GW Sample	Aspect	X
FB-13	FB-13	Perimeter	ROW – 5 th Ave S	2011	Reconnaissance GW Sample	Aspect	X
FB-14	FB-14	Near Vicinity	ROW – 5 th Ave S	2011	Reconnaissance GW Sample	Aspect	X
GHA-1	--	On-site	SRDS		Hand Auger Boring	Herrera	
GHA-2	--	On-site	SRDS		Hand Auger Boring	Herrera	
GSB-1	--	On-site	SRDS		Soil Boring	Herrera	
GSB-2	--	On-site	SRDS		Soil Boring	Herrera	
GSB-3	--	On-site	SRDS		Soil Boring	Herrera	
GP-01	SB-1	On-site	SPPD	1997	Gas Probe	Udaloy	X
GP-02	SB-2	On-site	SPPD	1997	Gas Probe	Udaloy	X
GP-03	GP-3	Perimeter	ROW - S. Cloverdale St.	1998	Gas Probe	AESI	X
GP-05	GP-5	Near Vicinity	ROW by Emerson Power Products	1998	Gas Probe	AESI	X
GP-07	GP-7	Near Vicinity	ROW East of SR 99	1998	Gas Probe	AESI	X
GP-09	GP-9	Perimeter	ROW – SR 99 at 5 th Ave S	1998	Gas Probe	AESI	X
GP-11	GP-11	Near Vicinity	ROW by Int’s Equip’t	1999	Gas Probe	AESI	X
GP-13	GP-13	Near Vicinity	ROW by North Star	1999	Gas Probe	AESI	X
GP-15	GP-15	Near Vicinity	ROW by Emerson Power Products	1999	Gas Probe	AESI	X
GP-16	GP-16	Perimeter	SPPD	1999	Gas Probe	AESI	X
GP-17	GP-17	On-site	SPPD	1999	Gas Probe	AESI	X
GP-19	GP-19	On-site	SPPD	1999	Gas Probe	AESI	X
GP-20	GP-20	On-site	SPPD	1999	Gas Probe	AESI	X
GP-21	GP-21	On-site	SPPD	1999	Gas Probe	AESI	X
GP-22	GP-22	On-site	SPPD	1999	Gas Probe	AESI	X
GP-23	GP-23	Near Vicinity	ROW – East of SR 99	1999	Gas Probe	AESI	X
GP-24	GP-24	Near Vicinity	KIP	2011	Gas Probe	Herrera	X
GP-25	GP-25	Near Vicinity	KIP	2011	Gas Probe	Herrera	X
GP-26	GP-26	Near Vicinity	ROW- SR 99	2010	Gas Probe	Aspect	X
GP-27	GP-27	Perimeter	ROW – 5 th Ave S	2011	Gas Probe	Herrera	X
GP-28	GP-28	Perimeter	ROW – 5 th Ave S	2011	Gas Probe	Herrera	X
GP-29	GP-29	Perimeter	ROW – 5 th Ave S	2011	Gas Probe	Herrera	X
GP-30	GP-30	Near Vicinity	ROW – 5 th Ave S	2011	Gas Probe	Herrera	X
GP-31	GP-31	Near Vicinity	ROW – 5 th Ave S	2011	Gas Probe	Herrera	X
GP-32	GP-32	Perimeter	Emerson Power Products	2010	Gas Probe	Aspect	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
HMW-01	MW-1	On-site	SRDS		Monitoring Well	Herrera Environmental Consultants, Inc.	
HP-01	HP-1	Perimeter	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	X
HP-02	HP-2	Perimeter	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	X
HP-03	HP-3	Near Vicinity	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	X
HP-04	HP-4	On-site	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	X
HP-05	HP-5	On-site	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	X
HP-06	HP-6	On-site	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	X
KB-01	B-1	On-site	KIP	1992	Soil Boring	Diagnostic Engineering, Inc.	X
KB-02	B-2	On-site	KIP	1992	Soil Boring	Diagnostic Engineering, Inc.	X
KB-03	B-3	On-site	KIP	1992	Soil Boring	Diagnostic Engineering, Inc.	X
KMW-01	MW-1	On-site	KIP	1989	Monitoring Well	Golder Associates	X
KMW-01A	MW-1	Perimeter	KIP	1995	Monitoring Well	Blasland, Bouck & Lee, Inc.	X
KMW-02	MW-2	On-site	KIP	1989	Monitoring Well	Golder Associates	X
KMW-02B	MW-2B	On-site	KIP	1989	Monitoring Well	Golder Associates	X
KMW-03	MW-3	On-site	KIP	1995	Monitoring Well	Golder Associates	
KMW-03A	MW-3A	On-site	KIP	1995	Monitoring Well	Blasland, Bouck & Lee, Inc.	X
KMW-04	MW-4	On-site	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	X
KMW-05	MW-5	Near Vicinity	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	X
KMW-06	MW-6	Perimeter	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	X
KMW-07	MW-7	Near Vicinity	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	X
KMW-08	MW-8	Near Vicinity	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	X
MW-01	MW-1	Near Vicinity	North Star Ice Equipment	1991	Monitoring Well	Geo Engineers	X
MW-02	MW-2	Near Vicinity	North Star Ice Equipment	1991	Monitoring Well	Geo Engineers	X
MW-03	MW-3	Near Vicinity	North Star Ice Equipment	1991	Monitoring Well	Geo Engineers	X
MW-04	MW-4	Perimeter	Right of Way – S. Sullivan St.	1998	Monitoring Well	Associated Earth Sciences, Inc.	X
MW-06	MW-6	Near Vicinity	Emerson Power Products	1998	Monitoring Well	Associated Earth Sciences, Inc.	X
MW-08	MW-8	Near Vicinity	East of SR 99	1998	Monitoring Well	Associated Earth Sciences, Inc.	X
MW-10	MW-10	Perimeter	Right of Way – SR 99/5th Ave. S.	1998	Monitoring Well	Associated Earth Sciences, Inc.	X
MW-12	MW-12	Near Vicinity	Right of Way – Occidental Ave. S./ International Construction Equipment	1999	Monitoring Well	Associated Earth Sciences, Inc.	X
MW-14	MW-14	Near Vicinity	Right of Way – Occidental Ave. S./ North Star Ice Equipment	1999	Monitoring Well	Associated Earth Sciences, Inc.	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
MW-18	MW-18	On-site	SPPD	1999	Monitoring Well	Associated Earth Sciences, Inc.	X
MW-24	MW-24	Near Vicinity	Right of Way – East of SR 99	1999	Monitoring Well	Associated Earth Sciences, Inc.	X
MW-25	MW-25	Perimeter	Right of Way – SR 99/5th Ave. S.	2006	Monitoring Well	Aspect Consulting	X
MW-26	MW-26	Near Vicinity	Right of Way – East of SR99	2006	Monitoring Well	Aspect Consulting	X
MW-27	MW-27	Near Vicinity	East of SR 99	2006	Monitoring Well	Aspect Consulting	X
MW-29	MW-29	Perimeter	Right of Way – Occidental Ave. S.	2011	Monitoring Well	Aspect Consulting	X
MW-30	MW-30	Near Vicinity	Right of Way – SR 99/S. Kenyon St.	2011	Monitoring Well	Aspect Consulting	X
MW-31	MW-31	Near Vicinity	Right of Way – SR 99/S. Kenyon St.	2011	Monitoring Well	Aspect Consulting	X
MW-32	MW-32	On-site	SRDS	2011	Monitoring Well	Aspect Consulting	X
MW-33	MW-33	On-site	SRDS	2011	Monitoring Well	Aspect Consulting	X
OG-A	OG-A	On-site	SRDS		Reconnaissance Gas Probe	Public Health – Seattle & King County	
OG-B	OG-B	On-site	SRDS		Reconnaissance Gas Probe	Public Health – Seattle & King County	
OG-C	OG-C	On-site	SRDS		Reconnaissance Gas Probe	Public Health – Seattle & King County	
PZ-01	PZ-1	Perimeter	Right of Way – Occidental Ave. S.	2008	Piezometer	Farallon Consulting, LLC	X
PZ-02	PZ-2	On-site	SPPD	2008	Piezometer	Farallon Consulting, LLC	X
PZ-03	PZ-3	On-site	SPPD	2008	Piezometer	Farallon Consulting, LLC	X
RB-09	B-9	Perimeter	Right of Way – 5th Ave. S.	1991	Soil Boring	RZA-AGRA, Inc.	X
RB-10	B-10	Perimeter	Right of Way – 5th Ave. S.	1991	Soil Boring	RZA-AGRA, Inc.	X
RB-11	B-11	Near Vicinity	S. Kenyon Street	1991	Soil Boring	RZA-AGRA, Inc.	X
RB-12	B-12	Near Vicinity	S. Kenyon Street	1991	Soil Boring	RZA-AGRA, Inc.	X
RB-13	B-13	Near Vicinity	S. Kenyon Street	1991	Soil Boring	RZA-AGRA, Inc.	X
RMW-01	MW-1	Near Vicinity	Right of Way – S. Sullivan St.	1991	Monitoring Well	RZA-AGRA, Inc.	X
RMW-02	MW-2	Perimeter	Right of Way – 5th Ave. S.	1991	Monitoring Well	RZA-AGRA, Inc.	X
RMW-03	MW-3	Perimeter	Right of Way – 5th Ave. S.	1991	Monitoring Well	RZA-AGRA, Inc.	X
RMW-04	MW-4	On-site	SPPD	1991	Monitoring Well	RZA-AGRA, Inc.	X
RMW-05	MW-5	On-site	SPPD	1991	Monitoring Well	RZA-AGRA, Inc.	X
RMW-06	MW-6	On-site	SPPD	1991	Monitoring Well	RZA-AGRA, Inc.	X
RMW-07	MW-7	On-site	SPPD	1991	Monitoring Well	RZA-AGRA, Inc.	X
RMW-08	MW-8	On-site	SPPD	1991	Monitoring Well	RZA-AGRA, Inc.	X
RP-01	RP-01	Perimeter	Right of Way – Occidental Ave. S.	2011	Soil Probe	Aspect Consulting	X
RP-02	RP-02	Perimeter	Right of Way – Occidental Ave. S.	2011	Soil Probe	Aspect Consulting	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
RP-03	RP-03	Perimeter	Right of Way – Occidental Ave. S.	2011	Soil Probe	Aspect Consulting	X
RP-04	RP-04	Perimeter	Right of Way – Occidental Ave. S.	2011	Soil Probe	Aspect Consulting	X
RP-05	RP-05	Perimeter	Right of Way – Occidental Ave. S.	2011	Soil Probe	Aspect Consulting	X
RP-06	RP-06	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	X
RP-07	RP-07	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	X
RP-08	RP-08	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	X
RP-09	RP-09	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	X
RP-10	RP-10	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	X
RP-11	RP-11	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	X
RP-12	RP-12	Perimeter	Right of Way – Occidental Ave. S.	2011	Soil Probe	Aspect Consulting	X
SA-A	SA-A	Near Vicinity	Razore Enterprises/Ness Crane		Surface Soil	Public Health – Seattle & King County	
SA-B	SA-B	On-site	SRDS		Surface Soil	Public Health – Seattle & King County	
SA-C	SA-C	On-site	SRDS		Surface Soil	Public Health – Seattle & King County	
SA-D	SA-D	On-site	SRDS		Surface Soil	Public Health – Seattle & King County	
SA-E	SA-E	On-site	2nd Ave. S.		Surface Soil	Public Health – Seattle & King County	
SA-F	SA-F	On-site	SRDS		Surface Soil	Public Health – Seattle & King County	
SA-G	SA-G	On-site	SRDS		Surface Soil	Public Health – Seattle & King County	
SB-26	SB-26	On-site	SPPD	2000	Soil Boring	Associated Earth Sciences, Inc.	X
SB-27	SB-27	On-site	SPPD	2000	Soil Boring	Associated Earth Sciences, Inc.	X
SP	SP	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
SE	SE	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
SW	SW	On-site	SPPD		Surface Water	Public Health – Seattle & King County	

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
SN	SN	Perimeter	SPPD		Surface Water	Public Health – Seattle & King County	
SW-01	SW-1	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
SW-02	SW-2	Perimeter	SPPD		Surface Water	Public Health – Seattle & King County	
SW-03	SW-3	Perimeter	SPPD		Surface Water	Public Health – Seattle & King County	
SW-04	SW-4	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
SW-05	SW-5	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
SW-06	SW-6	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
SS-01A	SS-01	Perimeter	SPPD	2010	Sediment	Aspect Consulting	X
SS-02A	SS-02	Perimeter	SPPD	2010	Sediment	Aspect Consulting	X
SS-03A	SS-03	Perimeter	SPPD	2010	Sediment	Aspect Consulting	X
SS-P	SS-P	Perimeter	SPPD	2010	Sediment	Aspect Consulting	
SS-01	SS-1	On-site	SPPD		Surface Soil	Public Health – Seattle & King County	
SS-02	SS-2	Perimeter	SPPD		Surface Soil	Public Health – Seattle & King County	
SS-03	SS-3	Perimeter	SPPD		Surface Soil	Public Health – Seattle & King County	
SS-04	SS-4	On-site	SPPD		Surface Soil	Public Health – Seattle & King County	
SS-05	SS-5	On-site	SPPD		Surface Soil	Public Health – Seattle & King County	
SS-06	SS-6	On-site	SPPD		Surface Soil	Public Health – Seattle & King County	
TB-01	Boring 1	On-site	SRDS	1965	Soil Boring	Unknown	X
TB-02	Boring 2	On-site	SRDS	1965	Soil Boring	Unknown	X
TB-03	Boring 3	On-site	SRDS	1965	Soil Boring	Unknown	X
TB-04	Boring 4	On-site	SRDS	1965	Soil Boring	Unknown	X
TB-05	Boring 5	On-site	SRDS	1965	Soil Boring	Unknown	X
TB-06	Boring 6	On-site	SRDS	1965	Soil Boring	Unknown	X
TB-07B	TB-1 (2-17-89)	On-site	SRDS	1989	Piezometer	City of Seattle - Materials Laboratory	X
TB-07C	TB-1 (9-26-89)	On-site	SRDS	1989	Piezometer	City of Seattle - Materials Laboratory	X
TB-08A	TB-2 (12-22-88)	On-site	SRDS		Piezometer	City of Seattle - Materials Laboratory	
TB-08B	TB-2 (12-23-88)	On-site	KIP		Piezometer	City of Seattle - Materials Laboratory	X
TB-08C	TB-2 (9-26-89)	On-site	SRDS		Piezometer	City of Seattle - Materials Laboratory	

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
TB-09A	TB-3	On-site	SRDS		Piezometer	City of Seattle - Materials Laboratory	
TB-09B	TB-3 (12-27-89)	On-site	SRDS	1988	Piezometer	City of Seattle - Materials Laboratory	X
TB-10	TB4	On-site	SRDS	1988	Piezometer	City of Seattle - Materials Laboratory	X
TB-11	TB5	On-site	SRDS	1988	Piezometer	City of Seattle - Materials Laboratory	X
TB-12A	TB6	On-site	SRDS	1988	Piezometer	City of Seattle - Materials Laboratory	X
TB-12B	TB6	On-site	SRDS		Piezometer	City of Seattle - Materials Laboratory	
TB-13	TB7	On-site	SRDS	1989	Piezometer	City of Seattle - Materials Laboratory	X
TB-14	TB8	On-site	KIP	1989	Piezometer	City of Seattle - Materials Laboratory	X
TB-15	TB9	Perimeter	KIP	1989	Piezometer	City of Seattle - Materials Laboratory	X
TB-16	TB10	On-site	SRDS	1989	Piezometer	City of Seattle - Materials Laboratory	X
TB-17	TB11	On-site	SRDS	1989	Piezometer	City of Seattle - Materials Laboratory	X
TB-18	TB12	On-site	Right of Way – 2nd Ave. S.	1973	Piezometer	City of Seattle - Materials Laboratory	X
TB-19	TB13	On-site	SRDS	1992	Piezometer	City of Seattle - Materials Laboratory	X
TB-20	TB14	On-site	SRDS	1992	Piezometer	City of Seattle - Materials Laboratory	X
TP-01	TP-1	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-02	TP-2	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-03	TP-3	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-04	TP-4	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-05	TP-5	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-06	TP-6	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-07	TP-7	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-08	TP-8	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
TP-09	TP-9	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-10	TP-10	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-11	TP-11	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-12	TP-12	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-13	TP-13	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-14	TP-14	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	X
TP-15	TP-15	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-16	TP-16	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-17	TP-17	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-18	TP-18	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-19	TP-19	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-20	TP-20	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-21	TP-21	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-22	TP-22	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-23	TP-23	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-24	TP-24	On-site	SPPD		Test Pit	Olympus Environmental, Inc.	
TP-25	TP-25	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-26	TP-26	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-27	TP-27	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-28	TP-28	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-29	TP-29	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-30	TP-30	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-31	TP-31	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-32	TP-32	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-33	TP-33	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-34	TP-34	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-35	TP-35	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-36	TP-36	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
TP-37	TP-37	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-38	TP-38	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-39	TP-39	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-40	TP-40	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-41	TP-41	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-42	TP-42	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-43	TP-43	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-44	TP-44	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-45	TP-45	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-46	TP-46	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-47	TP-47	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-48	TP-48	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-49	TP-49	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-50	TP-50	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-51	TP-51	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-52	TP-52	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-53	TP-53	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-54	TP-54	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-55	TP-55	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-56	TP-56	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-57	TP-57	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-58	TP-58	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-59	TP-59	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-60	TP-60	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-61	TP-61	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-62	TP-62	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-63	TP-63	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-64	TP-64	Perimeter	Right of Way – Occidental Ave. S.	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-65	TP-65	Perimeter	Right of Way – Occidental Ave. S.	1998	Test Pit	Associated Earth Sciences, Inc.	X
TP-66	TP-66	Near Vicinity	Vacant Lot/ S. Cloverdale St.	1998	Test Pit	Associated Earth Sciences, Inc.	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
TP-67	TP-67	Near Vicinity	Emerson Power Products	1998	Test Pit	Associated Earth Sciences, Inc.	X
7-4641	7-4641	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4600	7-4600	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4545	7-4545	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
W-01	W-1	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
W-02	W-2	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
W-03	W-3	On-site	SPPD		Surface Water	Public Health – Seattle & King County	
W-04	W-4	Near Vicinity	KIP		Surface Water	Public Health – Seattle & King County	
7-2625	7-2625	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-2700	7-2700	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-2750	7-2750	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-2800	7-2800	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-2844	7-2844	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-2883	7-2883	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-2950	7-2950	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3000	7-3000	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3050	7-3050	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3100	7-3100	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3150	7-3150	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3200	7-3200	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3250	7-3250	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3300	7-3300	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3350	7-3350	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3450	7-3450	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3497	7-3497	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3500	7-3500	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3503	7-3503	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3546	7-3546	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3550	7-3550	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X

Current Location ID	Original Location ID	Location	Parcel	Date	Location Type	Installed or Reported By	Well Log
7-3597	7-3597	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3600	7-3600	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3647	7-3647	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3650	7-3650	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3700	7-3700	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3760	7-3760	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3803	7-3803	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3850	7-3850	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3900	7-3900	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-3950	7-3950	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4000	7-4000	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4037	7-4037	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4095	7-4095	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4150	7-4150	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4250	7-4250	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4300	7-4300	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4350	7-4350	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4400	7-4400	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4450	7-4450	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X
7-4500	7-4500	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	X

Notes:

-- No additional information.

Previous investigation locations are shown on Figure B-1.

“Perimeter” refers to locations on or within 25 feet of the landfill boundary as shown on Figure B-1.

“Near Vicinity” refers to locations outside the landfill boundary but within the study area.

“On-site” refers to locations within the landfill boundary as shown on Figure B-1.

Abbreviations:

- GW Groundwater
- KIP Kenyon Industrial Park
- ND No Known Date
- ROW Right-of-way, usually belonging to a city street or state highway
- SPPD South Park Property Development, LLC
- SR State Route
- SRDS Seattle Recycling and Disposal Station (City Parcel)

Table B.2
Well Completion Summary for RI/FS Groundwater Monitoring

Monitoring Well	Unit of Completion	Installation Date	Coordinates		Ground Surface Elevation ² (NAVD 88)	Monitoring Well Casing Elevations ² (NAVD 88)	Well Casing Stickup Relative to Ground Surface (ft)	Total Boring Depth (ft bgs)	Total Well Depth (ft bgs)	Screened Depth (ft bgs)	Geologic Matter at Screened Interval
			Northing ¹ (NAD83)	Easting ¹ (NAD83)							
Monitoring Wells											
KMW-01A	Perched and Upper Zone of Shallow Aquifer	10/20/1995	197146.92	1269960.23	-	18.03	-	21.50	21.00	5.0 to 21.0	Silt and Sand with Organics Material
KMW-03A		10/20/1995	197585.09	1270170.48	-	18.62	-	24.00	24.00	9.0 to 24.0	Wood, Sand, Silt
KMW-04		3/11/1992	197374.76	1270149.88	-	19.71	-	21.00	20.00	5.0 to 20.0	Debris, Silty Clay, Sandy Silt
KMW-05		3/12/1992	197427.44	1269861.86	-	15.79	-	21.00	20.00	5.0 to 20.0	Sandy Silt, Silty Clay, Silty Sand
KMW-06		3/12/1992	197637.24	1269878.36	-	17.77	-	21.00	20.00	5.0 to 20.0	Sandy Gravel, Silty Sand
KMW-07		3/12/1992	197626.24	1269684.96	-	19.64	-	20.00	20.00	5.0 to 20.0	Gravelly Sand, Silty Sand
KMW-08		3/12/1992	197356.14	1269692.89	-	19.76	-	21.00	20.00	5.0 to 20.0	Sand, Silty Clay
MW-01		Upper Zone of Shallow Aquifer	10/9/1991	196235.09	1269862.09	19.75	19.61	-0.14	13.50	13.00	3.0 to 13.0
MW-02	Upper Zone of Shallow Aquifer	10/9/1991			99.59	99.23	-0.36	13.50	13.00	3.0 to 13.0	Silt and Sand with Organic Matter
MW-03	Upper Zone of Shallow Aquifer	10/9/1991	196657.79	1269868.34	18.94	18.78	-0.16	13.50	13.00	2.0 to 13.0	Silt with Organic Matter, Sand
MW-04	Lower Zone of Shallow Aquifer	12/2/1998	195985.22	1270372.47	20.15	21.98	1.83	50.59	50.59	40.6 to 50.6	Sand with Interbedded Silt Laminae, Silty Sand
MW-06	Lower Zone of Shallow Aquifer	12/3/1998	195677.21	1271027.45	17.35	18.76	1.41	50.00	40.00	30.0 to 40.0	Sand with Interbedded Silt Laminae
MW-08	Lower Zone of Shallow Aquifer	12/7/1998	196834.57	1271362.27	12.88	14.76	1.88	49.00	45.59	35.6 to 45.6	Sand, Silty Sand
MW-10	Lower Zone of Shallow Aquifer	12/9/1998	197659.19	1270559.83	17.70	19.35	1.65	49.00	45.00	35.0 to 45.0	Sand with Interbedded Silt Laminae
MW-12	Upper Zone of Shallow Aquifer	9/20/1999	196964.43	1269792.64	19.11	20.63	1.52	22.50	15.30	10.0 to 15.0	Sand with Silty Interbeds
MW-14	Upper Zone of Shallow Aquifer	9/14/1999	196399.9	1269963.7	19.05	19.85	0.80	34.00	21.80	11.5 to 21.5	Sand with Silt Interbeds, Silt with Trace Sand Laminae

Table B.2
Well Completion Summary for RI/FS Groundwater Monitoring

Monitoring Well	Unit of Completion	Installation Date	Coordinates		Ground Surface Elevation ² (NAVD 88)	Monitoring Well Casing Elevations ² (NAVD 88)	Well Casing Stickup Relative to Ground Surface (ft)	Total Boring Depth (ft bgs)	Total Well Depth (ft bgs)	Screened Depth (ft bgs)	Geologic Matter at Screened Interval
			Northing ¹ (NAD83)	Easting ¹ (NAD83)							
Monitoring Wells (continued)											
MW-18	Lower Zone of Shallow Aquifer	9/17/1999	196350.26	1271077.67	20.78	22.03	1.25	49.00	40.40	30.0 to 40.0	Sand
MW-24	Lower Zone of Shallow Aquifer	9/21/1999	197110.02	1271165.6	13.57	15.13	1.56	49.00	45.30	35.0 to 45.0	Sand, some Organic Silt Interbeds, Silt with Sand
MW-25	Upper Zone of Shallow Aquifer	2/23/2006	197657.49	1270566.75	17.30	20.09	2.79	28.00	27.00	22.0 to 27.0	Slightly Silty Sand
MW-26	Upper Zone of Shallow Aquifer	2/23/2006	197121.60	1271164.40	13.55	15.94	2.39	26.00	25.00	15.0 to 25.0	Sand
MW-27	Upper Zone of Shallow Aquifer	2/23/2006	196835.06	1271357.64	12.72	14.76	2.04	21.00	20.00	10.0 to 20.0	Silty Sand
MW-29	Upper Zone of Shallow Aquifer	1/14/2011	196034.29	1270270.91	19.45	19.16	-0.29	30.00	30.00	20.0 to 30.0	Very Silty Sand, Sand
MW-30	Perched Zone	6/15/2011	197655.77	1270826.64	17.60	17.07	-0.53	16.50	13.00	8.0 to 13.0	Slightly Silty Sand, Sand
MW-31	Upper Zone of Shallow Aquifer	6/15/2011	197660.37	1270825.71	17.58	17.12	-0.46	26.00	23.00	18.0 to 23.0	Sand
MW-32	Upper Zone of Shallow Aquifer	6/29/2011	197416.52	1270622.16	17.51	17.07	-0.44	24.00	24.00	19.0 to 24.0	Sand
MW-33	Upper Zone of Shallow Aquifer	6/29/2011	197257.91	1270751.02	17.81	17.34	-0.47	25.00	25.00	20.0 to 25.0	Sand
Reconnaissance Borings with Groundwater Samples											
FB-07	Upper Zone of Shallow Aquifer	3/7/2011	197152.10	1269641.00	18.55	NA	NA	15.00	10.00	5.0 to 10.0	Sand, Silty Sand
FB-08	Upper Zone of Shallow Aquifer	3/7/2011	197072.10	1269647.00	18.96	NA	NA	15.00	13.00	8.0 to 13.0	Sand
FB-09	Upper Zone of Shallow Aquifer	3/7/2011	196976.10	1269655.00	18.29	NA	NA	15.00	14.00	9.0 to 14.0	Sand
FB-10	Upper Zone of Shallow Aquifer	3/7/2011	196909.10	1269663.00	18.44	NA	NA	15.00	14.00	9.0 to 14.0	Sand
FB-11	Upper Zone of Shallow Aquifer	3/7/2011	196812.10	1269673.00	18.47	NA	NA	15.00	15.00	10.0 to 15.0	Sand

Table B.2
Well Completion Summary for RI/FS Groundwater Monitoring

Monitoring Well	Unit of Completion	Installation Date	Coordinates		Ground Surface Elevation ² (NAVD 88)	Monitoring Well Casing Elevations ² (NAVD 88)	Well Casing Stickup Relative to Ground Surface (ft)	Total Boring Depth (ft bgs)	Total Well Depth (ft bgs)	Screened Depth (ft bgs)	Geologic Matter at Screened Interval
			Northing ¹ (NAD83)	Easting ¹ (NAD83)							
Reconnaissance Borings (continued)											
FB-12	Upper Zone of Shallow Aquifer	3/8/2011	196592.10	1271161.00	20.35	NA	NA	15.00	15.00	10.0 to 15.0	Silty Sand, Sand
FB-13	Upper Zone of Shallow Aquifer	3/8/2011	196720.10	1271165.00	20.47	NA	NA	20.00	20.00	15.0 to 20.0	Sand
FB-14	Upper/Lower Zone of Shallow Aquifer	3/11/2011	197654.10	1270808.00	16.86	NA	NA	40.00	13.00 22.00 40.00	8.0 to 13.0 17.0 to 22.0 36.0 to 40.0	Sand, Clayey Silt Sand Sand

Notes:

- No information available or not applicable.
- 1 Surveyed location; horizontal datum is Washington State Plane North NAD 83/91.
- 2 Surveyed elevations except for the reconnaissance borings, which are LIDAR elevations; datum is NAVD 88.

Abbreviations:

- bgs Below ground surface
- ft Feet
- GW Groundwater
- LIDAR Light Detection and Ranging Technology
- NA Not applicable
- NAD83 North American Datum of 1983
- NAVD 88 North American Vertical Datum of 1988
- RI/FS Remedial Investigation/Feasibility Study

Table B.3
Soil Gas Monitoring Probe Completion Summary for RI/FS Soil Gas Monitoring and Sampling Locations

Gas Probe	Installation Date	Coordinates ¹		Ground Surface Elevation (NAVD 88) ¹	Probe Casing Elevation (NAVD 88)	Probe Casing Stickup Relative to Ground Surface (ft)	Total Boring Depth (ft bgs)	Total Probe Depth (ft bgs)	Screened Depth (ft bgs)	Geologic Material at Screened Interval
		Northing (NAD83)	Easting (NAD83)							
GP-01	4/1/1997	196283.02	1270831.17	28.26	28.26	-0.64	15.00	15.00	5.0 to 15.0	Refuse with Sandy Silt
GP-02	4/1/1997	196783.80	1270210.66	25.11	25.11	-0.52	14.00	14.00	4.0 to 14.0	Refuse with Sandy Silt
GP-03	12/3/1998	195984.33	1270376.89	20.15	22.60	1.63	7.00	7.00	5.1 to 7.0	Sand
GP-05	12/4/1998	195672.72	1271027.76	17.35	19.36	1.20	7.00	7.00	5.0 to 7.0	Silt
GP-07	12/8/1998	196834.05	1271364.74	12.88	15.38	1.75	4.50	4.50	4.0 to 4.5	Silty Sandy Gravel
GP-09	12/10/1998	197658.38	1270561.95	17.70	19.97	1.62	9.00	9.00	5.0 to 9.0	Sand, Silt
GP-11	9/20/1999	196967.65	1269791.62	19.09	20.32	1.23	6.00	5.80	5.0 to 5.5	Sand with Silty Interbeds
GP-13	9/14/1999	196404.53	1269962.03	19.09	20.00	0.91	4.50	4.50	4.0 to 4.5	Sand with Silt and Gravel
GP-15	9/13/1999	195947.82	1270917.23	12.72	15.07	1.62	7.00	6.70	5.0 to 7.0	Sand
GP-16	9/14/1999	196079.63	1271070.11	19.93	21.53	1.60	9.00	7.40	5.0 to 7.4	Sand, Few Silts
GP-17	9/13/1999	196339.21	1271078.31	21.11	22.90	1.79	14.00	10.35	5.0 to 10.0	Sand with Gravel, Gravel with Sand
GP-19	9/15/1999	196683.95	1270920.57	24.16	26.44	1.70	16.50	12.30	7.0 to 12.0	Refuse with Sand with Gravel
GP-20	9/16/1999	196680.15	1270575.25	26.37	28.39	1.57	21.50	13.30	5.0 to 13.0	Refuse with Sand, Little Gravel
GP-21	9/15/1999	196981.38	1270271.02	23.37	25.39	1.42	16.50	13.30	8.0 to 13.0	Refuse with Sand with gravel and silt
GP-22	9/16/1999	197076.30	1270084.73	21.94	24.02	1.53	16.50	11.30	6.0 to 11.0	Refuse with Sand with gravel and silt
GP-23	9/20/1999	197115.05	1271165.75	10.51	11.56	1.05	6.50	6.30	5.0 to 6.0	Sand
GP-24	1/18/2011	197565.24	1269840.44	15.54	15.05	-0.49	10.00	10.00	5.0 to 10.0	CKD, and Sandy Silt with Fill
GP-25	1/18/2011	197328.66	1269867.64	16.77	16.46	-0.31	10.00	10.00	5.0 to 10.0	CKD, Sand with Fill and Silt
GP-26	3/8/2011	197371.54	1270976.98	16.10	15.72	-0.38	10.00	10.00	5.0 to 10.0	Gravelly Silt and Sand
GP-27	1/18/2011	196613.79	1271151.08	20.32	19.89	-0.43	14.00	14.00	9.0 to 14.0	Refuse, Sand, and Silt
GP-28	1/17/2011	196390.24	1271150.13	20.46	20.05	-0.41	12.00	12.00	7.0 to 12.0	CKD, Silt with Fill, and Sand
GP-29	1/17/2011	196208.61	1271139.47	18.23	17.85	-0.38	10.00	10.00	5.0 to 10.0	Refuse, Sand
GP-30	1/17/2011	195953.52	1271070.74	13.35	13.02	-0.33	10.00	10.00	5.0 to 10.0	Sand and Clayey Silt
GP-31	1/17/2011	195957.16	1271151.30	14.29	13.93	-0.36	10.00	10.00	5.0 to 10.0	Sand, Silt, and Gravel (Fill)
GP-32	12/29/2010	195902.05	1270623.94	13.22	12.94	-0.28	10.00	10.00	5.0 to 10.0	Organic Silt, Wood, and Refuse
GP-33	5/15/13					3.20	15.00	10.00	5.0 to 10.0	Silty Sand, Silt, and Sandy SILT
GP-34	5/15/13					3.60	15.00	13.50	8.5 to 13.5	Sandy Silt, Wood, Refuse, Concrete Fill, and Silty Sand
GP-35	5/15/13					4.00	20.00	15.00	10.0 to 15.0	Silty Sand, Gravel, and Refuse
GP-36	5/15/13					4.00	20.00	15.00	10.0 to 15.0	No recovery
GP-37	10/14/15					-0.30	10.00	8.10	3.1 to 8.1	Sand, Gravel, and Silty Clay
GP-38	9/29/15					-0.40	15.00	9.20	4.2 to 9.2	Sand and Sandy Silt
GP-39	9/14/2016					-0.50	15.00	12.30	5.0 to 12.3	CKD and Sandy Gravel
GP-40	9/14/2016					-0.58	9.00	8.60	1.3 to 8.6	Silty Sand, CKD, Sand, and Clayey Silt
GP-41	9/14/2016					-0.55	10.00	9.60	2.3 to 9.6	CKD and Silty Sand
GP-42	9/14/2016					-0.55	13.00	11.50	4.2 to 11.5	Sand, Silty Sand, CKD, Sandy Silt, Sand, and Clayey Silt

Table B.3
Soil Gas Monitoring Probe Completion Summary for RI/FS Soil Gas Monitoring and Sampling Locations

Gas Probe	Installation Date	Coordinates ¹		Ground Surface Elevation (NAVD 88) ¹	Probe Casing Elevation (NAVD 88)	Probe Casing Stickup Relative to Ground Surface (ft)	Total Boring Depth (ft bgs)	Total Probe Depth (ft bgs)	Screened Depth (ft bgs)	Geologic Material at Screened Interval
		Northing (NAD83)	Easting (NAD83)							
GP-43	9/14/2016					-0.50	10.00	9.90	2.6 to 9.9	Silt, CKD, Silty Sand, Clayey Silt, Sandy Silt, and Clayey Silt
TGP-1	9/29/2015	197639.4	1269877				10.00	10.00		
TGP-2	9/29/2015	197638.8	1269852				10.00	10.00		
TGP-3	9/29/2015	197641.7	1269821				10.00	10.00		
TGP-4	9/29/2015	197646	1269784				10.00	10.00		
TGP-5	9/29/2015	197517.5	1269902				10.00	10.00		
TGP-6	9/29/2015	197518.4	1269868				10.00	10.00		
TGP-7	10/13/2015	197517.7	1269885				10.00	10.00		
TGP-8	10/13/2015	197521.3	1269831				12.00	12.00		
TGP-9	10/13/2015	197374.5	1269942				8.00	8.00		
TGP-10	10/13/2015	197373.9	1269959				10.00	10.00		
TGP-11	10/13/2015	197376.3	1269916				12.00	12.00		
TGP-12	10/13/2015	197377.5	1269874				10.00	10.00		
TGP-13	10/13/2015	197379.1	1269824				8.00	8.00		
TGP-14	10/14/2015	197308.5	1269934				10.00	10.00		
TGP-15	10/14/2015	197314.3	1269949				10.00	10.00		
TGP-16	10/14/2015	197306.3	1269899				10.00	10.00		
TGP-17	10/14/2015	197307.9	1269863				10.00	10.00		
TGP-18	10/14/2015	197240	1269935				10.00	10.00		
TGP-19	10/14/2015	197241.4	1269904				10.00	10.00		
TGP-20	10/14/2015	197244.3	1269864				10.00	10.00		
TGP-21	10/14/2015	197244.2	1269819				10.00	10.00		
TGP-22	10/14/2015	197311.6	1269828				5.00	5.00		
TGP-23	10/14/2015	197374.8	1270049				15.00	15.00		
TGP-24	10/14/2015	197295.7	1270060				10.00	10.00		
TGP-25	10/14/2015	197221.1	1270061				10.00	10.00		

Note:

- 1 Horizontal datum is Washington State Plane North NAD83. Elevation datum is NAVD 88.

Abbreviations:

- bgs Below ground surface
- CDK Cement kiln dust
- ft Feet
- NAD83 North American Datum of 1983
- NAVD 88 North American Vertical Datum of 1988
- RI/FS Remedial Investigation/Feasibility Study

**Table B.4
Indoor Air Monitoring Locations—Kenyon Industrial Park**

Building Address	Monitoring Location	Description of Monitoring Location	Description and Condition of Building Foundation
Building A			
7900 Occidental Avenue South	1, 3, 5, 6, 7, 8, 10	Construction joint	Warehouse concrete slab on grade
	2, 4, 9	Cracks in slab	Good condition—several floor cracks less than one-eighth inch wide Finished concrete slab Office and kitchen space vinyl tiles
7910 Occidental Avenue South	1	Restroom	Finished concrete slab Restroom—no floor drain Warehouse concrete slab on grade Good condition—several floor cracks less than one-eighth-inch wide Finished concrete slab
	2	Office carpet	
	3, 4, 7, 8, 9	Construction joint	
	5	2-inch construction joint, filled	
	6	Open 1-inch joint	
	10	Crack (slab/ramp 8 percent joint)	
	11	Crack	
7920, 7930, and 7934 Occidental Avenue South	1,2	Office carpet	Finished concrete slab Restroom—no floor drain Office spaces—carpet and vinyl Warehouse exposed slab on grade
	3, 6, 7, 9, 11, 12, 13, 14, 16	Construction joint	
	4, 5, 10, 19	Crack	
	8	2-inch joint, filled	
	15	2-inch construction joint filled	
	17	Containment area construction joint	
	18	Column at floor—settlement cracked and spilled	
	20	2-inch construction joint filled with concrete	
	21	Floor carpet	

**Table B.4
Indoor Air Monitoring Locations—Kenyon Industrial Park**

Building Address	Monitoring Location	Description of Monitoring Location	Description and Condition of Building Foundation
Building A (continued)			
7936 Occidental Avenue South	1	Office carpet, new	Warehouse concrete slab on grade
	2	Office floor	Good condition—one floor crack less than one-eighth inch wide
	3, 4, 5, 6, 8	Construction joint	
	7	Crack	Finished concrete slab
Building B			
121 and 123 South Kenyon Street	1	Door crack at foundation/slab	Warehouse concrete slab on grade Fair condition—several floor cracks less than one-eighth inch wide Finished concrete slab Restroom—no floor drain 123—Elevated slab west loading dock
	2, 4, 7, 8, 9, 11, 12, 14, 16, 17, 18, 19	Construction joints	
	3	Crack in slab at roll up door	
	5	Slab crack	
	6	Slab crack/construction joint	
	10	Crack	
	13	4-inch diameter pipe/slab	
	15	Floor drains (3)	
125 South Kenyon Street	1	Office space carpet over concrete	Warehouse concrete slab on grade
	2	Restrooms, vinyl—open area	Good condition—several floor cracks less than one-eighth inch wide
	3, 5, 6, 10, 11, 12, 13	Construction joint	
	4, 7, 8, 9	Crack	Finished concrete slab
	6	Construction joint	Office and kitchen space vinyl tiles

**Table B.4
Indoor Air Monitoring Locations—Kenyon Industrial Park**

Building Address	Monitoring Location	Description of Monitoring Location	Description and Condition of Building Foundation
Building B (continued)			
127 South Kenyon Street	1, 10, 11	Crack	Warehouse concrete slab on grade Good condition—several floor cracks less than one-eighth inch wide
	2, 3, 4, 6, 7, 9	Construction joint	
	5	Restroom	Finished concrete slab
	8	Construction joint/crack	
129 South Kenyon Street	1	Office floor tile	Office—tiles Warehouse—concrete
	2, 4, 5, 7, 8, 10	Construction joint	
	3	Large crack	
	6	Restroom vinyl	
	9	10-inch diameter fire penetration through slab	
	11	Office floor tiles	
Building C			
7937 Second Avenue South	1	Building floor	Office—office tiles Warehouse—slab on grade Restroom—vented Freezer—vented
	2	Construction joint	
	3, 4, 8, 10	Trench drain	
	5, 6, 7	Freezer—construction joint	
	9	Drain slab pen	
7925 Second Avenue South	1, 2	Office space—tiled	Warehouse concrete slab on grade Fair condition—several floor cracks less than one-eighth inch wide Finished concrete slab
	3	Warehouse concrete—crack	
	4	Crack	
	5, 7	Construction joint	
	6	Construction joint slab ramp	

**Table B.4
Indoor Air Monitoring Locations—Kenyon Industrial Park**

Building Address	Monitoring Location	Description of Monitoring Location	Description and Condition of Building Foundation
Building C (continued)			
7929 Second Avenue South	1, 2, 3, 4, 5, 6, 7	Construction joint	Warehouse concrete slab on grade Fair condition—several floor cracks less than one-eighth inch wide Finished concrete slab
Building D			
7951 and 7952 Second Avenue South	1	Carpet over concrete—open area	Warehouse concrete slab on grade Good condition—several floor cracks less than one-eighth inch wide Finished concrete slab
	2, 3	Restroom vinyl	
	4, 5, 6, 7, 13, 15	Construction joint	
	8, 11, 12, 16	Crack	
	9	Bath floor drain	
	10	Cracks, along wall footing	
	14	Construction joint—half way in building	
	17	Large cracks	

**Table B.4
Indoor Air Monitoring Locations—Kenyon Industrial Park**

Building Address	Monitoring Location	Description of Monitoring Location	Description and Condition of Building Foundation
Building D (continued)			
7953 Second Avenue South	1, 5, 8, 13	Construction joint	Warehouse concrete slab on grade Fair condition—numerous floor cracks one-eighth inch to one-fourth inch wide Finished concrete slab
	2	Crack	
	3	Exterior foundation to ACP	
	4	Crack	
	6	Construction joint/cracks	
	7	Exterior foundation to ACP	
	9	Foundation to ACP	
	10, 11, 12, 14	Crack	
	15	Restroom	
	16	Broom closet	
	17	Office	
Building 7901			
7901 Second Avenue South	1	Slab on grade—printed	Warehouse concrete slab on grade Good condition—several floor cracks less than one-eighth inch wide Finished concrete slab Office and kitchen space vinyl tiles
	2	Kitchen—vinyl	
	3,4	Construction joint	
	5, 7, 8	Crack	
	6, 9, 11	Construction joint	
	10	Construction joint/crack	
	12	Crack—settling one-fourth inch	
	13	Crack/construction joint/column	

Abbreviations:

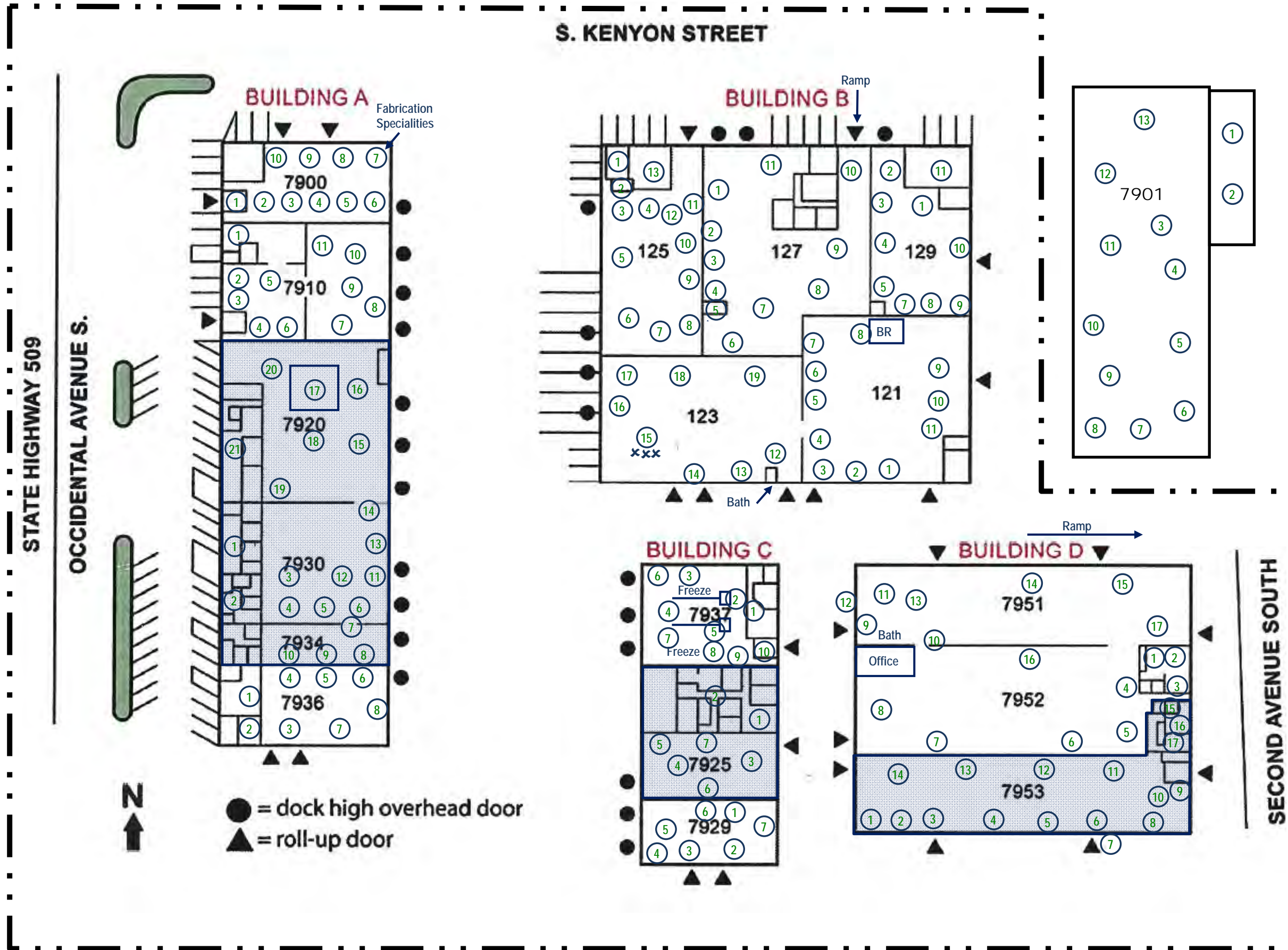
- ACP Asphalt concrete pavement
- KIP Kenyon Industrial Park

**Table B.5
Indoor Air Monitoring Locations—5th Avenue South**

Building Address	Monitoring Location	Description of Monitoring Location	Description and Condition of Building Foundation
Building 8230			
8230 5 th Avenue South (Timberwolf Company—west half of building)	1	Water main floor penetration—annular space	Warehouse concrete slab on grade Very good condition Joints are sealed and tight
	2	Natural gas penetration—wall	
	3	Rear storage room	
	4	Crack at wall column/slab interface	
	5	Rear south wall	
	6	Upstairs office—open space	
	7	Restroom floor drains—women’s	
	8	Restroom floor drains—men’s	
	9	Utility room—open area	
	10	Open warehouse	
8230 5 th Avenue South (Hudson Bay Company—east half of building)	1	Woman's restroom	Warehouse concrete slab on grade Very good condition Joints are sealed and tight
	2	Men’s restroom	
	3	Slab on grade floor crack	
	4	Floor drain	
	5	Slab on grade floor crack	
Building 8250			
8250 5 th Avenue South (Coast Crane Company)	1	Restroom space	Warehouse concrete slab on grade Very good condition Joints are sealed and tight
	2	Slab on grade construction joint	
	3	Floor drain	
	4	Water meter vault	
	5	Restroom space—east	
	6	Office space	
	7	Skirted crawl space—elevated building	
	8	Interior—open area	
	9	Methane mitigation PVC vent at roof-line	

Abbreviation:
PVC Polyvinyl chloride

Figures



South Park



Boring Logs

RI/FS Reconnaissance Groundwater Samples

Soil Classification		Terms Describing Relative Density and Consistency		
		Density	SPT ⁽²⁾ blows/foot	
Coarse-Grained Soils - More than 50% Retained on No. 200 Sieve	Gravels - More than 50% ⁽¹⁾ of Coarse Fraction Retained on No. 4 Sieve	Well-graded gravel and gravel with sand, little to no fines	Very Loose 0 to 4	
	Gravels - More than 50% ⁽¹⁾ of Coarse Fraction Retained on No. 4 Sieve	GP	Poorly-graded gravel and gravel with sand, little to no fines	Loose 4 to 10
		GM	Silty gravel and silty gravel with sand	Medium Dense 10 to 30
	Sands - 50% ⁽¹⁾ or More of Coarse Fraction Passes No. 4 Sieve	GC	Clayey gravel and clayey gravel with sand	Dense 30 to 50
		SW	Well-graded sand and sand with gravel, little to no fines	Very Dense >50
	Fine-Grained Soils - 50% ⁽¹⁾ or More Passes No. 200 Sieve	SP	Poorly-graded sand and sand with gravel, little to no fines	Very Soft 0 to 2
SM		Silty sand and silty sand with gravel	Soft 2 to 4	
SC		Clayey sand and clayey sand with gravel	Medium Stiff 4 to 8	
Silts and Clays Liquid Limit Less than 50		ML	Silt, sandy silt, gravelly silt, silt with sand or gravel	Stiff 8 to 15
		CL	Clay of low to medium plasticity; silty, sandy, or gravelly clay, lean clay	Very Stiff 15 to 30
		OL	Organic clay or silt of low plasticity	Hard 30 to 49
Highly Organic Soils	Silts and Clays Liquid Limit 50 or More	MH	Elastic silt, clayey silt, silt with micaceous or diatomaceous fine sand or silt	
		CH	Clay of high plasticity, sandy or gravelly clay, fat clay with sand or gravel	
		OH	Organic clay or silt of medium to high plasticity	
PT	Peat, muck and other highly organic soils			

Component Definitions	
Descriptive Term	Size Range and Sieve Number
Boulders	Larger than 12"
Cobbles	3" to 12"
Gravel	3" to No. 4 (4.75 mm)
Coarse Gravel	3" to 3/4"
Fine Gravel	3/4" to No. 4 (4.75 mm)
Sand	No. 4 (4.75 mm) to No. 200 (0.075 mm)
Coarse Sand	No. 4 (4.75 mm) to No. 10 (2.00 mm)
Medium Sand	No. 10 (2.00 mm) to No. 40 (0.425 mm)
Fine Sand	No. 40 (0.425 mm) to No. 200 (0.075 mm)
Silt and Clay	Smaller than No. 200 (0.075 mm)

Estimated Percentage		Moisture Content
Percentage by Weight	Modifier	
<5	Trace	Dry - Absence of moisture, dusty, dry to the touch
5 to 15	Slightly (sandy, silty, clayey, gravelly)	Slightly Moist - Perceptible moisture
15 to 30	Sandy, silty, clayey, gravelly	Moist - Damp but no visible water
30 to 49	Very (sandy, silty, clayey, gravelly)	Very Moist - Water visible but not free draining
		Wet - Visible free water, usually from below water table

Symbols	
Sampler Type	Description
2.0" OD Split-Spoon Sampler (SPT)	Continuous Push
Bulk sample	Non-Standard Sampler
Grab Sample	3.0" OD Thin-Wall Tube Sampler (including Shelby tube)
	Portion not recovered

(1) Percentage by dry weight	(5) Combined USCS symbols used for fines between 5% and 15% as estimated in General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)
(2) (SPT) Standard Penetration Test (ASTM D-1586)	
(3) In General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)	
(4) Depth of groundwater	ATD = At time of drilling BGS = below ground surface

Classifications of soils in this report are based on visual field and/or laboratory observations, which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field or laboratory testing unless presented herein. Visual-manual and/or laboratory classification methods of ASTM D-2487 and D-2488 were used as an identification guide for the Unified Soil Classification System.

	Exploration Log Key		DATE:	PROJECT NO.
			DESIGNED BY:	
			DRAWN BY:	FIGURE NO.
			REVISED BY:	B-1



Boring Log

Project Number
100166

Boring Number
FB-07

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev ~18.55' NAVD88 (LIDAR)



Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 4.5' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/7/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0							Moist, dark brown, slightly sandy, gravelly SILT (ML); with organics and roots near surface	
		S-1		0.0			Very moist, olive gray SILT (ML); slightly mottled	
							PID 0.0 CH4 0.0 O2 20.3 CO2 0.1	
5	 Bentonite grout backfill	 S-1					Becomes wet	5
		S-2	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 5 to 10' bgs. Sample-FB07-10-030711				Wet, brown, silty SAND (SM)	
							Wet, brown SAND (SP); poorly graded fine to medium sand Iron staining PID 0.0 CH4 0.0 O2 20.3 CO2 0.1	
		S-3					Wet, gray SILT (ML); trace sand	
							Wet, black SAND (SP); fine to medium sand, visible red and white grains	
15							Bottom of boring at 15' below ground surface.	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: RRH

 No Recovery

 Static Water Level

Approved by: JJS

 Continuous Core

 Water Level (ATD)

Figure No. B-2



Boring Log

Project Number
100166

Boring Number
FB-08

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev ~18.96' NAVD88 (LIDAR)

Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 5' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/7/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0							Moist, dark brown SILT (ML); with organics and roots near surface	0
5		S-1		0.0			PID 0.0 CH4 0.0 O2 20.3 CO2 0.1	5
5	▽ 3/7/2011 Bentonite grout backfill						Becomes wet, becomes slightly mottled (olive gray)	5
10		S-2					Wet, olive gray, silty SAND (SM); trace organics	10
10			Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 8 to 13' bgs. Sample-FB08-13-030711				Wet, red and brown SAND (SP); poorly graded fine to medium sand	10
10		S-3					Sand becomes black with red and white grains	10
15							Wet, olive gray SILT (ML); abundant seashell fragments	15
15							Bottom of boring at 15' below ground surface.	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **RRH**

○ No Recovery

▽ Static Water Level

Approved by: **JJS**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **B-3**



Boring Log

Project Number
100166

Boring Number
FB-09

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev ~18.29' NAVD88 (LIDAR)


Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 5' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/7/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0							Moist, dark brown, gravelly SILT (ML); with organics and roots near surface	0
							Moist, brown, gravelly SAND (SP)	
							Very moist to wet, olive gray SILT (ML); slightly mottled	
		S-1		0.0			PID 0.0 CH4 0.1 O2 20.3 CO2 0.0	
5	 Bentonite grout backfill						Becomes wet	5
		S-2						
10			Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 9 to 14' bgs. Sample-FB09-13-030711				Wet, red-brown SAND (SP); poorly graded fine to medium sand	10
		S-3					Sand becomes black with red and white grains	
15							Bottom of boring at 15' below ground surface.	15

Sampler Type:


PID - Photoionization Detector (Headspace Measurement)

Logged by: RRH

 No Recovery

 Static Water Level

Approved by: JJS

 Continuous Core

 Water Level (ATD)

Figure No. B-4



Boring Log

Project Number
100166

Boring Number
FB-10

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev ~18.44' NAVD88 (LIDAR)

Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 3.5' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/7/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
							Moist, dark brown SILT (ML); trace gravel, with organics and roots near surface	
		S-1		0.0			Moist, brown, silty SAND (SM)	
							PID 0.0 CH4 0.1 O2 20.7 CO2 0.0	
							Wet, brown to tan SILT (ML); mottled	
5	Bentonite grout backfill						Wet, gray, slightly silty SAND (SW-SM)	5
		S-2					Thin bed volcanic ash	
							Wet, olive gray SILT (ML)	
							Wet, red-brown SAND (SP); poorly graded fine to medium sand	
10			Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 9 to 14' bgs. Sample-FB10-13-030711				Wet, black SAND (SP); poorly graded fine to medium sand, red and white grains	10
		S-3						
15							Bottom of boring at 15' below ground surface.	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **RRH**

No Recovery

Static Water Level

Approved by: **JJS**

Continuous Core

Water Level (ATD)

Figure No. **B- 5**



Boring Log

Project Number
100166

Boring Number
FB-11

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev ~18.47' NAVD88 (LIDAR)

Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 2' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/7/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0							Moist, brown SILT (ML); trace gravel, with organics and roots near surface	0
0							Moist, brown SILT (ML); slightly mottled	0
0							Becomes wet, becomes olive-gray. Trace sand	0
0							PID 0.0 CH4 0.1 O2 20.5 CO2 0.0	0
5	Bentonite grout backfill	S-1		0.0			Becomes gray, becomes sandy	5
5		S-2						5
10		S-3	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 10 to 15' bgs. Sample-FB11-13-030711. Duplicate sample collected. Sample - FB15-13-030711				Wet, red-brown SAND (SP); poorly graded fine to medium sand	10
10							Becomes black with red and white grains	10
15							Bottom of boring at 15' below ground surface.	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: RRH

○ No Recovery

▼ Static Water Level

Approved by: JJS

▮ Continuous Core

▽ Water Level (ATD)

Figure No. B-6



Boring Log

Project Number
100166

Boring Number
FB-12

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev ~20.35' NAVD88 (LIDAR)

Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 12.43' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/8/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0							Moist, brown, sandy GRAVEL (GP)	0
							Moist, black to dark brown, slightly silty, gravelly SAND (SP-SM);	
		S-1		0.0			Gravel (GP); crushed rock CH4 1.7 O2 15.5 CO2 0.7 BAL 82.8	
							Moist, gray, silty SAND (SM)	
							Moist, gray, clayey SILT (ML); trace sand layers	
5	Bentonite grout backfill							5
		S-2					Light gray, sandy GRAVEL (GP)	
							Moist, black, gravelly, silty SAND (SM); abundant bricks, charred wood, glass, concrete, metal (landfill debris)	
10								10
		S-3	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 10 to 15' bgs. Sample-FB12-14-030811	0.0			Moist to wet, dark gray to black SAND (SP); poorly graded fine to medium sand	
15							Wet, dark gray, clayey SILT (ML); abundant organics	15
							Bottom of boring at 15' below ground surface.	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: JJS

▬ Continuous Core

▽ Water Level (ATD)

Figure No. B-7



Boring Log

Project Number
100166

Boring Number
FB-13

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev ~20.47' NAVD88 (LIDAR)

Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 16.9' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/8/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0							Moist, dark brown, sandy GRAVEL (GP)	
0		S-1		0.0			Moist, dark brown to gray, gravelly, silty SAND (SM); scattered landfill debris (glass, wood)	
5	Bentonite grout backfill						PID 0.0 CH4 0.4 O2 18.4 CO2 0.6 BAL 80.5	
5							Becomes black. Abundant landfill debris (brick, wood, metal, glass)	5
10		S-2						
10							Moist to wet, black SAND (SP); poorly graded fine to medium sand	
15		S-3					PID 0.0 CH4 0.5 O2 17.5 CO2 0.9 BAL 81.2	
15							Wet, dark gray to black, sandy SILT (ML)	
15							Wet, black SAND (SP); thick, occasional beds of silty sand, occasional organics	15
20		S-4	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 15 to 20' bgs. Sample-FB13-19-030811					
20							Bottom of boring at 20' below ground surface.	20

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: JJS

▬ Continuous Core

▽ Water Level (ATD)

Figure No. B- 8



Boring Log

Project Number
100166

Boring Number
FB-14

Sheet
1 of 2

Project Name: South Park Landfill

Ground Surface Elev ~16.86' NAVD88 (LIDAR)

Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 9.0' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/11/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
		S-1		0.0			Moist, brown, slightly silty, gravelly SAND (SW-SM); fine to coarse sand PID 0.0 CH4 0.2 O2 19.7 CO2 0.1 BAL 80.0	
		S-2		0.0			Moist, brown, slightly gravelly SAND (SP); fine to medium sand Moist, brown, slightly silty, gravelly SAND (SW-SM)	5
5	Bentonite grout backfill							
		S-3	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 8 to 13' bgs. Sample-FB14-12-031111	0.0			Moist, dark brown, SAND (SP); fine to medium sand Wet, gray, clayey SILT (ML); mottled texture PID 0.0 CH4 0.1 O2 19.9 CO2 0.1 BAL 79.9	10
10	▽ 3/11/2011							
		S-4					Wet, red-brown, SAND (SP), fine to medium sand Wet, brown, organic SILT (OL)	15
15								
		S-5	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 17 to 22' bgs. Sample-FB14-22-031111				Wet, black, SAND (SP); fine to coarse sand	20
20								
		S-6					Wet, gray, silty SAND (SM); fine sand	
		S-7					Wet, gray, silty SAND (SM); with 1/2" wood debris	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **RRH**

○ No Recovery

▼ Static Water Level

Approved by: **JJS**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **B-9**



Boring Log

Project Number
100166

Boring Number
FB-14

Sheet
2 of 2

Project Name: South Park Landfill

Ground Surface Elev ~16.86' NAVD88 (LIDAR)

Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 9.0' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/11/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
		S-7					Wet, black, SAND (SP); fine to medium sand	
30		S-8						30
		S-9					Wet, olive gray, clayey SILT (MH); black sand interbeds	
35		S-10					Wet, black, SAND (SP); fine to medium sand	35
40			Temporary groundwater sample collected using stainless steel retractable screen placed from 36 to 40' bgs. Sample-FB14-38-031111					40
							Bottom of boring at 40' below ground surface.	
45								45

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **RRH**

○ No Recovery

▼ Static Water Level

Approved by: **JJS**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **B-9**

RI/FS Extent of Solid Waste Probes



Boring Log

Project Number
100166

Boring Number
RP-01

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev

N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water

2.59' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date

1/13/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
	Asphalt patch						Dense, very moist, slightly silty, sandy GRAVEL (GP-GM).	
		S-1		0.0			Medium stiff moist, dark gray, sandy SILT (ML). Dense, moist, brown, slightly silty SAND (SP-SM); medium sand.	
	▽ 1/13/2011						Dark black wood debris and brick fragments.	
5	Hydrated bentonite chip backfill	S-2		0.0			Medium stiff, very moist, dark gray SILT (ML); rapid dilatancy. Grades to soft.	5
10		S-3		0.0			Dense, moist, black SAND (SP). Grades to medium dense. Becomes wet.	10
15		S-4		0.0			Medium stiff, moist, gray SILT(ML); abundant seashells.	15
							Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer, H2S meter, and PID: CH4: 0.3% CO2: 0.1% O2: 20.4% BAL: 79.2% H2S: 0 ppm PID: 0.0 ppm	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **DFR**

○ No Recovery

▼ Static Water Level

Approved by: **JJS**

■ Continuous Core

▽ Water Level (ATD)

Figure No. **B- 10**



Boring Log

Project Number
100166

Boring Number
RP-02

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water 2.4' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 1/13/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
							Dense, moist, slightly silty, sandy GRAVEL (GP-GM).	
							Moist, dark gray, gravelly, sandy SILT (ML).	
		S-1		0.0			Dense, moist, brown, SAND (SP); trace silt, fine to medium sand.	
							Brick fragments.	
							Very moist, dark gray, slightly gravelly SILT (ML).	
							Moist, dark gray SILT (ML); rapid dilatancy.	
5	Hydrated bentonite chip backfill	S-2		0.0				5
							Dense, very moist, black SAND (SP).	
10		S-3		0.0				10
		S-4		0.0				
15							Medium stiff, moist, gray SILT (ML).	15
							Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer, H2S meter, and PID: CH4: 0.2% CO2: 0.1% O2: 20.5% BAL: 79.4% H2S: 2.4 ppm PID: 0.0 ppm	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR

No Recovery

Static Water Level

Approved by: JJS

Continuous Core

Water Level (ATD)

Figure No. B- 11



Boring Log

Project Number
100166

Boring Number
RP-03

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev

N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water

2.2' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date

1/13/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
							Dense, moist, slightly silty, sandy GRAVEL (GP-GM).	
							Dense, moist, brown, slightly silty SAND (SP-SM); medium sand.	
		S-1		0.0			Brick and wood debris.	
							Soft, moist, gray-blue SILT (ML).	
5	Hydrated bentonite chip backfill	S-2		0.0			No recovery.	5
							Soft, very moist, gray SILT (ML).	
10		S-3		0.0				10
							Dense, very moist, black SAND (SP); fine to medium sand.	
		S-4		0.0			Medium stiff, moist, gray SILT (ML).	
15							Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer and H2S meter: CH4: 0.3% CO2: 0.1% O2: 20.5% BAL: 79.2% H2S: 0 ppm	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR

No Recovery

Static Water Level

Approved by: JJS

Continuous Core

Water Level (ATD)

Figure No. B- 12

ENV BORING LOG SOUTH PARK LANDFILL 100116.GPJ November 22, 2011



Boring Log

Project Number
100166

Boring Number
RP-04

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water 1.5' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 1/13/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
							Dense, very moist, brown, silty, sandy GRAVEL (GM)	
	▽ 1/13/2011	S-1		0.0			Crushed red brick and wood debris	
							Moist, gray, slightly silty SAND (SP-SM); fine to medium sand, predominantly fine.	
5	Hydrated bentonite chip backfill	S-2		0.0			Moist, dark brown SILT (ML); frequent brick and wood fragments.	5
							Wood fragments appear native	
							Thinly laminated silt layers	
10		S-3		0.0				10
							Dense, moist, black SAND (SP).	
		S-4		0.0				
							Medium stiff, moist, dark gray, sandy SILT (ML).	
15							Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer and H2S meter: CH4: 0.3% CO2: 0.1% O2: 20.4% BAL: 79.2% H2S: 0.0 ppm	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR

○ No Recovery

▼ Static Water Level

Approved by: JJS

■ Continuous Core

▽ Water Level (ATD)

Figure No. B- 13



Boring Log

Project Number
100166

Boring Number
RP-05

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water 1.31' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 1/13/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
							Organic soil (TOPSOIL), with leaves.	
							Light gray, silty GRAVEL (GM).	
							Brown, gravelly SAND (SW); occasional brick fragments.	
		S-1		0.0			Dense, moist, light brown SAND (SP).	
5	Hydrated bentonite chip backfill						Dark brown.	5
		S-2		0.0			Medium stiff, very moist, brown SILT (ML); oxidized root zones and small rootlets.	
10		S-3		0.0			Dense, gray, slightly gravelly SAND (SP).	10
							Very moist, light red-brown SILT (ML).	
		S-4		0.0			Dense, very moist, black SAND (SP).	
15							Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer and H2S meter: CH4: 0.2% CO2: 0.1% O2: 20.4% BAL: 79.3% H2S: 0 ppm	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR

No Recovery

Static Water Level

Approved by: JJS

Continuous Core

Water Level (ATD)

Figure No. B- 14



Boring Log

Project Number
100166

Boring Number
RP-06

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water 6.5' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 12/29/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
				1.3		Crushed rock and brick (FILL).	Moist to wet, dark gray, slightly silty, slightly sandy GRAVEL (FILL).	
		S-1		0.0				
5	Hydrated bentonite chip backfill							5
	▽ 12/29/2010			0.0				
		S-2		0.0				
10								10
		S-3		0.0				
15								15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: JJS

▬ Continuous Core

▽ Water Level (ATD)

Figure No. B- 15

ENV BORING LOG SOUTH PARK LANDFILL 100116.GPJ November 22, 2011



Boring Log

Project Number
100166

Boring Number
RP-07

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev _____

N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water _____

5.8' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date _____

12/29/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
	Asphalt patch					Asphalt.		
		S-1		0.0		Moist, brown, gravelly, silty SAND (SM); fine to medium sand; subangular gravel.		
				0.0				
5	Hydrated bentonite chip backfill ▽ 12/29/2010	S-2		0.0		Moist, gray, gravelly, very sandy SILT (ML); fine to medium sand; subangular gravel. Dark gray.		5
				0.0				
		S-3		0.0		Moist, gray SAND (SP); trace silt; trace gravel; scattered organics.		
10				0.0		Moist, dark brown, organic SILT (OL); with wood debris.		10
				0.0				
				0.0		Moist to wet, gray, clayey SILT (ML); scattered organics.		
15				0.0		Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer: CH4: 03.1% CO2: 00.8% O2: 18.6% BAL: 78.2%		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

○ No Recovery

▼ Static Water Level

Approved by: JJS

▬ Continuous Core

▽ Water Level (ATD)

Figure No. B- 16



Boring Log

Project Number
100166

Boring Number
RP-08

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev _____

N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water _____

4' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date _____

12/29/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0.0				0.0			Moist, dark gray, slightly silty, sandy GRAVEL (FILL).	
0.0				0.0			Moist, dark gray, slightly gravelly, sandy SILT (ML); abundant wood debris; occasional brick fragments.	
0.0		S-1		0.0			2 inch layer of organic silt.	
0.0				0.0			Very moist, gray SAND (SP); trace silt; fine to medium sand.	
0.0				0.0			Moist, gray SILT (ML); scattered organics.	
5.0	Hydrated bentonite chip backfill			0.0			Wet, dark gray GRAVEL (GP); trace silt; fine gravel.	5
0.0				0.0			Wet, gray, silty SAND (SM); fine to medium sand.	
0.0		S-2		0.0			Wet, gray with iron staining, clayey SILT (ML); trace sand; trace round gravel; scattered organics.	
0.0				0.0			Wet, dark gray SILT (ML).	
10.0				0.0				10
0.0		S-3		0.0			Wet, gray, clayey SILT (ML) to silty CLAY (CL).	
15.0				0.0			Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer: CH4: 00.4% CO2: 00.1% O2: 19.1% BAL: 80.5%	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: AET

No Recovery

Static Water Level

Approved by: JJS

Continuous Core

Water Level (ATD)

Figure No. B- 17



Boring Log

Project Number
100166

Boring Number
RP-09

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water 2.9' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 12/29/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
				0.0			Moist, dark brown, slightly silty, slightly sandy GRAVEL (FILL).	
		S-1		0.0			Moist to wet, dark brown, silty SAND (SM); trace gravel; fine to medium sand, grades finer with depth; scattered organics.	
				0.0			Moist, dark gray, slightly gravelly SAND (SP); trace silt; fine to medium sand.	
5	Hydrated bentonite chip backfill			0.0			Brick debris.	5
		S-2		0.0			Moist, dark brown, organic SILT (OL); trace gravel; abundant wood debris.	
				0.0			Moist, gray, clayey SILT (ML); trace organics.	
10		S-3		0.0				10
				0.0			Wet, gray, slightly silty to silty SAND (SP-SM).	
				0.0			Wood.	
15							Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer: CH4: 00.4% CO2: 00.1% O2: 19.1% BAL: 80.5%	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

No Recovery

Static Water Level

Approved by: **JJS**

Continuous Core

Water Level (ATD)

Figure No. **B- 18**



Boring Log

Project Number
100166

Boring Number
RP-10

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev _____

N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water _____

1.4' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date _____

12/29/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
	Asphalt patch					Asphalt.		
	▽ 12/29/2010			0.0		Moist, brown, dark brown, and gray mottled, slightly silty SAND (SP); fine to medium sand.		
		S-1		0.0		Iron staining.		
5	Hydrated bentonite chip backfill			0.0		Moist, brown/gray, slightly clayey SILT (ML); trace gravel; occasional organics.		5
		S-2		0.0				
10				0.0		No recovery.		10
		S-3						
15						Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer: CH4: 00.1% CO2: 00.1% O2: 19.1% BAL: 80.7%		15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

○ No Recovery

▼ Static Water Level

Approved by: **JJS**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **B- 19**



Boring Log

Project Number
100166

Boring Number
RP-11

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water

1.35' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date

12/29/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
	Asphalt patch					Asphalt.		
	▽ 12/29/2010			0.0		Moist, gray, silty SAND (SM); trace gravel; fine to medium sand.		
		S-1		0.0		Moist, gray SAND (SP); trace silt; trace gravel; fine to medium sand.		
				0.8		Wood.		
5	Hydrated bentonite chip backfill			25.0		Wet, dark brown, organic SILT (OL); trace gravel; abundant wood; petroleum odor.		5
		S-2		0.0		Wet, gray SAND (SP).		
				0.0		Moist, dark brown SILT (ML).		
10		S-3		0.0		Clayey SILT.		10
				0.0		Moist to wet, gray SAND (SP); occasional 1 inch silt lamina.		
15				0.0		Moist, brown SILT (ML); frequent organics.		15
						Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer: CH4: 01.5% CO2: 00.7% O2: 18.7% BAL: 78.9% Sheen on water level indicator after measuring water level ATD.		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

○ No Recovery

▼ Static Water Level

Approved by: **JJS**

▬ Continuous Core

▽ Water Level (ATD)

Figure No. **B-20**



Boring Log

Project Number
100166

Boring Number
RP-12

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev

N/A

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water

3.33' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date

1/17/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
	Asphalt patch						Dense, moist, brown, slightly silty, sandy GRAVEL (GP-GM).	
		S-1					Dense, moist, gray SAND (SP); medium sand.	
	▽ 1/13/2011						1" layer of wood fibers.	
5	Hydrated bentonite chip backfill	S-2					1" layer of dark brown, coarse sand. Wet.	5
		S-3					Medium stiff, moist, gray-blue SILT (ML). Dark brown, decayed wood chunks with SILT (ML).	
10		S-4					Dense, wet, gray-blue SAND (SP); medium sand, occasional wood fibers. 1" layer of wood fibers.	10
							Medium stiff, moist, gray-blue SILT (ML). Grades to brown. Wet.	
15							Bottom of boring at 15' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer and H2S meter: CH4: 0.2% CO2: 0.1% O2: 20.4% BAL: 79.3% H2S: 0 ppm	15

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR

No Recovery

▼ Static Water Level

Approved by: JJS

Continuous Core

▽ Water Level (ATD)

Figure No. B- 21

RI/FS Sediment Samples



Boring Log

Project Number
100166

Boring Number
SS-01

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Aspect / Piston Core Sampler

Depth to Water (ft BGS) N/A

Sampling Method:

Start/Finish Date 12/6/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
1	Formation heave backfill	S-1	SS-01-0-2-120610				Very soft, wet, black, organic MUCK (PT); abundant leaves, twigs, and rootlets; apparent organic waxy sheen	1
2							Occasional fine gravels, "swamp-like" organic odor	2
3							SS-01-2-4-120610	3
4							Medium dense, wet, gray, silty SAND (SM)	4
5			SS-01-4-6-120610				Stiff, wet, olive-gray, slightly sandy organic SILT(OL)	5
6							Refusal at 6' below mudline. Approximately 1.5' of standing water present above mudline.	6
7								7
8								8
9								9

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR/RRH

No Recovery

Static Water Level

Approved by: JJS

Continuous Core

Water Level (ATD)

Figure No. B- 22



Boring Log

Project Number
100166

Boring Number
SS-02

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Aspect / Piston Core Sampler

Depth to Water (ft BGS) N/A

Sampling Method:

Start/Finish Date 12/6/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
1	Formation heave backfill		SS-02-0-2-120610				Very soft, wet, black, organic MUCK (PT); abundant leaves, twigs, and rootlets; apparent organic waxy sheen	1
2								2
3		S-1	SS-02-2-4-120610				Occasional fine gravels, "swamp-like" organic odor	3
4							Fibrous texture, slightly silty	4
5			SS-02-4-6-120610					5
6							Refusal at 6' below mudline. Approximately 1.5' of standing water present above mudline.	6
7								7
8								8
9								9

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR/RRH

No Recovery

Static Water Level

Approved by: JJS

Continuous Core

Water Level (ATD)

Figure No. B-23



Boring Log

Project Number
100166

Boring Number
SS-03

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev N/A

Location: Seattle, WA

Driller/Method: Aspect / Piston Core Sampler

Depth to Water (ft BGS) N/A

Sampling Method:

Start/Finish Date 12/6/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)	
1	Formation heave backfill		SS-03-0-2-120610				Very soft, wet, black, organic MUCK (PT); abundant leaves, twigs, and rootlets; apparent organic waxy sheen	1	
2							Occasional fine gravels, "swamp-like" organic odor	2	
3		S-1	SS-03-2-4-120610					3	
4								Wet, olive gray, silty CLAY (CH)	4
5				SS-03-4-6-120610				Wet, dark gray, SAND (SP); trace organics	5
6								Refusal at 6' below mudline. Approximately 1.5' of standing water present above mudline.	6
7								7	
8								8	
9								9	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR/RRH

No Recovery

Static Water Level

Approved by: JJS

Continuous Core

Water Level (ATD)

Figure No. B-24

RI/FS Monitoring Wells



Boring Log

Project Number
100166

Boring Number
MW-29

Sheet
1 of 1

Project Name: **South Park Landfill**

Ground Surface Elev **19.45' NAVD88**

Location: **Seattle, WA**

Driller/Method: **Cascade Drilling, LP / Direct Push Probe**

Depth to Water **5.4' BGS (ATD)**

Sampling Method: **Continuous Core**

Start/Finish Date **1/14/2011**

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0-2'	Concrete seal, 0'-2'							
0-20'	2-inch diameter schedule 40 PVC casing, 0'-20'	S-1					Dense, moist, dark gray, slightly silty, sandy GRAVEL (GP-GM), occasional brick fragments.	5
2'-18'	Hydrated bentonite chips, 2'-18'	S-2		0.0			Dense, moist, brown, SAND (SP); medium sand.	5
2'-18'		S-3		0.0			Medium stiff, moist, dark brown SILT (ML); occasional wood fibers; glass pieces at 6'. Grades to light brown with frequent wood fibers. Grades to soft, dark gray, with black wood fragments. No wood, thin silt laminations.	10
2'-18'		S-4		0.0				15
18'-30'	#8/12 sand filter pack, 18'-30'	S-5		0.0			Dense, very moist, black SAND (SP); fine to medium sand.	20
20'-30'	2-inch diameter schedule 40 PVC 20-slot prepacked screen, 20'-30'	S-6		0.0			Dense, wet, dark gray, very silty SAND (SM); with occasional thin sandy silt interbeds.	25
20'-30'		S-7		0.0			Dense, wet, dark brown to black SAND (SP); with thick silty sand interbeds.	25
20'-30'		S-8		0.0			Dense, wet, dark brown to black, sandy SILT (ML). Dense, wet, black SAND (SP); fine sand.	30
30'-35'	PVC endcap Aluminum drive shoe			0.0			Bottom of boring at 10' below ground surface. Soil vapors were measured using GEM 2000 gas analyzer, H2S meter, and PID: CH4: 0.2% CO2: 0.1% O2: 20.4% BAL: 79.5% H2S: 0.0 ppm PID: 0.0 ppm	35

ENV BORING LOG SOUTH PARK LANDFILL 100116.GPJ December 1, 2011

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **DFR**

No Recovery

Static Water Level

Approved by: **JJS**

Continuous Core

Water Level (ATD)

Figure No. **B- 25**



Boring Log

Project Number
100166

Boring Number
MW-30

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev 17.60' NAVD88

Location: Seattle, WA

Driller/Method: Cascade Drilling, / Hollow Stem Auger

Depth to Water 10.8' BGS (ATD)

Sampling Method: Dames & Moore

Start/Finish Date 6/15/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0 - 2'	Concrete seal, 0'-2'							
0 - 8'	2-inch diameter schedule 40 PVC casing, 0'-8'							
2 - 6'	Hydrated bentonite chips, 2'-6'							
5.0 - 5.5'		S-1		0.0	1 1 1		Loose, slightly moist, brown, trace to slightly silty SAND (SP-SM); fine to medium sand, predominantly fine.	5
6 - 13'	#2/12 sand filter pack, 6'-13'							
10.0 - 10.5'		S-2		0.0	1 1 1		Loose, slightly moist, brown, slightly silty SAND (SP-SM); with frequent, thin SILT (ML) lamina.	
8 - 13'	2-inch diameter schedule 40 PVC 10-slot screen, 8'-13'							
10.0 - 10.5'		S-3		0.0	1 1 1		Loose, wet, brown, slightly silty SAND (SP-SM); trace fine gravel.	10
10.5' - 11.0'	Static Water Level (ATD) 6/15/2011							
11.0' - 11.5'							Soft, wet, gray, clayey SILT (ML).	
11.5' - 12.0'							Loose, wet, black, slightly silty to silty SAND (SP-SM). Gravelly.	
12.0' - 12.5'		S-4		0.0	2 1 1		Loose, wet, black SAND (SP) with 2" gray SILT (ML) pockets.	
12.5' - 13.0'	PVC endcap							
13.0' - 15.0'	Slough							
15.0' - 15.5'		S-5		0.0	3 4 6		Loose, wet, black SAND (SP); fine to medium sand.	15
16.5'							Bottom of boring at 16.5' below ground surface.	

ENV BORING LOG SOUTH PARK LANDFILL 100116.GPJ December 1, 2011

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET**

Approved by: **JJS**

Figure No. **B-26**



Boring Log

Project Number
100166

Boring Number
MW-31

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev 17.58' NAVD88

Location: Seattle, WA

Driller/Method: Cascade Drilling, / Hollow Stem Auger

Depth to Water 11' BGS (ATD)

Sampling Method: Dames & Moore

Start/Finish Date 6/15/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
	Concrete seal, 0'-2'						Loose, slightly moist, brown, slightly silty SAND (SP-SM); fine sand.	
5	2-inch diameter schedule 40 PVC casing, 0'-18'	S-1		0.0	3 3 3			5
		S-2		0.0	3 3 4		Loose, slightly moist, dark gray SAND (SP); fine to medium sand.	
10	Hydrated bentonite chips, 2'-16' ▽ 6/15/2011	S-3		0.0	4 4 3		Wet.	10
15		S-4		0.0	3 5 8		Stiff, wet, gray SILT (ML); with wood debris.	15
	#2/12 sand filter pack, 16'-26'						Medium dense, wet, dark gray to black SAND (SP); trace silt; fine to medium sand.	
20	2-inch diameter schedule 40 PVC 10-slot screen, 18'-23'	S-5		0.0	4 6 8			20
	PVC endcap							
25		S-6		0.0	5 9 9			25
							Bottom of boring at 26' below ground surface.	

ENV BORING LOG SOUTH PARK LANDFILL 100116.GPJ December 1, 2011

Sampler Type:

- No Recovery
- 3.25" OD D&M Split-Spoon
- Ring Sampler

PID - Photoionization Detector (Headspace Measurement)

- Static Water Level
- Water Level (ATD)

Logged by: **AET**

Approved by: **JJS**

Figure No. **B- 27**



Boring Log

Project Number
100166

Boring Number
MW-32

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev 17.51' NAVD88

Location: Seattle, WA

Driller/Method: Cascade Drilling, / Hollow Stem Auger

Depth to Water 10.90' bTOC

Sampling Method: Dames & Moore

Start/Finish Date 6/29/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0-2'	Concrete seal, 0'-2'							
0-20'	2-inch diameter schedule 40 PVC casing, 0'-20'	S-1	CH4: 0.1% CO2: 0.1% O2: 20.1%	0.0	2 2 2		Very loose, moist, dark red-brown, slightly silty SAND (SP-SM); fine sand; glass shards, burnt woods debris, and other refuse present	5
	Well installed with 10.25" ID conductor casing installed to a depth of 11.5' bgs. A 1 ft thick bentonite seal was constructed from 10.5' to 11.5' bgs and hydrated for 1 hr before drilling to 24' bgs with 4.25" ID hollow stem augers.	S-2	CH4: 0.1% CO2: 0.1% O2: 19.1%	0.0	4 1 1			
		S-3		0.0	2 5 5		Very loose, very moist, black SAND (SP); medium sand; no refuse present	10
	▽ 6/29/2011	S-4	CH4: 0.1% CO2: 0.1% O2: 20.0%	0.0	2 3 4		Medium stiff, wet, dark blue-gray SILT (ML)	
		S-5		0.0	1 2 2			
	Hydrated bentonite chips, 2'-17'	S-6		0.0	3 3 4			15
	#2/12 sand filter pack, 17'-24'						Medium dense, wet, dark gray to black SAND (SP); trace silt; fine to medium sand.	
	2-inch diameter schedule 40 PVC 10-slot screen, 19'-24'	S-7		0.0	10 12 13			20
	PVC endcap						Bottom of boring at 24' below ground surface. Ecology Well ID Tag BHA-082	25

ENV BORING LOG SOUTH PARK LANDFILL 100116.GPJ December 1, 2011

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: DFR

- No Recovery
- ◐ 3.25" OD D&M Split-Spoon
- ◑ Ring Sampler

▼ Static Water Level

▽ Water Level (ATD)

Approved by: JJS

Figure No. B- 28



Boring Log

Project Number
100166

Boring Number
MW-33

Sheet
1 of 1

Project Name: **South Park Landfill**

Ground Surface Elev **17.81' NAVD88**

Location: **Seattle, WA**

Driller/Method: **Cascade Drilling, / Hollow Stem Auger**

Depth to Water **11.05' bTOC**

Sampling Method: **Dames & Moore**

Start/Finish Date **6/29/2011**

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
0-2'	Concrete seal, 0'-2'							
2-20'	2-inch diameter schedule 40 PVC casing, 0'-20'	S-1	CH4: 0.1% CO2: 0.1% O2: 19.1%	0.0	2 2 4		Very loose, slightly moist, brown, medium SAND (SP)	
11.5'-11.5'	Well installed with 10.25" ID conductor casing installed to a depth of 11.5' bgs. A 1 ft thick bentonite seal was constructed from 10.5' to 11.5' bgs and hydrated for 1 hr before drilling to 24' bgs with 4.25" ID hollow stem augers.	S-2	CH4: 0.1% CO2: 0.1% O2: 20.0%	0.0	2 3 4		Very loose, moist, dark red-brown, slightly silty SAND (SP-SM); fine sand; glass shards, burnt woods debris, and other refuse present	5
11.5'-16'		S-3		0.0	8 16 20		Very loose, very moist, black SAND (SP); medium sand; no refuse present	
16'-17'	▽ 6/29/2011	S-4	CH4: 0.1% CO2: 0.1% O2: 20.1%	0.0	4 3 2		Medium stiff, wet, dark blue-gray SILT (ML)	10
17'-18'		S-5		0.0	4 5 6		No sample recovery due to rock in sampler	
18'-18'	Hydrated bentonite chips, 2'-18'	S-6		0.0	2 3 4		Medium dense, wet, dark gray to black SAND (SP); trace silt; fine to medium sand.	15
18'-25'	#2/12 sand filter pack, 18'-25'							
19'-25'	2-inch diameter schedule 40 PVC 10-slot screen, 19'-25'	S-7		0.0	10 12 12			20
25'-25'	PVC endcap							25
25'-25'							Bottom of boring at 25' below ground surface. Ecology Well ID Tag BHA-083	

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **DFR**

- No Recovery
- ◻ 3.25" OD D&M Split-Spoon
- ◻ Ring Sampler

▼ Static Water Level

▽ Water Level (ATD)

Approved by: **JJS**

Figure No. **B-29**

RI/FS Gas Probes



Log of Boring: GP-33

Client: South Park Property
Project: South Park Landfill
Location: South Park, WA

Date/Time Started: 5/15/13 @ 09:10
Date/Time Completed: 5/15/13 @ 09:40
Equipment: Geoprobe 6600
Drilling Company: Cascade Drilling
Drilling Foreman: Don Harnden
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 9.7'
Total Boring Depth (ft bgs): 15'
Total Well Depth (ft bgs): 10'

Farallon PN: 408-002

Logged By: Ken Scott

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-2.8' Sandy SILT Fill (70% silt, 30% sand), fine sand, dark brown, moist, no odor, no sheen.	ML							Riser
										Concrete
		2.8-3.6' Poorly graded SAND with gravel Fill (75% sand, 20% gravel, 5% silt), fine to medium sand, fine to coarse gravel, whitish-grey, moist, no odor, no sheen. Observed angular grey gravel fill.	SP		80	NA	0.0			Bentonite
		3.6-8.2' Silty SAND Fill (65% sand, 25% silt, 10% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen. Observed red brick debris.	SM							Sand
5										Screen
		8.2-8.9' SILT with sand Fill (80% silt, 20% sand), fine sand, reddish-brown, moist, no odor, no sheen.	ML		70	NA	0.0			
		8.9-12.5' Sandy SILT Fill (60% silt, 35% sand, 5% gravel), fine sand, fine gravel, brown, moist to wet at 9.7-feet bgs, slight odor, no sheen. Measured water height using water level indicator. Observed brick debris to 12-feet bgs.	ML							End cap
10										Water level
		12.5-14.0' Silty SAND (70% sand, 30% silt), fine sand, brown, wet, odor, no sheen.	SM		60	NA	0.0			Fill
		14.0-15.0' SILT (100% silt), olive-grey, wet, slight odor, no sheen.	ML							
15										

Well Construction Information

Monument Type: 3.2' Riser	Filter Pack: 2/12 silica sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 3/4"	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA
Screened Interval (ft bgs): 5.0 to 10.0' bgs	Boring Abandonment: NA	Y: NA



Log of Boring: GP-34

Client: South Park Property
Project: South Park Landfill
Location: South Park, WA

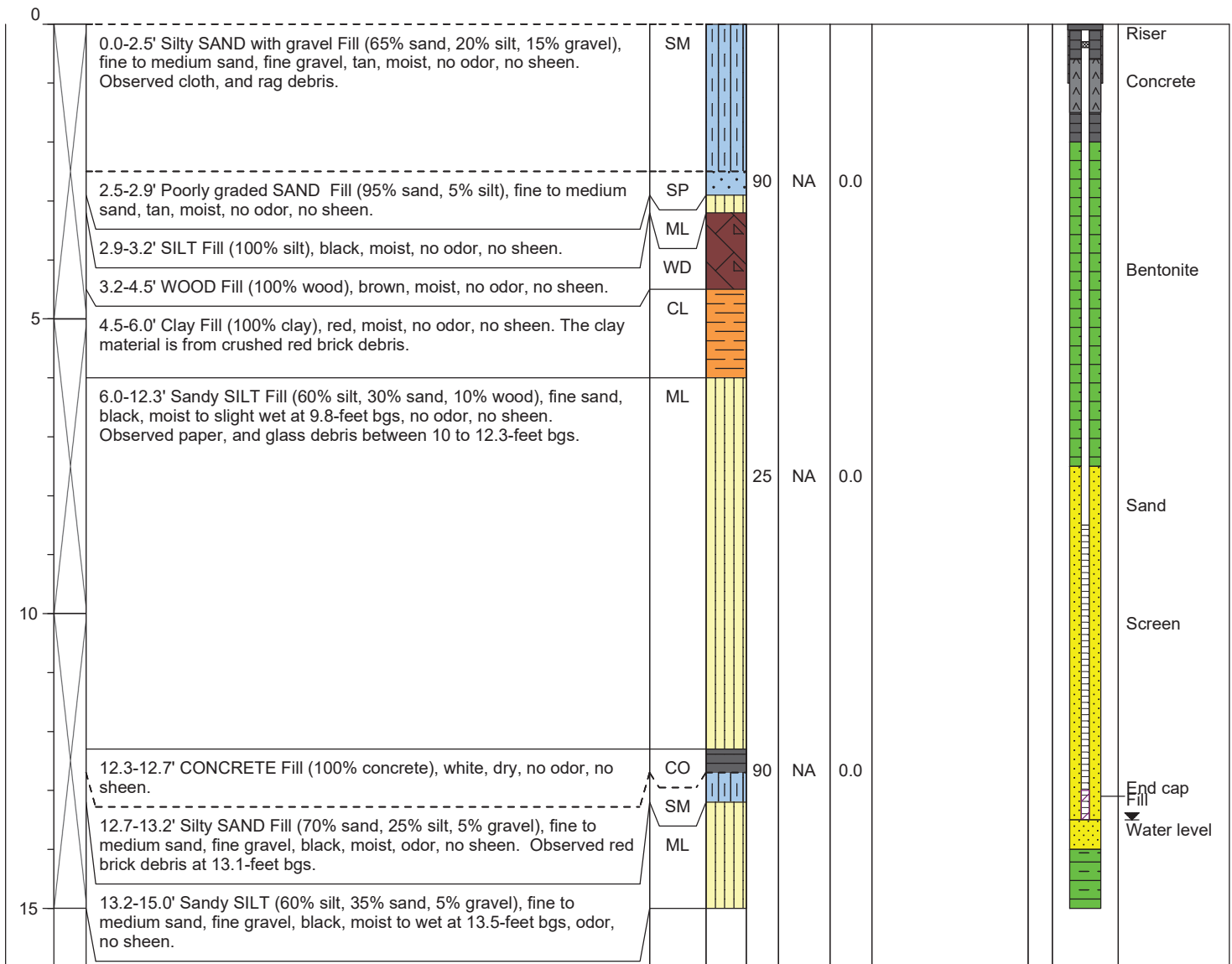
Date/Time Started: 5/15/13 @ 11:45
Date/Time Completed: 5/15/13 @ 12:15
Equipment: Geoprobe 6600
Drilling Company: Cascade Drilling
Drilling Foreman: Don Harnden
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 13.5'
Total Boring Depth (ft bgs): 15'
Total Well Depth (ft bgs): 15'

Farallon PN: 408-002

Logged By: Ken Scott

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: 3.6' Riser	Filter Pack: 2/12 silica sand	Ground Surface Elevation (ft):	NA
Casing Diameter (inches): 3/4"	Surface Seal: Concrete	Top of Casing Elevation (ft):	NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA	
Screened Interval (ft bgs): 8.5 to 13.5' bgs	Boring Abandonment: NA	Y: NA	

Client: South Park Property
Project: South Park Landfill
Location: South Park, WA

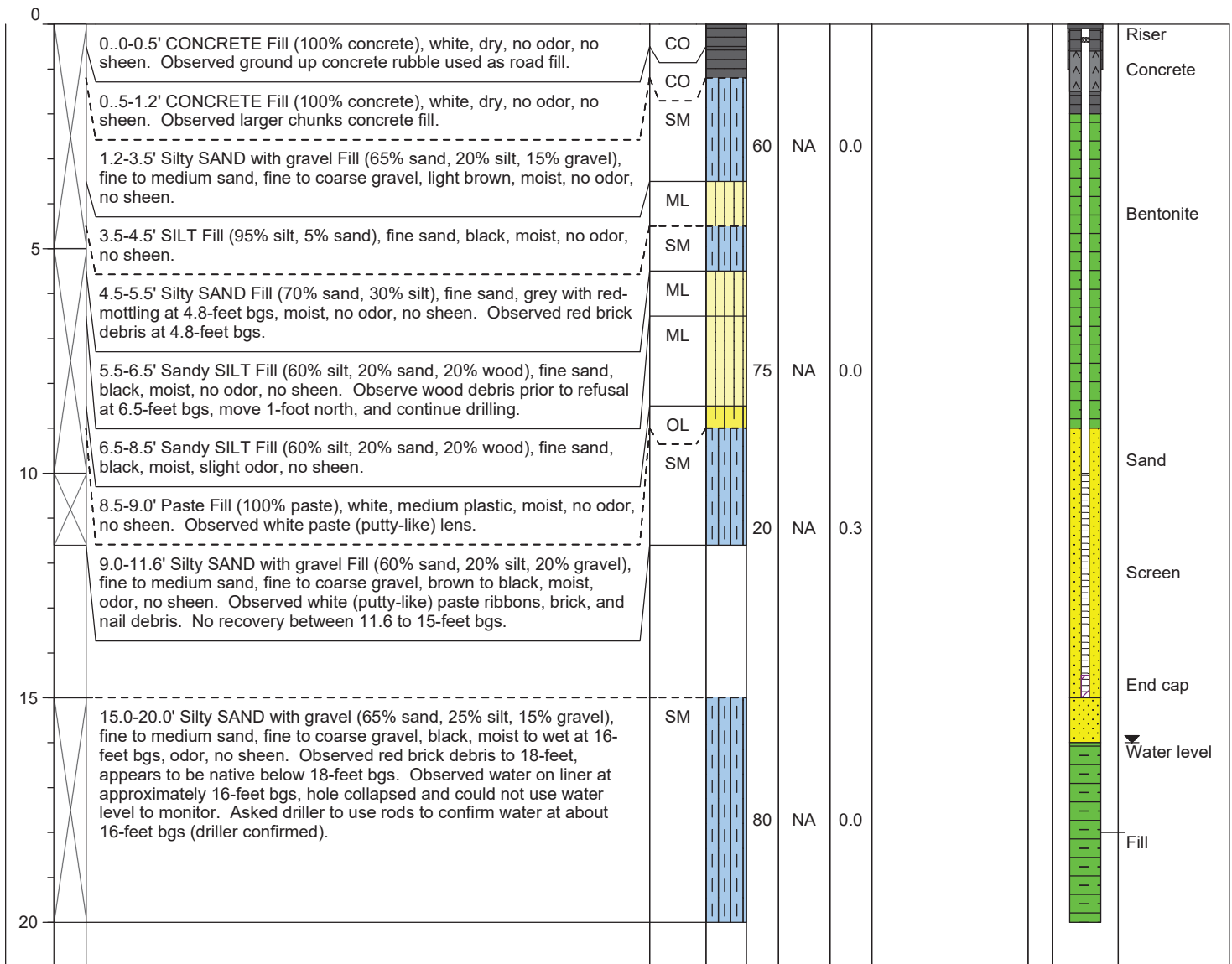
Date/Time Started: 5/15/13 @ 13:50
Date/Time Completed: 5/15/13 @ 14:30
Equipment: Geoprobe 6600
Drilling Company: Cascade Drilling
Drilling Foreman: Don Harnden
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 16'
Total Boring Depth (ft bgs): 20'
Total Well Depth (ft bgs): 15'

Farallon PN: 408-002

Logged By: Ken Scott

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: 4.0' Riser
Casing Diameter (inches): 3/4"
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 10 to 15' bgs

Filter Pack: 2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
 Y: NA



Log of Boring: GP-36

Client: South Park Property
Project: South Park Landfill
Location: South Park, WA

Date/Time Started: 5/15/13 @ 15:25
Date/Time Completed: 5/15/13 @ 15:50
Equipment: Geoprobe 6600
Drilling Company: Cascade Drilling
Drilling Foreman: Don Harnden
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 15'
Total Boring Depth (ft bgs): 20'
Total Well Depth (ft bgs): 15'

Farallon PN: 408-002

Logged By: Ken Scott

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-3.5' Silty SAND Fill (70% sand, 25% silt, 5% gravel), fine to medium sand, fine gravel, light brown, moist, no odor, no sheen. Observed concrete debris.	SM		75	NA	0.0			Riser Concrete
5		3.5-8.5' Sandy SILT Fill (65% silt, 30% sand, 5% gravel), fine sand, fine gravel, reddish-brown, moist, no odor, no sheen. Observed plastic, concrete, and red brick debris.	ML		80	NA	0.2			Bentonite
10		8.5-10.0' Sandy SILT Fill (60% silt, 35% sand, 5% gravel), fine to medium sand, fine gravel, reddish-brown to black, moist, odor, no sheen. Observed wood, and red brick debris at 9-feet bgs.	ML							Sand
15		10.0-15.0' No Recovery (0%-recovery). Driller stated hard to push at start than pushed quickly through fill debris.	BLANK		0	NA	NM			Screen
20		15.0-20.0' No Recovery (~2%-recovery). Driller stated hard to push at start than pushed quickly through fill debris. Observed water on liner at 15-feet bgs, hole collapsed and could not monitor water level with meter. Driller used rods to confirm water level about 15-feet bgs. Observed small chunk of wet Silty SAND (70% sand, 20% silt, 5% gravel), fine to medium sand, black, wet, odor, no sheen.	BLANK		2	NA	0.0			End cap Water level

Well Construction Information

Monument Type: 4.0' Riser
Casing Diameter (inches): 3/4"
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 10 to 15' bgs

Filter Pack: 2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



GAS PROBE BORING LOG

Well ID GP-37

Total depth: 10'

Sheet 1 of 1

Project name: South Park Landfill

Project number: 10-04850-000

Client: City of Seattle

Drilling Contractor: ESN

Drilling method: Push probe

Sampling method: 5' core sample

Location: SE corner of South Park Transfer Station, landscape area

HEC rep: Bruce Carpenter

Date: 10/14/2015

PID (ppm)	Sampling type, interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
0	5' core	90	1	SW	7.65 10/15/15	Top soil	<p>concrete seal, 0' - 1'</p> <p>Hydrated bentonite chips, 1' - 2.5'</p> <p>3/4-inch dia. schedule 40 PVC casing 0-3'</p> <p>#2/12 sand filter pack, 2.5' - 10'</p> <p>3/4-inch dia. schedule 40 PVC 10 slot prepacked screen 3'-8'</p> <p>PVC endcap</p>
			2	GW		Brown gravelly SAND, fill, damp	
			3			Gray-Dark brown sandy GRAVEL, fill, damp	
			4			Light-Brown sandy GRAVEL, fill, damp	
			5	SP		Brown medium SAND, fill, damp	
6							
0	5' core	60	7	SW		Gray gravelly SAND, fill, damp	
			8			Brown silty CLAY, damp	
			9	CH		Gray-Brown mottled silty CLAY, damp	
			10				
						<p>Soil vapors were measured in bore hole using GEM 2000 Plus and Photoionization Detector (PID).</p> <p>PID - 0 PPM CH₄ - 0% CO₂ - 0.1% O₂ - 21.1% H₂S - 0 PPM</p> <p>Ecology Well Tag ID BJM 004</p>	



GAS PROBE BORING LOG

Well ID GP-38

Total depth: 15'

Sheet 1 of 1

Project name: South Park Landfill

Project number: 10-04850-000

Client: City of Seattle

Drilling Contractor: ESN

Drilling method: Push probe

Sampling method: 5' core sample

South Park Transfer Station
Location: West Bldg, inside gate to east side

HEC rep: Bruce Carpenter

Date: 09/29/2015

PID (ppm)	Sampling type, interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
0	5' core	80	1	SW SP ↓		Asphalt 13.5'	<p>concrete seal, 0' - 1'</p> <p>Hydrated bentonite chips, 1' - 3'</p> <p>3/4-inch dia. schedule 40 PVC casing 0 - 4'</p> <p>#2/12 sand filter pack, 3' - 10'</p> <p>3/4-inch dia. schedule 40 PVC 10 slot prepacked screen 4' - 9'</p> <p>PVC endcap</p>
			2			Brown-gray gravelly SAND, fill, dry	
			3			Light brown medium SAND, fill, dry	
			4			Brown medium SAND, fill, dry	
			5				
0	5' core	60	6	ML		Brown medium SAND, fill, dry	
			7			Gray sandy, SILT, damp	
			8				
			9			Gray silty SAND, damp	
			10			Gray sandy SILT, damp	
0	5' core	70	11	CH		Gray silty SAND, wet	
			12			Gray silty CLAY, wet, plastic	
			13				
			14				
			15				
						<p>Soil vapors were measured in bore hole using GEM 2000 Plus and Photoionization Detector (PID).</p> <p>0 PID PPM</p> <p>CH₄ - 0.01%</p> <p>CO₂ - 0.1%</p> <p>O₂ - 21.6%</p> <p>H₂S - 0.0%</p> <p>BAL 78.2</p> <p>Ecology Well Tag ID BJM003</p>	



GAS PROBE BORING LOG

Well ID GP-39

Total depth: 15'

Sheet 1 of 1

Project name: South Park Landfill/KIP

Project number: 10-04850-000

Client: City of Seattle

Drilling Contractor: ESN NW

Drilling method: Push probe rig

Sampling method: 5' core sample

Instrument(s): GEM/PID

Location: N. loading dock - KIP

HEC rep: Bruce Carpenter

Date: 09/14/2016

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
0		80	1	GW/ SW	▼ 10.6'	6" Concrete (loading dock)	
			2			Brown-Gray sandy GRAVEL, to gravelly SAND, fill, dry	
			3				
			4			4" zone black gravelly SAND, dry (original ground surface)	
			5			Fill	
0		100	6	GW/ SW			
			7			Buff colored cement kiln dust (CKD), fill, dry damp to wet	
			8				
			9				
			10			Brown-black, sandy GRAVEL, wet, groundwater encountered at 9.5'	
0		80	11	ML			
			12			Brown, sandy GRAVEL, gravelly Sand, wet	
			13				
			14				
			15			Brown-gray clayey SILT, (silt overbank deposit), wet	
						CH ₄ - 0.3 CO ₂ - 1.7 O ₂ - 15.2 H ₂ S - 0	



GAS PROBE BORING LOG

Well ID GP-40

Total depth: 9'

Sheet 1 of 1

Project name: South Park Landfill/KIP

Project number: 10-04850-000

Client: City of Seattle

Drilling Contractor: ESN NW

Drilling method: Push probe rig

Sampling method: 5' core sample

Instrument(s): GEM/PID

Location: S. TPG-8 and NW of KMW-05

HEC rep: Bruce Carpenter

Date: 09/14/2016

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail	
0	X	40	1	SM	▼ 3.25'	Asphalt 3"; Aggregate 6"		
			2			Brown silty, SAND, fill, damp		
			3			Brown, silty SAND, damp groundwater encountered at 3.2'		
			4			Buff colored CKD, fill, wet		
			5	SM		Brown-gray, medium SAND, wet		
0	X	15	6	ML		↓ No recovery		Gray-brown clayey SILT, wood, (silt overbank deposit) wet
			7					
			8					
			9	Refusal at 9' bgs				
						CH ₄ - 0.8 CO ₂ - 0.7 O ₂ - 19.5 H ₂ S - 0		



GAS PROBE BORING LOG

Well ID GP-41

Total depth: 10'

Sheet 1 of 1

Project name: South Park Landfill/KIP

Project number: 10-04850-000

Client: City of Seattle

Drilling Contractor: ESN NW

Drilling method: Push probe rig

Sampling method: 5' core sample

Instrument(s): GEM/PID

Location: Adjacent to TGP-13

HEC rep: Bruce Carpenter

Date: 09/14/2016

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail	
0	X	25	1	FILL	▼ 4.3'	2" Asphalt 6" aggregate, silty, gravel		
			2			Buff colored cement kiln dust (CKD), dry		
			3					
			4					
			5					
0	X	30	6	SM				Brown silty SAND, fill, damp groundwater encountered at 4.3'
			7					Sand, fill/poor recovery
			8					
			9	ML				
			10			Dark gray-dark brown clayey SILT, damp, organic material, wood (silt overback deposit)		
						CH ₄ - 0.0 CO ₂ - 0.0 O ₂ - 20.2 H ₂ S - 0		



GAS PROBE BORING LOG

Well ID GP-42

Total depth: 13'

Sheet 1 of 1

Project name: South Park Landfill/KIP

Project number: 10-04850-000

Client: City of Seattle

Drilling Contractor: ESN NW

Drilling method: Push probe rig

Sampling method: 5' core sample

Instrument(s): GEM/PID

Location: Adjacent to TGP-22

HEC rep: Bruce Carpenter

Date: 09/14/2016

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
0	X	65	1	SP	7.62'	4" concrete	
			2			Brown medium SAND, fill, damp	
			3				
			4				
			5				
0	X	50	6	SM		Brown-silty SAND, damp	
			7	FILL		Buff colored cement kiln dust, damp	
			8	ML		3" black sandy silt, hydrocarbon, odor, damp	
			9	SP		Gray medium SAND, fill, damp	
			10			Groundwater encountered at 9.5'	
0	X	35	11	ML		Dark brown clayey SILT, damp (silt overback deposit)	
			12				
			13				
						CH ₄ - 0.2 CO ₂ - 0.1 O ₂ - 19.8 H ₂ S - 0	



GAS PROBE BORING LOG

Well ID GP-43

Total depth: 10'

Sheet 1 of 1

Project name: South Park Landfill/KIP

Project number: 10-04850-000

Client: City of Seattle

Drilling Contractor: ESN NW

Drilling method: Push probe rig

Sampling method: 5' core sample

Instrument(s): GEM/PID

Location: Adjacent to TGP-21

HEC rep: Bruce Carpenter

Date: 09/14/2016

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
0	X	50	1		4.90'	Grass, topsoil	<p>Concrete seal, 0' - 1'</p> <p>Hydrated bentonite chips, 1.0' - 2.0'</p> <p>#2/12 sand filter pack, 2.0' - 10'</p> <p>3/4-inch dia. schedule 40 PVC 10 slot prepacked screen 2.6'-9.9'</p> <p>PVC endcap</p>
			2	ML		Brown, gravelly SILT, fill, damp	
			3	FILL		8" Buff colored cement kiln dust (CKD)	
			4			Gray fine silty SAND, fill, damp	
			5	SM		Groundwater encountered at 6'	
0	X	100	6			Gray-brown clayey SILT, wet	
			7	CH			
			8	ML		Brown sandy SILT, wet	
			9	OL		Dark brown clayey SILT, wood chips, organic matter (silt overbank deposit)	
			10				
						CH ₄ - 0.0 CO ₂ - 0.1 O ₂ - 20.9 H ₂ S - 0	



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-1
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Northern transect Sampling method 5 ft core with plastic liner
 Client City of Seattle easternmost location, west of KMW-06 Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date September 29, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
						Asphalt – 3”, aggregate – 4”, crushed rock
0	5-foot core with liner	40		1	SW/ Fill	Brown to black, gravelly SAND, brick, glass fragments, fill, dry
				2		
				3		
				4		
				5		
0	5-foot core with liner	30		6	GW/ SW/ Fill	Charred wood fragments
				7		Gray to black gravelly SAND, glass fragments, fill, damp
				8		2-inch zone of buff colored sandy GRAVEL, damp
				9		
				10		CH
						<p>Groundwater not encountered during drilling. Set bar hole probe at 9.5 ft bgs. Backfilled borehole with bentonite chips.</p> <p>CH4: 0.2% CO2: 0.1% O2: 20.7% H2S: 0.0 ppmv</p>

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-2
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Northern transect Sampling method 5 ft core with plastic liner
 Client City of Seattle second probe from easternmost location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date September 29, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	60				Asphalt – 2”, aggregate – 3.5”, crushed rock
				1	SM/Fill	Gray to brown silty SAND, fill, dry
				2	Fill	Buff colored, cement kiln dust, fill, dry
				3		
				4		
0	5-foot core with liner	80		5	SM/ Fill	Dark brown gravelly silty SAND, fill, damp
				6		Black silty SAND, charred wood, glass, plastic, fill, damp
				7		Dark brown silty SAND, brick and asphalt fragments, fill, damp
				8		
				9	CH	Gray silty CLAY, damp
				10		
						<p>Groundwater not encountered during drilling. Set bar hole probe at 7.0 ft bgs. Backfilled borehole with bentonite chips.</p> <p>CH4: 0.3% CO2: 6.6% O2: 0.6% H2S: 0.0 ppmv</p>

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-3
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Northern transect Sampling method 5 ft core with plastic liner
 Client City of Seattle third probe from easternmost location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date September 29, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
						Asphalt – 1.5”, aggregate – 5.5”, crushed rock
0	5-foot core with liner	70		1	SM/Fill	Brown silty SAND, fill, dry
				2	Fill	Buff colored, cement kiln dust, fill, dry
				3		
				4		
				5	SM/Fill	Brown sandy SILT, fill, damp
0	5-foot core with liner	15		6	SW/Fill	Gray to brown gravelly SAND, fill, damp
				7		Dark brown gravelly SAND, glass, brick fragments, trace of gravel, fill, damp
				8		
				9		
				10	CH	Gray silty CLAY, damp
						Groundwater not encountered during drilling. Set bar hole probe at 7.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.0% CO2: 0.0% O2: 21.7% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-4
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Northern Transect Sampling method 5 ft core with plastic liner
 Client City of Seattle Westernmost location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date September 29, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	60				Asphalt – 3.5”, aggregate – 2.0”, crushed rock
				1	SW/Fill	Brown to gray gravelly SAND, fill, damp
				2		
				3	SP/Fill	Brown medium SAND, fill, damp
				4		
5						
0	5-foot core with liner	30			SW/Fill	Dark brown gravelly SAND, fill, damp
				6		Gray gravelly SAND, fill, damp
				7		
				8		
				9		
		CH	Gray silty CLAY, with cobbles, fill, damp			
			10			
						Groundwater not encountered during drilling. Set bar hole probe at 7.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.1% CO2: 1.6% O2: 19.4% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-5
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Second transect from north Sampling method 5 ft core with plastic liner
 Client City of Seattle easternmost probe location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date September 29, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	70	▽	1	SW/Fill	Asphalt – 2.5”, aggregate – 8.5”, crushed rock
				2		Brown gravelly SAND, brick, glass fragments, fill, damp
				3		Black gravelly SAND, pieces of rubber tire, glass, fill, damp
				4		
				5		
0	5-foot core with liner	70		6	SM/Fill	Dark brown to black silty SAND, wood fragments, trace of gravel fill, damp
				7		
				8		
				9	CH	Dark gray silty CLAY, wet
				10		
						<p>Set bar hole probe at 6.0 ft bgs. Backfilled borehole with bentonite chips.</p> <p>CH4: 23.4% CO2: 19.5% O2: 0.0% H2S: 1.0 ppmv</p>

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-6
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Second transect from north Sampling method 5 ft core with plastic liner
 Client City of Seattle third location to west Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date September 29, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description	
				1		Asphalt – 3.0”, aggregate – 4”, crushed rock	
0	5-foot core with liner	100		2	Fill	Buff colored cement kiln dust, fill, damp Ground water encountered during drilling at 6.5 feet Static water level measured at 6.99 feet	
				3			
				4			
				5			
				6			
			▽	7			
			▼	8			
			6.99	9			
					CL		Black gravelly CLAY, petroleum odor, wet
				10	CH		Gray to black, silty CLAY, wet
						Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 9.6% CO2: 0.0% O2: 17.9% H2S: 2.0 ppmv	

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-7
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Second transect from north Sampling method 4 ft core with plastic liner
 Client City of Seattle between TGP-6 and TGP-5 Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 13, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	4-foot core with liner	75		1		Asphalt – 2.0”, aggregate – 8”, crushed rock
				2	SW/Fill	Brown gravelly SAND, fill, dry
					SM/Fill	Dark brown silty gravelly SAND, fill, dry
				3	ML/Fill	Gray to brown sandy SILT, trace of gravel, brick fragments, fill, dry
0	4-foot core with liner	70		4		
				5	SW/Fill	Brown gravelly SAND, trace of silt, fill, damp
				6	ML	Gray clayey SILT, damp
				7	SM	Gray to brown silty SAND, damp
0	2-foot core with liner	100		8	MH	Brown clayey SILT, damp
				9		
			10			
						Groundwater not encountered Set bar hole probe at 6.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.9% CO2: 0.7% O2: 20.2% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-8
 Total depth 12 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Second Transect from north Sampling method 4 ft core with plastic liner
 Client City of Seattle westernmost probe Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 13, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description	
						Asphalt – 2.0”, aggregate – 5”, crushed rock	
0	4-foot core with liner	100	▼ 6.5	1	Fill	Buff colored cement kiln dust	
				2			
				3			
				4			
0	4-foot core with liner	75		5	Fill	Crushed brick	
				6			
				7			
				8			
0	2-foot core with liner	No Recovery		▽	9	GW/Fill	Gray GRAVEL. Crushed rock, fill, damp
					10	SW/Fill	Black gravelly SAND, rock fragments, fill, hydrocarbon stain, wet
							Ground water encountered during drilling at 8.0 feet No recovery
0	2-foot core with	50			11	MH	Brown clayey SILT, wet
			12				
							Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.1% CO2: 3.3% O2: 13.4% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-9
 Total depth 8 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Third transect from north Sampling method 4 ft core with plastic liner
 Client City of Seattle west of TGP-10 Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 13, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	4-foot core with liner	100	▼/▽ 6.0	1	ML/Fill	Asphalt – 1.0”, aggregate – 7”, crushed rock
				2		Gray to brown sandy SILT, fill, damp
				3	SP/Fill	Brown medium SAND, trace of gravel, fill, damp
				4	ML/Fill	Gray sandy SILT, fill, damp 2.5 inches Buff colored cement kiln dust, fill, damp
0	4-foot core with liner	50		5	SW	Gray gravelly SAND, trace of silt, fill, damp
				6		Static water level measured at 6.0 feet
				7	SM/Fill	Ground water encountered during drilling at 6.0 feet Gray silty SAND, trace of gravel, fill, wet
				8		
						Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.2% CO2: 0.2% O2: 17.3% H2S: 0.0 ppmv



SOIL PROBE BORING RECORD

Boring ID TGP-10
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Third transect from north Sampling method 4 ft core with plastic liner
 Client City of Seattle easternmost probe Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 13, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
						Asphalt – 2.0”, aggregate –6”, crushed rock
0	4-foot core with liner	75		1	SW/Fill	Brown gravelly SAND, trace of silt, charred wood, fill, damp
				2	ML/Fill	Brown sandy SILT, trace of clay, glass, fill, damp
				3	SM/Fill	Tan silty SAND, fill, damp
				4		
				5		Wood fragments
0	4-foot core with liner	50		6	ML/Fill	Brown to black sandy SILT, glass, brick fragments, fill, damp
				7		
				8		Trace of gravel
			▼ 8.10			Static water level measured at 8.10 feet
			▽	9		Groundwater encountered at 9.0 feet
0	2-foot core with liner	100			SM/Fill	Black silty SAND, charred wood, fill, wet
				10	CH	Brown clayey SILT, wet
						Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.0% CO2: 0.5% O2: 19.9% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-11
 Total depth 12 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Third transect from north Sampling method 4 ft core with plastic liner
 Client City of Seattle middle probe Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 13, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description	
0	4-foot core with liner	95	▼ 7.0	1	SM/Fill	Asphalt – 1.0”, aggregate – 7.0”, crushed rock	
					ML/Fill	3-inch Brown silty SAND, trace of gravel, damp,	
				2	Fill	3-inch Gray sandy SILT, fill, damp	
					ML/Fill	Buff colored CKD, fill, damp	
				3		2-inch gravelly sandy SILT, fill, damp	
					SM/Fill	Gray gravelly SILT, fill, damp	
0	4-foot core with liner	100			4	Fill	Buff colored cement kiln dust, fill, damp
					SM/Fill	2-inch Brown silty SAND, fill, damp	
					Fill	Buff colored cement kiln dust, fill, damp	
				6			
				7		Static water level measured at 7.0 feet	
			8				
0	2-foot core with liner	No Recovery		9		No recovery	
				10		Groundwater encountered during drilling at 10.0 feet	
0	2-foot core with	50			OH	Black clayey SILT, organic material, sheen, wet	
				11			
				12			
						Set bar hole probe at 8.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.4% CO2: 0.0% O2: 21.1% H2S: 0.0 ppmv	

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-12
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Middle transect, fourth from easternmost location Sampling method 4 ft core with plastic liner
 Client City of Seattle Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 13, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	4-foot core with liner	100				Asphalt – 1.0”, aggregate – 6.0”, crushed rock
				1	GW/Fill	4-inch Dark Brown sandy GRAVEL, fill, dry
				2	SW/Fill	Tan gravelly SAND, 2-inch piece of wood, fill, dry
				3	Fill	Buff colored cement kiln dust, fill, dry
4						
0	4-foot core with liner	90		5	SM/Fill	Black silty SAND, wood fragments, fill, damp
				6	ML/Fill	Gray sandy SILT, fill, damp
				7		
0	2-foot core with liner	100		8	SM	Black silty SAND, organic material, damp
				9		Gray silty SAND, damp
				10	OH	Dark gray silty CLAY, damp
						<p>Groundwater not encountered during drilling. Set bar hole probe at 8 ft bgs. Backfilled borehole with bentonite chips.</p> <p>CH4: 2.1% CO2: 0.0% O2: 20.6% H2S: 0.0 ppmv</p>

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-13
 Total depth 8 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Third transect from north Sampling method 4 ft core with plastic liner
 Client City of Seattle westernmost probe Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 13, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	4-foot core with liner	100	▼ 3.5	1	Fill	Asphalt – 1.0”, aggregate – 5.0”, silty gravel
						Buff colored cement kiln dust, fill, dry
				2		
				3		
0	4-foot core with liner	100	▽ 6.0	4		Static water level measured at 3.5 feet damp
					SW/Fill	Gray gravelly SAND, damp
				5		
				6	SP/Fill	Gray medium SAND, fill, damp wet, ground water encountered during drilling at 6.0 feet
				7		
				8		
						Set bar hole probe at 3.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.0% CO2: 0.0% O2: 20.9% H2S: 0.0 ppmv



SOIL PROBE BORING RECORD

Boring ID TGP-14
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Fourth transect from north Sampling method 5 ft core with plastic liner
 Client City of Seattle second probe from easternmost location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	80	▼ 7.50	1		Asphalt – 1.0”, aggregate – 9.0”, crushed rock
				2	SW/Fill	Black gravelly SAND, fill, dry
				3		Gray gravelly SAND, fill, damp
				4	Fill ML/Fill	3-inch Buff colored cement kiln dust, fill, damp Black sandy SILT, brick fragments, fill, damp
				5		
				6		
0	5-foot core with liner	80		7	SM/Fill CH/Fill	2-inch Gray silty SAND, fill, damp Dark gray to black silty CLAY, organic material, fill, damp
				8	SM/Fill	Static water level measured at 7.50 feet Brown silty SAND, glass, plastic, brick fragm ents, fill, damp
				9	GW/Fill	Ground water encountered during drilling at 8.00 feet Gray to brown sandy GRAVEL, trace of silt, sheen, wet
				10	GM/Fill	Black sandy GRAVEL, trace of silt, sheen, wet
					Set bar hole probe at 3.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 4.9% CO2: 0.2% O2: 15.8% H2S: 0.0 ppmv	

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-15
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Fourth transect from north Sampling method 5 ft core with plastic liner
 Client City of Seattle Easternmost probe location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	75		1		Asphalt – 1”, aggregate – 8”, crushed rock
				2	ML/Fill	Light brown sandy SILT, fill, damp
				3		Gray-brown mottled sandy SILT, fill, damp
				4		
				5	OL/Fill	Dark brown-black clayey SILT, fill, organic material
0	5-foot core with liner	60	▼ 8.00	6	SM/Fill	Brown sandy SILT brick fragments, fill, damp Glass, with gravel
				7		
				8	ML/Fill	Dark brown-black gravelly SILT, organic material, wood fragments, Static water level measured at 8.00 feet moist
				9		Groundwater encountered during drilling at 9.5 feet.
				10	ML	Gray-brown sandy SILT, wet
			▽			Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 5.7% CO2: 4.6% O2: 4.8% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-16
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Fourth transect from north Sampling method 5 ft core with plastic liner
 Client City of Seattle Middle probe location _____ Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	80	▽ ▼ <u>9.6</u>	1		Asphalt – 1”, aggregate – 8”, crushed rock
				2	SW/Fill	Tan gravelly SAND, fill, damp
				3	Fill	Buff colored cement kiln dust, wood fragments, fill, damp
				4	GW/Fill	5” black sandy GRAVEL, fill, damp
				4	Fill	Buff colored cement kiln dust, fill, damp
				5	SM/Fill	Black sandy SILT, brick fragments, fil, wet Petroleum hydrocarbon odor
0	5-foot core with liner	60		6		
				7	ML/Fill	Dark brown clayey SILT, fill, damp Groundwater encountered during drilling at 7 feet.
				8	SM/Fill	Black sandy SILT, organic material, wood fragments, fill, wet
				9	OH	Gray clayey SILT, organic material, wet
			10		Static water level measured at 9.6 feet.	
					Set bar hole probe at 4.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 4.3% CO2: 0.0% O2: 9.8% H2S: 0.0 ppmv	

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-17
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Fourth transect from north Sampling method 5 ft core with plastic liner
 Client City of Seattle second probe from westernmost location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description	
0	5-foot core with liner	75	▼ 6.80 ▽			Asphalt – 1.0”, aggregate – 5.0”, sandy gravel	
				1	ML/Fill	Tan gravelly SILT, trace sand, fill, damp	
					Fill	Buff colored cement kiln dust, damp	
				2			
				3			
4							
				5	ML/Fill	2” tan sandy SILT, 4”Dark brown sandy SILT, fill, damp	
0	5-foot core with liner	60			6	OL/Fill	As above, organic material, sticks, wood and few brick fragments
					7		Static water level measured at 6.80 feet.
					8		
					Groundwater encountered during drilling at 9.0 feet		
				9	SM/Fill	Dark gray silty SAND, trace clay, fill, wet	
			10	ML	Brown clayey SILT, damp		
						Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 1.4% CO2: 0.0% O2: 21.3% H2S: 0.0 ppmv	

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-18
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Southern transect Sampling method 5 ft core with plastic liner
 Client City of Seattle second probe from easternmost location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	100		1		Asphalt – 1”, aggregate – 9”, sandy gravel
				2	GW/Fill	5” Brown-gray sandy GRAVEL, fill, damp 4” Black sandy GRAVEL, charred wood, fill, damp
				3	ML/Fill	Gray sandy SILT, trace gravel, damp
				4		
				5	SP/ML/Fill	Gray-brown sandy SILT, fill, damp 2” Gray medium SAND lens, fill
				6	ML/Fill	Gray sandy SILT, fill, damp
0	5-foot core with liner	90		7	SM/Fill	Black silty SAND, trace gravel, wood fragments, and glass, damp
				8		
				9		
				10	CH	
						<p>Groundwater not encountered during drilling. Set bar hole probe at 8.0 ft bgs. Backfilled borehole with bentonite chips.</p> <p>CH4: 2.9% CO2: 0.2% O2: 19.2% H2S: 0.0 ppmv</p>



SOIL PROBE BORING RECORD

Boring ID TGP-19
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Southern transect Sampling method 5 ft core with plastic liner
 Client City of Seattle Second probe from easternmost location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	100				Asphalt – 1”, aggregate – 6.0”, sandy gravel
				1	Fill	Buff colored cement kiln dust, fill, damp
				2		
				3		
				4		
				5		
0	5-foot core with liner	100		6	ML/Fill	4” lens of dark brown SILT, fill, damp
					Fill	Buff colored cement kiln dust, fill, damp
				7		
				8		
				9	OH	Cobbles, Black silty CLAY, organic material, damp Brown silty CLAY, organic material, damp
			10			
						Groundwater not encountered during drilling. Set bar hole probe at 6.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 4.2% CO2: 0.0% O2: 20.4% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-20
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Southern transect Sampling method 5 ft core with plastic liner
 Client City of Seattle Second probe from westernmost location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	100	▼ 5.4			Asphalt – 1”, aggregate – 4”, sandy gravel
				1	GP/Fill	4” Gray GRAVEL, fill, damp
					SW/Fill	4” Black gravelly SAND, fill, damp
				2	SM/Fill	Gray silty SAND, trace gravel, fill, damp
				3	Fill	Buff colored cement kiln dust, fill, damp
0	5-foot core with liner	80	▼ 5.4	4	SM/Fill	Gray-brown mottled gravelly SILT, fill, damp
				5		Groundwater encountered during at 5.0 feet.
				6		Gray sandy SILT, trace clay, fill, wet. Static water level measured at 5.4 feet
				7		
				8		Dark brown-black sandy SILT, damp
				9	CH	Gray silty CLAY, damp
				10	OH	Gray-brown clayey SILT, organic material, wood fragments
						Set bar hole probe at 3.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.9% CO2: 0.0% O2: 20.6% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-21
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Southern transect Sampling method 5 ft core with plastic liner
 Client City of Seattle westernmost probe location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
						Grass, topsoil
0	5-foot core with liner	70	▼ 4.95	1	GW/Fill	Brown sandy GRAVEL, fill, damp
				2		
				3	ML/Fill	Brown gravelly SILT, fill, damp Tan sandy SILT, damp
				4	Fill	3" Buff colored cement kiln dust, fill, damp
				4	ML/Fill	3" Brown sandy SILT, fill, damp
	SM/Fill	Gray silty SAND, fill, wet, groundwater encountered at 4 feet Static water level measured at 4.95 feet				
0	5-foot core with liner	80		6		
				7	CH	Gray-brown clayey SILT, damp
				8		
				9		
			10		Brown clayey SILT, damp	
						Set bar hole probe at 3.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.5% CO2: 0.1% O2: 20.8% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

HERRERA

Boring ID TGP-22
 Total depth 5 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe
 Project number 10-04850-000 Location Fourth transect from north Sampling method 5 ft core with plastic liner
 Client City of Seattle westernmost probe location Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	80	▼ 3.0			Asphalt – 1”, aggregate – 4”, sandy gravel
				1	GW/Fill	Brown sandy GRAVEL, fill, dry
				2	Fill	Buff colored cement kiln dust, fill, damp
				3		Static water level measured at 3.0 feet
				4	SW/Fill	Brown gravelly SAND, fill, damp, groundwater encountered at 4.0 feet.
			▽		ML/Fill	3” Light brown sandy SILT, fill, and 3” Black sandy SILT, fill, wet
				5	SP/Fill	Gray medium SAND, fill, wet
						Set bar hole probe at 2.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 0.0% CO2: 0.0% O2: 21.6% H2S: 0.0 ppmv



SOIL PROBE BORING RECORD

Boring ID TGP-23
 Total depth 15 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Northernmost probe on landfill Sampling method 5 ft core with plastic liner
 Client City of Seattle Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	70				Asphalt – 1”, aggregate – 4”, sandy gravel
				1	GW/Fill	4” Dark brown gravelly SAND, fill, dry Light brown gravelly SAND, fill, damp
				2		
				3		
				4	CL/Fill GC/Fill	6” Gray clayey SILT, trace gravel, fill, damp Black –gray clayey GRAVEL, crushed rock, fill
-	5-foot core with liner	NR		5	SM/Fill	Dark-brown silty SAND, glass and brick fragments, organic material, wood waste, fill
				6	NR	No Recovery
				7		
				8		
				9		
0	5-foot core with liner	6	▼ 12.00 ▽	10		No Recovery
				11		
				12		Static water level measured at 12.00 feet.
				13		
				14		Groundwater encountered during drilling at 14.5 feet
				15	GM/Fill	Black sandy GRAVEL, broken glass, fill, hydrocarbon odor, wet
						Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 4.8% CO2: 1.7% O2: 0.3% H2S: 0.0 ppmv

PID – photoionization detector



SOIL PROBE BORING RECORD

Boring ID TGP-24
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Middle probe located within Sampling method 5 ft core with plastic liner
 Client City of Seattle landfill Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
2.4	5-foot core with liner	60				Asphalt – 1.0”, aggregate – 4.0”, sandy gravel
				1	SM/Fill	Light brown gravelly SAND, fill, damp
				2		
				3		
				4	ML/Fill	4” Gray clayey SILT, fill
1.0	5-foot core with liner	30			SW/Fill	4” Black gravelly SAND, crushed rock, fill
				5	SM/Fill	4” Dark white specks, silty SAND, brick fragments, fill, damp
					SW/Fill	Black gravelly SAND, brick fragments, fill, damp
				6	Fill	4” Brick fragments, fill
				7	SM/Fill	4” Brown silty SAND, fill
				8	Fill	3” Black charred wood
	SM/Fill	3” Brown silty SAND, fill, damp				
	9					
	10					
						Groundwater not encountered during drilling. Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips. CH4: 4.2% CO2: 2.8% O2: 3.4% H2S: 0.0 ppmv



SOIL PROBE BORING RECORD

Boring ID TGP-25
 Total depth 10 feet
 Sheet 1 of 1

Project name South Park LF Drilling Contractor ESN Drilling method Push-probe rig
 Project number 10-04850-000 Location Southernmost probe located Sampling method 5 ft core with plastic liner
 Client City of Seattle Within landfill Air monitoring (Y/N) Yes
 HEC rep. Bruce Carpenter Date October 14, 2015 Instrument(s) PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	5-foot core with liner	80		1		Asphalt – 1.0”, aggregate – 9.0”, sandy gravel
				2	SW/Fill	Light brown gravelly SAND, fill, damp
				3		
				4	ML/Fill	Gray sandy SILT, fill, damp
				5	SW/Fill	Gray gravelly SAND, fill, damp
1.4	5-foot core with liner	75		6	ML/Fill	Gray sandy SILT, fill, dry
				7	SW/Fill	Black gravelly SAND, crushed rock, fill, dry
				8	SP/Fill	4” Buff colored SAND, fill 4” Orange-brown SAND, fill
				9	SW/Fill	Brown-black gravelly SAND, fill, damp
				10	Fill	Broken glass, nail, brick fragments, fill
						Groundwater not encountered during drilling. Set bar hole probe at 9.5 ft bgs. Backfilled borehole with bentonite chips. CH4: 4.6% CO2: 6.3% O2: 0.3% H2S: 0.0 ppmv



GAS PROBE BORING LOG

Probe ID: GP-24

Total depth: 10

Sheet 1 of 1

Project name: South Park LF Drilling contractor: Cascade Location: Kenyon Business Park between truck bays A1/A2, 14' E.
 Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter
 Client: SPU Sampling method: 4' probe sampler Date: 1/18/2011

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details		
	Hand dug 2 feet		1	SM		Asphalt/crushed rock	Concrete seal, 0'-1'		
								Brown, silty SAND, brick fragments, fill, damp	
	2-foot probe sample	100	2	Fill	ATD **	Buff colored cement kiln dust, fill, damp	3/4-inch diameter schedule 40 PVC casing, 0'-5'		
0			3						
	4-foot probe sample	100	4	Fill	ATD **	Buff colored cement kiln dust, fill, damp	Hydrated bentonite chips, 1'-4'		
			5						
0	4-foot probe sample	100	6	Fill	ATD **		#2/12 sand filter pack, 4'-10'		
			7						
	2-foot probe sample	No recovery	8	ML / Fill	7.0'	Black sandy SILT, brick fragments, 3-inch piece of rubber, fill, wet	3/4-inch diameter schedule 40 PVC 10-slot prepacked screen, 5'-10'		
-			9						
	2-foot probe sample	No recovery	10	ML / Fill	7.0'		PVC endcap		
			11						
			12			Bottom of boring at 10 feet below ground surface.			
			13						Soil vapors were measured in bore hole using GEM 2000 gas analyzer
			14						CH ₄ : 1.2%
			15						CO ₂ : 0.1%
			16						O ₂ : 19.5%

* Photoionization Detector

** ATD – at time of drilling



GAS PROBE BORING LOG

Probe ID: GP-25
 Total depth: 10'
 Sheet 1 of 1

Project name: South Park LF Drilling contractor: Cascade Location: Kenyon Business Park ~58' E. of truck bay A10
 Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter
 Client: SPU Sampling method: 4' probe sampler Date: 1/18/2011

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details		
	Hand dug 2 feet		1	SM	ATD ** 7.0'	Asphalt / crushed rock	Concrete seal, 0'-1'		
								Brown silty SAND, brick fragments, damp	
	2-foot probe sample	100	2	Fill			3/4-inch diameter schedule 40 PVC casing, 0'-5'		
									Buff colored cement kiln dust, damp, fill
0	2-foot probe sample	100	3	Fill			Hydrated bentonite chips, 1'-4'		
	4-foot probe sample	60	5	ML			#2/12 sand filter pack, 4'-10'		
									Brown sandy SILT, brick fragments, damp
0									Black silty SAND, concrete, wood, very damp, fill
	2-foot probe sample	100	7	SM / Fill		3/4-inch diameter schedule 40 PVC 10-slot prepacked screen, 5'-10'			
	2-foot probe sample	100	8	SP		PVC endcap			
								Black medium SAND, wet	
0	2-foot probe sample	100	9	MH					
								Gray-brown clayey SILT, organic material, wood, damp	
			10						
			11			Bottom of boring at 10 feet below ground surface.			
			12			Soil vapors were measured in borehole using GEM 2000 gas analyzer.			
			13			CH ₄ : 0.4%			
			14			CO ₂ : 0.1%			
			15			O ₂ : 20.4%			
			16			BAL: 79.1%			
						H ₂ S: 0.0 ppm			

* Photoionization Detector

** ATD – at time of drilling



Boring Log

Project Number
100166

Boring Number
GP-26

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev 16.10' NAVD88

Location: Seattle, WA

Driller/Method: Cascade Drilling / Direct Push Probe

Depth to Water (ft BGS) 8.5' BGS (ATD)

Sampling Method: Continuous Core

Start/Finish Date 3/8/2011

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
1	Concrete seal, 0'-1'						Moist, gray, sandy, very gravelly SILT (ML) with cobbles; poor recovery due to cobbles	1
2	3/4-inch diameter schedule 40 PVC casing, 0'-5'							2
3	Hydrated bentonite chips, 1'-4'	S-1		0.0				3
4								4
5	#2/12 sand filter pack, 4'-10'							5
6	3/4-inch diameter schedule 40 PVC 10-slot prepacked screen' 5'-10'							6
7		S-2		0.0			Moist, dark gray to black, SAND (SP); fine to medium sand	7
8								8
9	▽ 3/8/2011						Wet Iron oxide staining	9
10	PVC endcap						Bottom of boring at 10' below ground surface.	10
11							Soil vapors were measured using GEM 2000 gas analyzer:	11
12							CH4: 00.0% CO2: 01.8% O2: 18.8% BAL: 79.4% H2S: 0.0 ppm	12
13								13
14								14

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

○ No Recovery

▼ Static Water Level

Approved by: **JJS**

▬ Continuous Core

▽ Water Level (ATD)



GAS PROBE BORING LOG

Probe ID: GP-27
 Total depth: 14'
 Sheet 1 of 1

Project name: South Park LF Drilling contractor: Cascade Location: ~200' N. of GP-28 on 5th (E. side)
 Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter
 Client: SPU Sampling method: 4' probe sampler Date: 1/18/2011

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details
	Hand dug 2 feet		1			Gravel/fill	Concrete seal, 0'-1'
			2			Olive gray sandy SILT, tr. clay, damp	3/4-inch diameter schedule 40 PVC casing, 0'-9'
0	2-foot probe sample	100	3	ML			Hydrated bentonite chips, 1'-7'
			4				
0	4-foot probe sample	100	5	Fill			
			6			Concrete fill	
			7			Dark brown sandy SILT, glass, concrete, brick fragments, fill, damp	
			8	ML / Refuse		Refuse	#2/12 sand filter pack, 7'-14'
0	4-foot probe sample	100	9				
			10				3/4-inch diameter schedule 40 PVC 10-slot prepacked screen, 9'-14'
			11				
			12	SP	ATD **	Black medium SAND, damp wet	
0	2-foot probe sample	75	13				
			14	MH		Brown clayey SILT, damp	PVC endcap
			15			Bottom of boring at 14 ft below ground surface Soil vapors were measured in borehole using GEM 2000 gas analyzer.	
			16			CH ₄ : 0.6% CO ₂ : 0.9% O ₂ : 18.9% BAL: 79.6% H ₂ S: 0.0 ppm	

* Photoionization Detector

** ATD – at time of drilling



GAS PROBE BORING LOG

Probe ID: GP-28
 Total depth: 12'
 Sheet 1 of 1

Project name: South Park LF Drilling contractor: Cascade Location: ~200' N. of GP-27 on 5th (E. side)
 Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter
 Client: SPU Sampling method: 4' probe sampler Date: 1/17/2011

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details
	Hand dug, 2 feet		1			Grass/topsoil	Concrete seal, 0'-1'
			2	SW / Fill		Brown gravelly SAND, tr. silt, damp, several brick fragments, fill material	3/4-inch diameter schedule 40 PVC casing, 0'-7'
0	2-foot probe sample	100	3			Buff colored cement kiln dust, damp, fill material	Hydrated bentonite chips, 1'-5'
			4				
0	4-foot probe sample	75	5	Fill			#2/12 sand filter pack, 5'-12'
			6				
			7				
			8	ML / Fill		Wood – 4 inches, dark-gray-brown clayey SILT, brick fragments, glass 1 inch, fill material, piece of white ceramic material	3/4-inch diameter schedule 40 PVC 10-slot prepacked screen, 7'-12'
0	2-foot probe sample	100	9				
			10	ADT **			
0	2-foot probe sample	100	11	SP	9.4'	Very dark brown-black medium SAND, wet	
			12				PVC endcap
			13			Bottom of boring at 12 feet below ground surface	
			14			Soil vapors were measured in borehole using GEM 2000 gas analyzer.	
			15			CH ₄ : 0.3%	
						CO ₂ : 0.1%	
						O ₂ : 20.5%	
						BAL: 79.1%	
						H ₂ S: 0.0 ppm	
			16				

* Photoionization Detector

** ADT – at time of drilling



GAS PROBE BORING LOG

Probe ID: GP-29
 Total depth: 10'
 Sheet 1 of 1

Project name: South Park LF Drilling contractor: Cascade Location: ~220' N. of GP-30 on E. side of 5th
 Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter
 Client: SPU Sampling method: 4' probe sampler Date: 1/17/2011

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details	
	Hand dug, 2 feet		1		ADT ** 8.0'	Grass/topsoil	Concrete seal, 0'-1' 3/4-inch diameter schedule 40 PVC casing, 0'-5' Hydrated bentonite chips, 1'-4' #2/12 sand filter pack, 4'-10' 3/4-inch diameter schedule 40 PVC 10-slot prepacked screen, 5'-10' PVC endcap	
			2	SM		Brown silty SAND, damp		
0	2-foot probe sample	100	3	SM / Refuse		Brown silty SAND, broken glass, brick fragments, refuse, damp		
			4			Very dark brown to black, gravelly SAND, brick fragments, glass, damp		
0	4-foot probe sample	25	5	SW / Refuse		ADT ** 8.0'		Black gravelly SAND, brick fragments, wood, piece of a sneaker, refuse, damp
			6					
			7					
			8					
0	2-foot probe sample	100	9	SP		Wood, window/door screen, fill, wet		
			10			Black medium SAND, wet		
			11		Bottom of boring at 10 ft. below ground surface			
			12		Soil vapors were measured in borehole using GEM 2000 gas analyzer.			
			13		CH ₄ : 0.3%			
					CO ₂ : 0.1%			
			14		O ₂ : 20.5%			
					BAL: 79.1%			
			15		H ₂ S: 0.0 ppm			
			16					

* Photoionization Detector

** ADT – at time of drilling



GAS PROBE BORING LOG

Probe ID: GP-30

Total depth: 10'

Sheet 1 of 1

Project name: South Park LF Drilling contractor: Cascade Location: NE corner of Sullivan and 5th
 Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter
 Client: SPU Sampling method: 4' probe sampler Date: 1/17/2011

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details
	Hand dug 2 feet		1	SM	ADT ** 3.8'	Grass/topsoil	Concrete seal, 0'-1'
			2			Brown fine silty SAND, tr. gravel, damp	
0	2-foot probe sample	80	3				Hydrated bentonite chips, 1'-4'
		4					
0	4-foot probe sample	50	5	SW	3.8'	Black silty SAND, wet	#2/12 sand filter pack, 4'-10'
			6				
			7				
	2-foot probe sample	50	8	MH	3.8'	Black fine to medium SAND, wet	3/4-inch diameter schedule 40 PVC 10-slot prepacked screen, 5'-10'
0			9				
			10			Dark brown-gray clayey SILT, damp	PVC endcap
			11			Bottom of boring at 10 ft. below ground surface	
			12			Soil vapors were measured in borehole using GEM 2000 gas analyzer	
			13			CH ₄ : 0.3%	
			14			CO ₂ : 0.1%	
			15			O ₂ : 20.5%	
			16			BAL: 79.1%	
						H ₂ S: 0.0 ppm	

* Photoionization Detector

** ADT – at time of drilling



GAS PROBE BORING LOG

Probe ID: GP-31
 Total depth: 10'
 Sheet 1 of 1

BCM-944 (Ecology Well Tag)

Project name: South Park LF Drilling contractor: Cascade Location: SW corner of Sullivan and 5th
 Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter
 Client: SPU Sampling method: 4' probe sampler Date: 1/17/2011

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details
	Hand dug, 2 feet		1			Asphalt Crushed rock, fill	Concrete seal, 0'-1'
			2			Brown medium SAND, trace gravel, damp	3/4-inch diameter schedule 40 PVC casing, 0'-5'
0	2-foot probe sample	75	3				Hydrated bentonite chips, 1'-4'
			4				
			5	SP	ADT **		#2/12 sand filter pack, 4'-10'
			6		4.3'	Brown medium SAND, trace gravel, wet	3/4-inch diameter schedule 40 PVC 10-slot prepacked screen, 5'-10'
0	4-foot probe sample	50	7				
			8	ML		Brown-black gravelly SILT, wet	
			9	GP		Gray to black pea gravel, fill, wet	
0	2-foot probe sample	100	10	ML		Dark brown gravelly SILT, wet	PVC endcap
			11			Bottom of boring at 10 feet below ground surface	
			12			Soil vapors were measured in borehole using GEM 2000 gas analyzer.	
			13			CH ₄ : 0.3%	
			14			CO ₂ : 0.1%	
			15			O ₂ : 20.5%	
			16			BAL: 79.1%	
						H ₂ S: 0.0 ppm	

* Photoionization Detector

** ADT – at time of drilling



Boring Log

Project Number
100166

Boring Number
GP-32

Sheet
1 of 1

Project Name: South Park Landfill

Ground Surface Elev 13.22' NAVD88

13.22' NAVD88

Location: Seattle, WA

Driller/Method: Cascade Drilling, LP / Direct Push Probe

Depth to Water

1.74' BGS

Sampling Method: Continuous Core

Start/Finish Date

12/29/2010

Depth / Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	Depth (ft)
1	Concrete seal, 0'-1'	○ S-1				Asphalt	Asphalt. Cored and hand dug to 2' to clear asphalt and soil to set monument.	1
2	3/4-inch diameter schedule 40 PVC casing, 0'-5'					Wet, gray, gravelly SAND (SP); fine to medium sand.		2
3	▽ 12/29/2010 Hydrated bentonite chips, 1'-4'	S-2		0.0		Wet, dark brown, organic SILT (OL).		3
4						Wood and white ceramic debris		4
5	#2/12 sand filter pack, 4'-10'					Green glass shards.		5
6	3/4-inch diameter schedule 40 PVC 10-slot prepacked screen' 5'-10'			7.0		Wood debris		6
7		S-3				Wet, white and black layered, unknown fill material (FILL); rotton egg odor.		7
8				50.3		Moist, dark brown, slightly clayey SILT (ML); with abundant organics.		8
9				15.0		Bottom of boring at 10' below ground surface.		9
10	PVC endcap					Soil vapors were measured using GEM 2000 gas analyzer:		10
11						CH4: 00.1%		11
12						CO2: 00.1%		12
13						O2: 19.8%		13
14						BAL: 80.1%		14
						H2S: 0.0 ppm		

Sampler Type:

PID - Photoionization Detector (Headspace Measurement)

Logged by: **AET**

○ No Recovery

▼ Static Water Level

Approved by: **JJS**

▬ Continuous Core

▽ Water Level (ATD)

Historical Monitoring Wells

REFERENCE: BASE MAP AND TOPOGRAPHY BY DEGRESS AERIAL MAPPING, 5/1/97

LEGEND

Landfill Boundary
 (Approximate, based on Air
 photo interpretation and soil
 borings).

King County Property Line

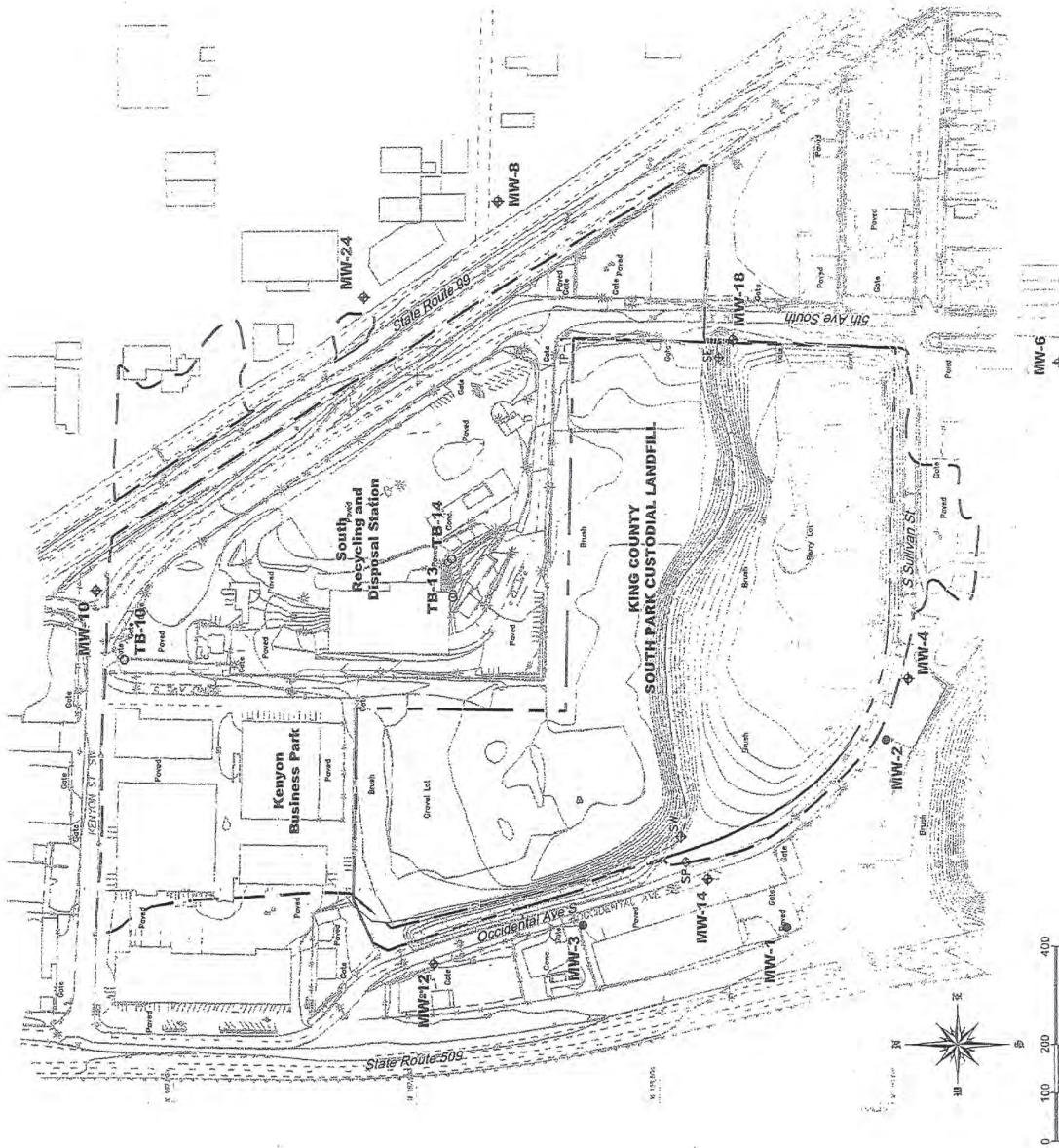
Ditch (Approximate, based on
 basemap and air photo).

Monitoring Wells Installed by GeoEngineers in October 1991

Piezometers Installed by City of Seattle in 1989 (TB-10) and
 1992 (TB-13, 14)

Monitoring Wells Installed by AESI in December 1988 &
 September 1999

REFERENCE: BASE MAP AND TOPOGRAPHY
 DERIVED FROM A VARIETY OF SOURCES AND
 SHOULD BE FIELD VERIFIED.



MONITOR WELL NO. MW-1 AKA MW-01

WELL SCHEMATIC

Casing Elevation (ft.): 101.41
 Casing Stickup (ft.): -0.22

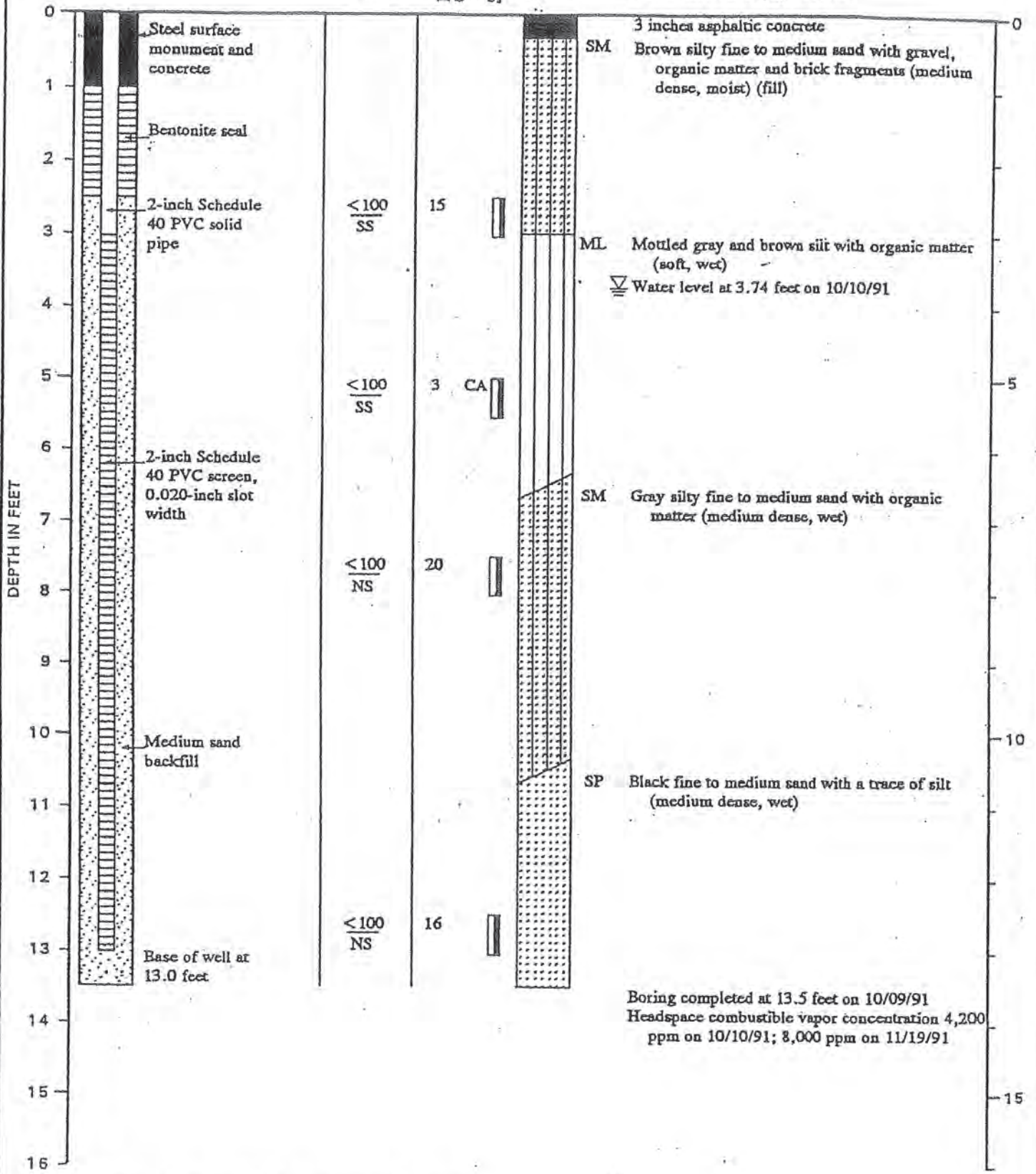
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 101.63



Note: See Figure A-2 for explanation of symbols

Boring completed at 13.5 feet on 10/09/91
 Headspace combustible vapor concentration 4,200 ppm on 10/10/91; 8,000 ppm on 11/19/91

WELL SCHEMATIC

Casing Elevation (ft.): 99.23
 Casing Stickup (ft.): -0.36

Vapor
 Conc. (ppm)
 Sheca

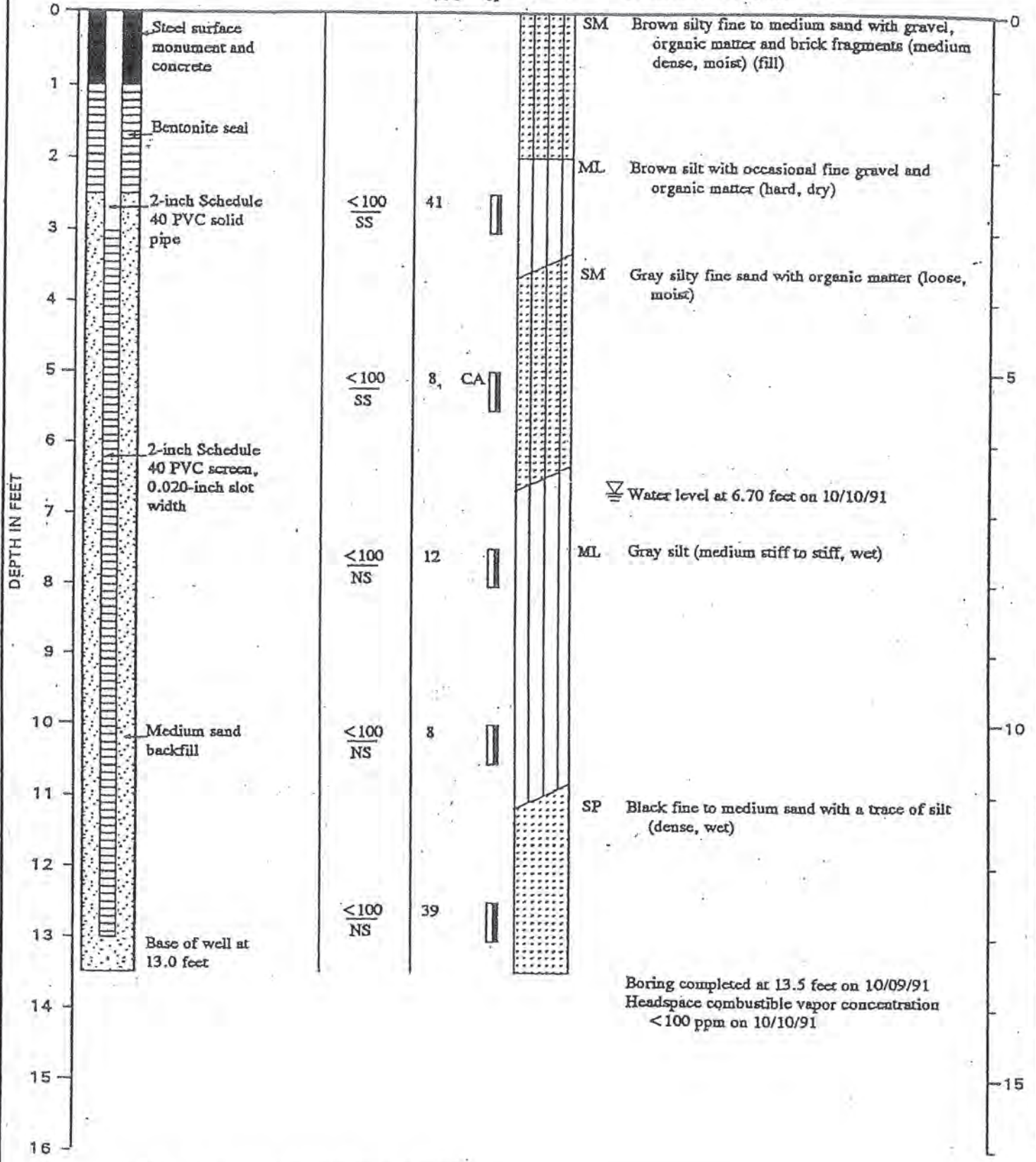
Blow
 Count

Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 99.59



Note: See Figure A-2 for explanation of symbols

MONITOR WELL NO. MW-3

A-K-A

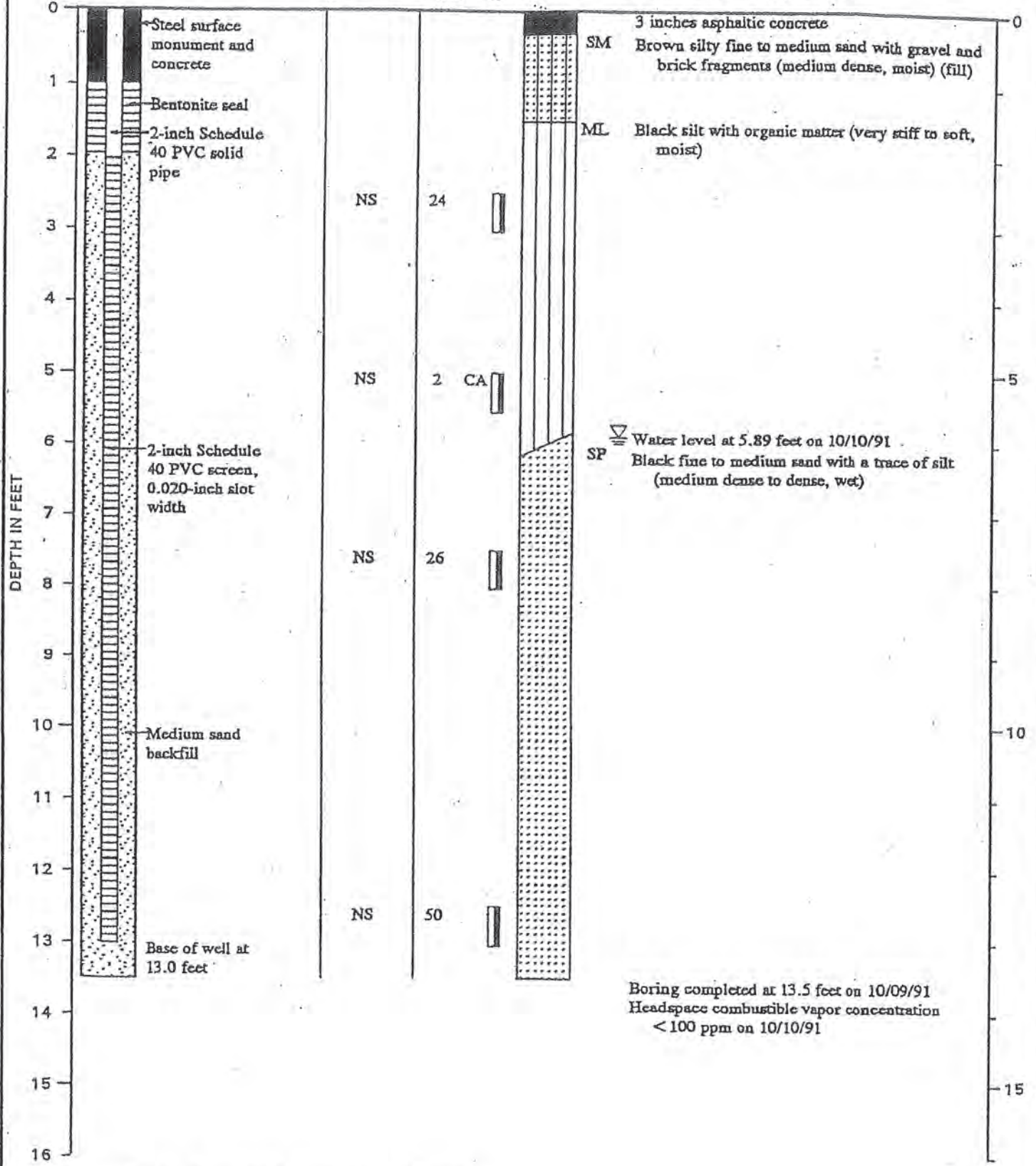
MW-03

WELL SCHEMATIC

Casing Elevation (ft.): 100.68
 Casing Stickup (ft.): -0.23

DESCRIPTION

Surface Elevation (ft.): 100.91



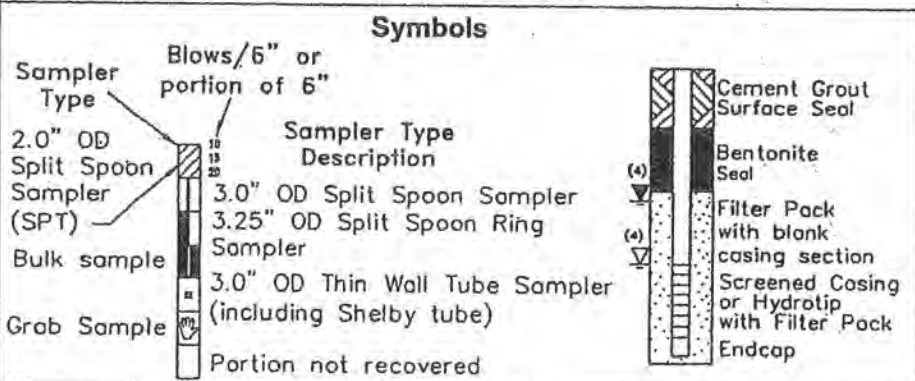
Note: See Figure A-2 for explanation of symbols

Boring completed at 13.5 feet on 10/09/91
 Headspace combustible vapor concentration < 100 ppm on 10/10/91

Coarse Grained Soils - More than 50% ⁽¹⁾ Retained on Number 200 Sieve	Gravels - More than 50% of Coarse Fraction	Little to no Fines	GW	Well-graded gravel and gravel with sand, little to no fines	Terms Describing Relative Density and Consistency Density SPT⁽²⁾ blows/foot Coarse-Grained Soils Very Loose 0 to 4 Loose 4 to 10 Medium Dense 10 to 30 Dense 30 to 50 Very Dense >50 Consistency SPT⁽²⁾ blows/foot Fine-Grained Soils Very Soft 0 to 2 Soft 2 to 4 Medium Stiff 4 to 8 Stiff 8 to 15 Very Stiff 15 to 30 Hard >30 Test Symbols G = Grain Size M = Moisture Content A = Atterberg Limits C = Chemical DD = Dry Density K = Permeability
			GP	Poorly-graded gravel and gravel with sand, little to no fines	
			GM	Silty gravel and silty gravel with sand	
	Sands - 50% or More of Coarse Fraction Passes Number 4 Sieve	Little to no Fines	GC	Clayey gravel and clayey gravel with sand	
			SW	Well-graded sand and sand with gravel, little to no fines	
			SP	Poorly-graded sand and sand with gravel, little to no fines	
	With Fines	With Fines	SM	Silty sand and silty sand with gravel	
			SC	Clayey sand and clayey sand with gravel	
			ML	Silt, sandy silt, gravelly silt, silt with sand or gravel	
			CL	Clay of low to medium plasticity, silty clay, sandy or gravelly clay, lean clay with sand or gravel	
Fine Grained Soils - 50% ⁽¹⁾ or More Passes Number 200 Sieve	Sils and Clays Liquid Limit Less than 50	OL	Organic clay or silt of low to medium plasticity		
		MH	Elastic silt, clayey silt, silt with micaceous or diatomaceous fine sand or silt		
	Sils and Clays Liquid Limit 50 or More	CH	Clay of medium to high plasticity, sandy or gravelly clay, fat clay with sand or gravel		
		OH	Organic clay or silt of medium to high plasticity		
Highly Organic Soils		PT	Peat, muck and other highly organic soils		

Component Definitions	
Descriptive Term	Size Range and Sieve Number
Boulders	Larger than 12"
Cobbles	3" to 12"
Gravel	3" to No. 4 (4.75 mm)
Coarse Gravel	3" to 3/4"
Fine Gravel	3/4" to No. 4 (4.75 mm)
Sand	No. 4 (4.75 mm) to No. 200 (0.075 mm)
Coarse Sand	No. 4 (4.75 mm) to No. 10 (2.00 mm)
Medium Sand	No. 10 (2.00 mm) to No. 40 (0.425 mm)
Fine Sand	No. 40 (0.425 mm) to No. 200 (0.075 mm)
Silt and Clay	Smaller than No. 200 (0.075 mm)

(3) Estimated Percentage		Moisture Content
Component	Percentage by Weight	
Trace	<5	Dry- Absence of moisture, dusty, dry to the touch
Few	5 to 10	Slightly Moist- Perceptable moisture
Little	15 to 25	Moist- Damp but no visible water
Some	30 to 45	Very Moist- Water visible but not free draining
With Non-primary Coarse-grained constituents ≥ 15%		Wet- Visible free water, usually from below water table
Fine Content between 5% and 15%		



- (1) Percentage by Dry Weight
- (2) (SPT) Standard Penetration Test (ASTM D-1586)
- (3) In General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)
- (4) Depth of Groundwater
 - ▽ ATD = At time of drilling
 - ▽ Static water level (date)

Classification of soils in this report is based on visual field and/or laboratory observations, which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual and/or laboratory classification methods of ASTM D-2487 and D2488 were used as an identification guide for the Unified Soil Classification System.

Project Number
BV97041

Well Number

MW-4

AKA

MW-04

Sheet
1 of 3

Project Name South Park Custodial Landfill

Surface Elevation 20.15' NAVD 88

Location King County

Water Depth (ft bgs) 7

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Start Date December 1, 1998

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Finish Date December 2, 1998

Depth feet	Well Construction	Methane	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
0 - 1	Locking 8" steel monument						FILL SANDY SILT; brown; some rounded gravel and brick; moist, firm; no odors or discoloration (ML)
1 - 2	Concrete seal			4 6 6			
2 - 5	Bentonite chip seal	0%		3 3 4			
5 - 7	7 ft. bgs ATD 12/2/98, Auger casing at 37.5 ft.						SAND with SILT; brown; moist, loose (SM)
7 - 10	9.68 ft. bgs 12/10/98						- wood debris
10 - 11	2" ID SCH 40 PVC Riser	0%		31 50			- wood fiber SILT; dark gray to black; brick with wood fibers; hard to firm; petroleum-like odor, wet, sheen on sample (ML)
11 - 15	Bentonite slurry, 30% by weight	0%		5 11 10			
15 - 18				5 6 4			
18 - 20		0%		4 6 6			RECENT ALLUVIUM SILT; brown; some wood debris; moist, firm (ML)

Sampler Type (ST):

- 3" Split Spoon Sampler
- No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
- ∇ ∇ Water Level (Date of Measurement)

Logged by: RSB

Approved by: JJS

Project Number
BV97041

Well Number

MW-4

A.K.A.

MW-04

Sheet
2 of 3

Project Name South Park Custodial Landfill

Surface Elevation 20.15' NAVD 88

Location King County

Water Depth (ft bgs) 7

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Start Date December 1, 1998

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Finish Date December 2, 1998

Depth feet	Well Construction	Methane	ST	Blows/6"	Sample ID	Mil. Graphic	Description
11				50			SAND; dark gray to black; fine to medium sand, interbedded silt laminae, some wood; wet, medium dense to very dense (SM)
50/5"							
5	Bentonite slurry, 30% by weight	0%		6			
6							
6							
25							
		0%		4			
				21			
				50/4"			
30							
		0%		5			
				21			
				16			
							- grades to gray sandy silt
35							
	Bentonite chips			14			
				42			
				36			
	Filter Pack, 10 x 20 Colorado Silica Sand	0%		24			
				28			
				21			- grades to fine gray sandy silt

Sampler Type (ST):

- 3" Split Spoon Sampler
- No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
- Water Level (Date of Measurement)

Logged by: RSB

Approved by: JJS

Figure No. A-1

Project Number
BV97041

Well Number

MW-4

AKA

MW-04

Sheet
3 of 3

Project Name South Park Custodial Landfill

Location King County

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Surface Elevation 20.15' NAVD 88

Water Depth (ft bgs) 7

Start Date December 1, 1998

Finish Date December 2, 1998

Depth feet	Well Construction	Methane	ST	Blows/6"	Sample ID	Mtl. Graphic	Description
							- dark gray, fine to medium sand with silt laminae
	Filter Pack, 10 x 20 Colorado Silica Sand	0%		22 36 30			
45	Well Screen 2" ID SCH 40 PVC, 0.01" slot size						
		0%		8 12 17			ESTUARINE DEPOSIT SILTY SAND; dark gray; fine to medium silty sand with shell fragments; medium dense, wet
50	Threaded end cap, 2" ID SCH 40 PVC Bottom of boring and well at 50.59'						Bottom of boring at depth 50.59 feet. Monitoring well installed to depth 50.59 feet. Soil sampler driven using 140-pound hammer falling 30-inches.
55							

Sampler Type (ST):

- 3" Split Spoon Sampler
- No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
- ∇ ∇ Water Level (Date of Measurement)

Logged by: **RSB**

Approved by: **JJS**

Project Number
 BV97041

Well Number

MW-6

AKA

MW-06

 Sheet
 1 of 3

 Project Name **South Park Custodial Landfill**

 Location **King County**

 Drilling Method **Hollow Stem Auger 10.5" OD/6" ID**

 Sampling Method **3" diameter, Split Spoon Sampler, 140 lb hammer**

 Surface Elevation **17.35' NAVD 88**

 Water Depth (ft bgs) **11.6**

 Start Date **December 3, 1998**

 Finish Date **December 3, 1998**

Depth feet	Well Construction	Methane	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
	Locking, 8" steel monument						FILL
	Concrete seal						GRAVEL; angular (GP) SILT; brown; trace gravel, some fine to medium sand; moist, soft; no odors or discolorations (ML)
	Bentonite chip seal	0%		5 4 5			SILT; gray/brown; trace gravel; very moist, high plasticity, firm; no odors or discoloration (ML)
5				3 4 7			
	7.97 ft. bgs 12/10/98 Bentonite slurry, 30% by weight	0%		3 4 8			
10				3 3 7			RECENT ALLUVIUM SILT; gray; very moist, high plasticity, firm; no odor or discolorations (ML)
	11.6 ft. bgs ATD 12/3/98	0%		3 4 6			
15				5 9 31			
	2" ID SCH 40 PVC Riser	0%		4 11 30			SAND; dark gray to black; fine to medium, trace silt; moist, medium dense to dense; no odors or discolorations, wet (SP)

Sampler Type (ST):

- 3" Split Spoon Sampler
- No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
- ▽▽ Water Level (Date of Measurement)

 Logged by: **RSB**

 Approved by: **JJS**

 Figure No. **A-2**

Project Number
BV97041

Well Number

MW-6

AKA

MW-06

Sheet
2 of 3

Project Name South Park Custodial Landfill

Location King County

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Surface Elevation 17.35' NAVD 88



Water Depth (ft bgs) 11.6

Start Date December 3, 1998

Finish Date December 3, 1998

Depth feet	Well Construction	Methane	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
	Bentonite slurry, 30% by weight	0%		6 26 50/5"			
		0%		14 22 34			
25	Bentonite chips						
		0%		14 33 50			SAND; black; fine to medium, with occasional light gray silt laminations and wood debris, dense (SP)
30							
	Filter Pack, 10 x 20 Colorado silica sand	0%		5 23 46			
35	Well screen 2" ID SCH 40 PVC, 0.01" slot size						
		0%		5 14 35			
	Threaded end cap 2" ID						

Sampler Type (ST):

-  3" Split Spoon Sampler
-  No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
- ∇ ∇ Water Level (Date of Measurement)

Logged by: **RSB**



Approved by: **JJS**


Figure No **A-2**

Project Name **South Park Custodial Landfill** Surface Elevation **17.35' NAVD 88**
 Location **King County** Water Depth (ft bgs) **11.6**
 Drilling Method **Hollow Stem Auger 10.5" OD/6" ID** Start Date **December 3, 1998**
 Sampling Method **3" diameter, Split Spoon Sampler, 140 lb hammer** Finish Date **December 3, 1998**

Depth feet	Well Construction	Methane	ST	Blows/6"	Sample ID	Mil. Graphic	Description
	Filter Pack, 10 x 20 Colorado Silica Sand						
		0%		10 10 12			SILT; gray, moist, stiff, high plasticity (ML)
45	Bentonite chips						
		0%		7 7 17			
50							Bottom of boring at depth 50 feet. Monitoring well installed to depth of 40 feet. Soil samples driven using 140-lb hammer falling 30 inches.
55							

August 16, 1999
 SPARKMW SPARKMW.C

Sampler Type (ST):
 3" Split Spoon Sampler
 No Recovery

Lab Tests:
 C - Chemical Properties
 P - Permeability
 M - Moisture Content
 Water Level (Date of Measurement)

Logged by: **RSB**
 Approved by: **JJS**

Figure No. **A-2**

Project Number
BV97041

Well Number
MW-8 AKA

Sheet
MW-08 1 of 3

Project Name South Park Custodial Landfill

Location King County

Drilling Method Hollow Stem Auger, 10.5" OD/6" ID

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Surface Elevation 12.88' NAVD 88

Water Depth (ft bgs) 4.5

Start Date December 7, 1998

Finish Date December 8, 1998

Depth feet	Well Construction	Methane	ST	Blows/6"	Sample ID	M.I. Graphic	Description
0 - 1	Locking 8" steel monument						FILL
1 - 2	Concrete seal						GRAVEL; gray; angular (GP)
2 - 5	Bentonite chips 4.5 ft. bgs ATD 12/8/88, casing at 47.5 ft. bgs 5.02 ft. bgs 12/10/98	0%		16 16 15			SILTY SANDY GRAVEL; brown-gray; subrounded to 1-inch diameter; moist, medium dense; no odors or discolorations (GM)
5 - 6				3 2 6			SILTY SANDY GRAVEL; brown; wet, very loose; no odors or discoloration (GM)
6 - 8		0%		3 2 5			SAND; dark brown; some silt and gravel; wet, very loose to loose; no odors or discoloration (SP)
8 - 10				4 4 6			
10 - 12				5 8 10			RECENT ALLUVIUM SILTY SAND; gray; fine-grained; wet, loose; no odors or discoloration (SM)
12 - 14	2" ID SCH 40 PVC Riser	0%		7 5 18			
14 - 16	Bentonite slurry 30% by weight	0%		5 14 19			SAND; black; fine to medium grained, trace silt and wood; wet, medium dense; no odors or discolorations (SP)

Sampler Type (ST):
 3" Split Spoon Sampler
 No Recovery

Lab Tests:
 C - Chemical Properties
 P - Permeability
 M - Moisture Content
 ∇ ∇ Water Level (Date of Measurement)

Logged by: RSB
 Approved by: JJS

Figure No. A-3

Project Number
BV97041

Well Number

MW-8

AKA

MW-08

Sheet
2 of 3

Project Name South Park Custodial Landfill

Location King County

Drilling Method Hollow Stem Auger, 10.5" OD/6" ID






Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Surface Elevation 12.88' NAVD 88



Water Depth (ft bgs) 4.5

Start Date December 7, 1998


Finish Date December 8, 1998

Depth feet	Well Construction	Methane	S T	Blows/ 6"	Sample ID	M.I. Graphic	Description
12	Bentonite slurry, 30% by weight	0%		12			SAND; black; fine to medium grained, trace silt and wood; wet, medium dense; no odors or discolorations (SP)
22							
24							
7	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0%		7			
10							
14							
11	Filter pack, 10 x 20 Colorado silica sand	0%		11			
17							
21							
14	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0%		14			
24							
33							
12	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0%		12			
17							
14							

Sampler Type (ST):

-  3" Split Spoon Sampler
-  No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
-  Water Level (Date of Measurement)

Logged by: **RSB**

Approved by: **JJS**

Figure No. **A-3**

SPARKMW, SPARKMW/C August 18, 1999

Project Number
BV97041

Well Number

MW-8

AKA

MW-08

Sheet

3 of 3

Project Name South Park Custodial Landfill

Surface Elevation 12.88' NAVD 88

Location King County

Water Depth (ft bgs) 4.5

Drilling Method Hollow Stem Auger, 10.5" OD/6" ID

Start Date December 7, 1998

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Finish Date December 8, 1998

Depth feet	Well Construction	Methane	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
45	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0%		5 12 24			SILTY SAND; black; fine grained; wet, medium dense; no odors or discolorations (SM)
	Threaded end cap, 2" ID SCH 40 PVC						
	Bentonite chips	0%		5 11 39			SAND; black; some silt; wet, medium dense (SP)
50							Bottom of boring at depth 49 feet. Monitoring well installed to depth 45.59 feet. Soil sampler driven using 140-pound hammer falling 30-inches.
55							

Sampler Type (ST):

- 3" Split Spoon Sampler
- No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
- Water Level (Date of Measurement)

Logged by: **RSB**

Approved by: **JJS**

Figure No. **A-3**

Project Number
BV97041

Well Number
MW-10

Sheet
1 of 3

Project Name South Park Custodial Landfill

Surface Elevation 17.7' NAVD 88

Location King County

Water Depth (ft bgs) 9

Drilling Method Hollow Stem Auger, 10.5" OD, 6" ID

Start Date December 9, 1998

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Finish Date December 9, 1998

Depth feet	Well Construction	Methane	S T	Blows/ 6"	Sample ID	MU. Graphic	Description
	Locking 8" steel monument						FILL
	Concrete seal						SAND; fine to medium grained, trace silt; moist, loose; no odors or discolorations (SP)
	Bentonite chips	0%		5 10 11			
5				4 3 10			RECENT ALLUVIUM
							SILT; gray; with wood debris with roots; moist, firm, low plasticity; no odors or discolorations (ML)
		0%					SAND; fine to medium grained, trace silt; moist, medium dense; no odors or discolorations (SP)
	9 ft. bgs ATD 12/9/98						
	9.64 ft. bgs 12/10/98						
10							
							SILT; gray-brown; with burnt woody debris; moist, firm (ML)
	2" ID SCH 40 PVC Riser	0%					SILTY SAND; gray; fine grained, with wood debris; wet, loose to medium dense (SM)
15							
	Bentonite slurry, 30% by weight	0%					
							SAND; black; fine to medium grained; wet, loose to medium dense (SP)

SPARKMW SPARKMW.GE just 18, 1999

Sampler Type (ST):
 3" Split Spoon Sampler
 No Recovery

Lab Tests:
 C - Chemical Properties
 P - Permeability
 M - Moisture Content
 ▽ ▽ Water Level (Date of Measurement)

Logged by: RSB
 Approved by: JJS

Figure No. A-4

Project Number
BV97041

Well Number
MW-10

Sheet
2 of 3

Project Name South Park Custodial Landfill

Location King County

Drilling Method Hollow Stem Auger, 10.5" OD, 6" ID

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Surface Elevation 17.7' NAVD 88



Water Depth (ft bgs) 9

Start Date December 9, 1998


Finish Date December 9, 1998

Depth feet	Well Construction	Methane	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
				5 5 5			SAND; black; fine to medium grained; wet, loose to medium dense (SP)
	Bentonite slurry, 30% by weight	0%		8 22 36			
25							
		0%		5 10 14			
30	Bentonite chips						
		0%		10 25 39			SAND; black; with gray silt interbeds to 1.5 cm and wood debris; wet, loose to medium dense (SP)
35	Filler pack, 10 x 20 Colorado silica sand						
	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0%		6 10 14			

Sampler Type (ST):

-  3" Split Spoon Sampler
-  No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
-  Water Level (Date of Measurement)

Logged by: **RSB**

Approved by: **JJS**

Figure No. **A-4**

Project Number
BV97041

Well Number
MW-10

Sheet
3 of 3

Project Name South Park Custodial Landfill

Surface Elevation 17.7' NAVD 88

Location King County



Water Depth (ft bgs) 9

Drilling Method Hollow Stem Auger, 10.5" OD, 6" ID



Start Date December 9, 1998

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer


Finish Date December 9, 1998

Depth feet	Well Construction	Methane	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
45	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0%		7 8 36			SAND; black; trace silt; wet, medium dense (SP)
	Threaded end cap, 2" ID SCH 40 PVC						SANDY SILT; dark gray; very moist, stiff, low plasticity (ML)
	Filter pack, 10 x 20 Colorado silica sand	0%		7 12 31			
50							Bottom of boring at depth 49 feet. Monitoring well installed to depth 45 feet. Soil sampler driven using 140-pound hammer falling 30-inches.
55							

Sampler Type (ST):

-  3" Split Spoon Sampler
-  No Recovery

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content
-  Water Level (Date of Measurement)

Logged by: **RSB**

Approved by: **JJS**

Figure No. **A-4**

Project Number
BV97041

Well Number
MW-12

Sheet
1 of 1

Project Name South Park Custodial Landfill

Location Seattle, Washington

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop

Surface Elevation 19.11




Water Depth (ft bgs) 7.34

Start Date September 20, 1999

Finish Date September 20, 1999

Depth feet	Well Construction	Methane %	S	T	Blows/ 6"	Sample ID	Mil. Graphic	Description
	Locking, 8" Steel Monument							FILL
	Concrete seal							Firm, moist; brown and tan mottled SILT
	Bentonite chips	0			3 4 4	S-1		
5	6.5 ft bgs ATD, 9/20/99, casing at 7.5 ft bgs	0			4 4 3	S-2		RECENT ALLUVIUM
	7.34 ft bgs, 10/14/99	0			2 6 7	S-3		Loose, moist; red-brown SAND; silty interbeds, sand fine to coarse, red grains angular
10	Filter pack, 10x20 Colorado silica sand							-grades medium dense, wet, with fine sand bedding
	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0			5 11 17	S-4		- grades black
15	Threaded end cap, 2" ID SCH 40 PVC							Medium dense, wet; gray-brown SAND; some silt, sand fine, trace organics
	Bentonite chips	0			4 5 6	S-5		ESTUARINE DEPOSITS
20								- shell fragments in cuttings
								GLACIAL SEDIMENT
		0			27 50/4"	S-6		Very dense, moist; gray SAND with GRAVEL; little silt
								Bottom of boring at 22.5 feet. Monitoring well installed to depth of 15.3 feet.

Sampler Type (ST):

-  3.25" OD D&M Split-Spoon Ring Sampler
-  No Recovery
-  2" OD Split-Spoon Sampler

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content

Logged by: RRH

Approved by: JJS



 Water Level (ATD)  Static Water Level

Figure No. A-5

Project Number
BV97041

Well Number
MW-14

Sheet
1 of 2

Project Name South Park Custodial Landfill

Surface Elevation 19.05

Location Seattle, Washington

Water Depth (ft bgs) 3.96

Drilling Method Hollow Stem Auger 10.5" OD/6" ID




Start Date September 14, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop

Finish Date September 14, 1999

Depth feet	Well Construction	Methane %	S T	Blows/ 6"	Sample ID	Mtl. Graphic	Description
	Locking, 8" Steel Monument						TOPSOIL
	Concrete seal						Loose, moist; dark brown SAND with SILT and ORGANICS; concrete and bricks in cuttings
	Bentonite chips	0		14 10 6	S-1		FILL Medium dense, damp; brown SAND with SILT and GRAVEL; with brick
	3.96 ft bgs, 10/14/99						
	4.5 ft bgs ATD, 9/14/99, casing at 5 ft bgs	0		4 3 5	S-2		Loose, wet; brown SILT; trace gravel, trace sand, trace wood
5							
		0		4 8 9	S-3		RECENT ALLUVIUM Medium dense, wet; black SAND; silt interbeds to 1.5", sand fine to medium
10							
	Filter pack, 10x20 Colorado silica sand	0		4 9 9	S-4		- wood in auger
15							
	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0		2 5 5	S-5		Stiff, wet; brown SILT; trace sand laminae, low plasticity
20							
	Threaded end cap, 2" ID SCH 40 PVC						- heaving at 21 feet
	Pea gravel	0		2 7 6	S-6		ESTUARINE DEPOSIT Medium dense, wet; brown SAND; few silt, trace shell fragments
	Bentonite chips						

Sampler Type (ST):

-  3.25" OD D&M Split-Spoon Ring Sampler
-  No Recovery
-  2" OD Split-Spoon Sampler

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content

Logged by: RRH

Approved by: JJS



 Water Level (ATD)  Static Water Level

Figure No. A-6

Project Number
BV97041

Well Number
MW-14

Sheet
2 of 2

Project Name South Park Custodial Landfill

Location Seattle, Washington

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop

Surface Elevation 19.05




Water Depth (ft bgs) 3.96

Start Date September 14, 1999

Finish Date September 14, 1999



Depth feet	Well Construction	Methane %	S T	Blows/ 5"	Sample ID	M.I. Graphic	Description
30	Bentonite chips	0		4 7 23	S-7		GLACIAL SEDIMENT Hard, wet; brown and gray mottled SILT; trace sand lenses, gravel in shoe
35		0		3 16 37	S-8		Hard, moist to wet; gray and tan mottled SILT; few sand
40							Bottom of boring at 34 feet. Monitoring well installed to depth of 21.8 feet.
45							

Sampler Type (ST):

-  3.25" OD D&M Split-Spoon Ring Sampler
-  No Recovery
-  2" OD Split-Spoon Sampler

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content

 Water Level (ATD)  Static Water Level

Logged by: **RRH**

Approved by: **JJS**

Figure No. **A -6**

Project Number
BV97041

Well Number
MW-18

Sheet
1 of 2

Project Name South Park Custodial Landfill

Surface Elevation 20.78

Location Seattle, Washington

Water Depth (ft bgs) 15.3

Drilling Method Hollow Stem Auger 10.5" OD/6" ID




Start Date September 17, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop

Finish Date September 17, 1999

Depth feet	Well Construction	Methane %	S T	Blows/ 6"	Sample ID	MIL Graphic	Description
	Locking, 8" Steel Monument						FILL
	Concrete seal	0		6 9 8	S-1		Medium dense, damp; brown SAND with GRAVEL; trace silt, trace organics, 1 piece of glass
5	Bentonite chips	0		7 7 7	S-2		REFUSE Medium dense, damp; brown SAND, few gravels, trace silt, trace wood; plastic debris noted in shoe
		0.1		26 27 31	S-3		-very dense, damp; gray concrete cinder block
10	Bentonite slurry, 30% by weight	0		14 15 7	S-4		
		0		2 3 2	S-5A		Firm, moist to wet; gray grading to brown SILT some ORGANICS
					S-5B		RECENT ALLUVIUM Medium dense, moist; dark brown to black SAND; sand fine to medium, angular red grains visible of volcanic origin
15	14.5 ft bgs ATD, 9/17/99, casing at 17.5 ft bgs 15.30 ft bgs, 10/14/99	0		1 2 3	S-6A		- grades firm, wet, brown silt, some organics
					S-6B		Medium dense, wet; black SAND; sand fine to medium, angular red grains visible of volcanic origin
20		0		3 8 10	S-7		- trace silt interbeds

Sampler Type (ST):

-  3.25" OD D&M Split-Spoon Ring Sampler
-  No Recovery
-  2" OD Split-Spoon Sampler

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content

Logged by: RRH

Approved by: JJS



 Water Level (ATD)  Static Water Level

Figure No. A -7

Project Number
BV97041

Well Number
MW-18

Sheet
2 of 2

Project Name South Park Custodial Landfill

Location Seattle, Washington

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop

Surface Elevation 20.78




Water Depth (ft bgs) 15.3

Start Date September 17, 1999

Finish Date September 17, 1999

Depth feet	Well Construction	Methane %	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
0 - 30	Bentonite slurry, 30% by weight	0		3 10 14	S-8		Medium dense, wet; black SAND; sand fine to medium, angular red grains visible of volcanic origin
30 - 35	Filler pack, 10x20 Colprado silica sand	0		11 16 12	S-9		- sand fine to coarse
35 - 40	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0		7 8 16	S-10		- silt content increases
40 - 45	Threaded end cap, 2" ID SCH 40 PVC	0		12 13 15	S-11		Firm, wet; brown SILT few SAND; trace organics
45 - 49.4	Bentonite chips	0		6 19 27	S-12		Medium dense, wet; black SAND; sand fine to medium, red grained and angular - grades dense, brown sand, trace silt, visible bedding
Bottom of Boring at 49 feet. Monitoring well installed to depth of 40.4 feet.							

Sampler Type (ST):

-  3.25" OD D&M Split-Spoon Ring Sampler
-  No Recovery
-  2" OD Split-Spoon Sampler

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content

Logged by: **RRH**

Approved by: **JJS**



 Water Level (ATD)  Static Water Level

Figure No. **A - 7**

Project Number
BV97041

Well Number
MW-24

Sheet
1 of 2

Project Name South Park Custodial Landfill

Surface Elevation 13.57

Location Seattle, Washington

Water Depth (ft bgs) 8.35

Drilling Method Hollow Stem Auger 10.5" OD/6" ID




Start Date September 21, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop

Finish Date September 21, 1999

Depth feet	Well Construction	Methane %	S T	Blows/ 6"	Sample ID	Mtl. Graphic	Description
	Locking, 8" Steel Monument						FILL
	Concrete seal						Medium dense, damp; dark red-brown SAND; sand fine to medium, sand angular
	Bentonite chips	0					- grades moist to wet, dark brown to black
5	6.0 ft bgs ATD, 9/21/99, casing at 7.5 ft bgs						
	8.35 ft bgs, 10/14/99	0		1 3 6	S-1		Firm, wet to moist; brown SILT; mostly organics, peat-like - grades wet, gray and brown, trace sand
10							RECENT ALLUVIUM
	Bentonite slurry, 30% by weight	0		3 2 9	S-2		Medium dense, wet; black SAND; some brown organic silt interbeds, sand fine to medium
15							
		0		5 11 14	S-3		- sand grades angular
20							
		0		2 15 37	S-4		- grades very dense

Sampler Type (ST):

-  3.25" OD D&M Split-Spoon Ring Sampler
-  No Recovery
-  2" OD Split-Spoon Sampler

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content

Logged by: RRH

Approved by: JJS



 Water Level (ATD)  Static Water Level

Figure No. A-8

Project Number
BV97041

Well Number
MW-24

Sheet
2 of 2

Project Name South Park Custodial Landfill

Location Seattle, Washington

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop

Surface Elevation 13.57




Water Depth (ft bgs) 8.35

Start Date September 21, 1999

Finish Date September 21, 1999



Depth feet	Well Construction	Methane %	S T	Blows/ 5"	Sample ID	Mil. Graphic	Description
30	Bentonite slurry, 30% by weight	0		9 28 32	S-5		Very dense, wet; black SAND; some brown organic silt interbeds, sand fine to medium
35	Filler pack, 10x20 Colorado silica sand	0		9 24 33	S-6		
40	Well screen 2" ID SCH 40 PVC, 0.01" slot size	0		4 2 2	S-7		Firm, wet; dark brown SILT with SAND; organics present
45	PVC slip cap, 55 screws	0		4 8 10	S-8		Medium dense, wet; black SAND; sand fine to medium and angular
	Pea gravel						- grades siltier
	Bentonite chips	0		3 9 14	S-9		- grades few silt, trace wood and organics
Bottom of Boring at 49 feet. Monitoring well installed to depth of 45.3 feet.							

Sampler Type (ST):

-  3.25" OD D&M Split-Spoon Ring Sampler
-  No Recovery
-  2" OD Split-Spoon Sampler

Lab Tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture Content

-  Water Level (ATD)
-  Static Water Level

Logged by: **RRH**

Approved by: **JJS**

Figure No. **A 8**



Monitoring Well Construction Log

Project Number
970041

Well Number
MW-25

Sheet
1 of 1

Project Name South Park Custodial Landfill

Ground Surface Elev. (NAVD88) 17.30

Location Seattle, Washington

Top of Casing Elev. (NAVD88) 20.09

Driller/Method Holt / Hollow Stem Auger

Depth to Water (BTOW) 12.54

Sampling Method 3.25" OD D&M Split-Spoon; 300 lbs Hammer

Start/Finish Date 2/23/2006

Depth / Elevation (feet)	Well Completion	Sample Type/ID	Tools / PID	Blows/ 6"	Material Type	Description
15	Above ground locking monument with bollards and slip cap Concrete surface seal	S-1		3 3 3		FILL Loose, damp, brown, slightly silty fine SAND
5	Bentonite chip seal	S-2		3 3 4		RECENT ALLUVIUM Medium stiff, moist, gray SILT; scattered organics, wood debris
10	2/23/2006	S-3		4 4 5		Loose, wet, black, fine to medium SAND
10	2-inch PVC blank casing	S-4		1 0 1		Very soft, wet, gray SILT; abundant wood debris
5	2/27/2006	S-5		1 1 1		
15		S-6		1 1 1		Very soft, wet, gray, sandy SILT; sand fine
0	Bentonite pellet plug	S-7		2 2 1		
20	10-20 filter pack	S-8		4 6 7		Medium dense, wet, black, slightly silty, fine to medium SAND
-5		S-9	DS25060223-	6 10 12		
-10	2-inch, 20-slot, PVC well screen					
						Bottom of Boring at 28'
						Coordinates N: 197657.49 E: 1270568.75

MONITORING WELL SOUTH-PARK_WELLS.GPJ March 10, 2006

*Set pump intake
~ 24 ft BTOW*

Sampler Type:
 No Recovery
 3.25" OD D&M Split-Spoon Ring Sampler

PID - Photolocalization Detector
 Static Water Level
 Water Level (ATD)

Logged by: TDC
 Approved by: JJS
 Figure No. A-2



Monitoring Well Construction Log

Project Number
970041

Well Number
MW-26

Sheet
1 of 1

Project Name: **South Park Custodial Landfill**

Ground Surface Elev. (NAVD88): **13.55**

Location: **Seattle, Washington**

Top of Casing Elev. (NAVD88): **15.84**

Driller/Method: **Holt / Hollow Stem Auger**

Depth to Water (BTOC): **8.27**

Sampling Method: **3.25" OD D&M Split-Spoon; 300 lbs Hammer**

Start/Finish Date: **2/23/2006**

Depth / Elevation (feet)	Well Completion	Sample Type/ID	Tests / PID	Blows / 6'	Material Type	Description
10	Above ground locking monument with bolards and slip cap Concrete surface seal	S-1		4 4 5		FILL Loose, damp, brown, fine to medium SAND
5	2-inch PVC blank casing					
	Bentonite chip seal	S-2		2 1 1		
	2/23/2006					
5	2/27/2006	S-3 S-4		1 1 1		RECENT ALLUVIUM Very soft, wet, brown SILT; abundant organics Very soft, wet, brown SILT; few organics
10	Bentonite pellet plug	S-5		2 4 4		Grades to medium stiff, wet, gray sandy SILT; sand fine
0	10/20 filler pack	S-6		1 2 2		Very loose to loose, wet, black, fine SAND; trace silt
15		S-7	DS26060223-	3 4 5		
-5	2-inch, 20-slot PVC well screen	S-8		4 4 4		
20		S-9		3 3 4		
-10						
26						Bottom of Boring at 26'
-15						Coordinates N: 197121.60 E: 1271164.40

Set pump intake ~ 20 ft BTOC

MONITORING WELL SOUTH-PARK_WELLS.GPJ March 10, 2006

Sampler Type:
 No Recovery
 3.25" OD D&M Split-Spoon
 Ring Sampler

PID - Photolization Detector
 Static Water Level
 Water Level (ATD)

Logged by: TDC
 Approved by: JJS
 Figure No. A-3



Monitoring Well Construction Log

Project Number
970041

Well Number
MW-27

Sheet
1 of 1

Project Name South Park Custodial Landfill

Ground Surface Elev. (NAVD88) 12.72

Location Seattle, Washington

Top of Casing Elev. (NAVD88) 14.76

Driller/Method Holt / Hollow Stem Auger

Depth to Water (BTOC) 6.91

Sampling Method 3.25" OD D&M Split-Spoon; 300 lbs Hammer

Start/Finish Date 2/23/2006

Depth / Elevation (feet)	Well Completion	Sample Type/ID	Table / PID	Blows / ft	Material Type	Description
10	Above ground locking monument with bollards and slip cap Concrete surface seal					FILL (Loose), moist, gray, GRAVEL Medium dense, damp, brown-gray, silty sandy GRAVEL
10	2-inch PVC blank casing	S-1		7		
5	Bentonite chip seal			10		
5		S-2		3		Medium dense to loose, damp to wet, slightly silty, slightly gravelly, fine SAND
5	2-2 3/4" 200B			2		Loose, wet, brown, medium to fine SAND; trace silt, trace gravel
5	10-20 filler pack	S-3				
10		S-4		2		-Very loose, wet, gray-brown GRAVEL; well rounded to 0.5-inch
0		S-5		1		RECENT ALLUVIUM Loose, wet, gray, silty fine SAND
15	24-inch, 20-slot PVC well screen			2		
15		S-6		2		
15		S-7	DS27060223-	2		
5		S-8		2		
20				3		Loose, wet, black, fine to medium SAND; trace silt
20				4		
20				5		
-10						Bottom of Boring at 21' Coordinates N: 196835.06 E: 1271357.64

Set point recovered ~ 15 ft BTOC

MONITORING WELL: SOUTH-PARK_WELLS.GPJ March 10, 2006

Sampler Type: No Recovery 3.25" OD D&M Split-Spoon Ring Sampler

PID - Photoionization Detector Static Water Level Water Level (ATD)

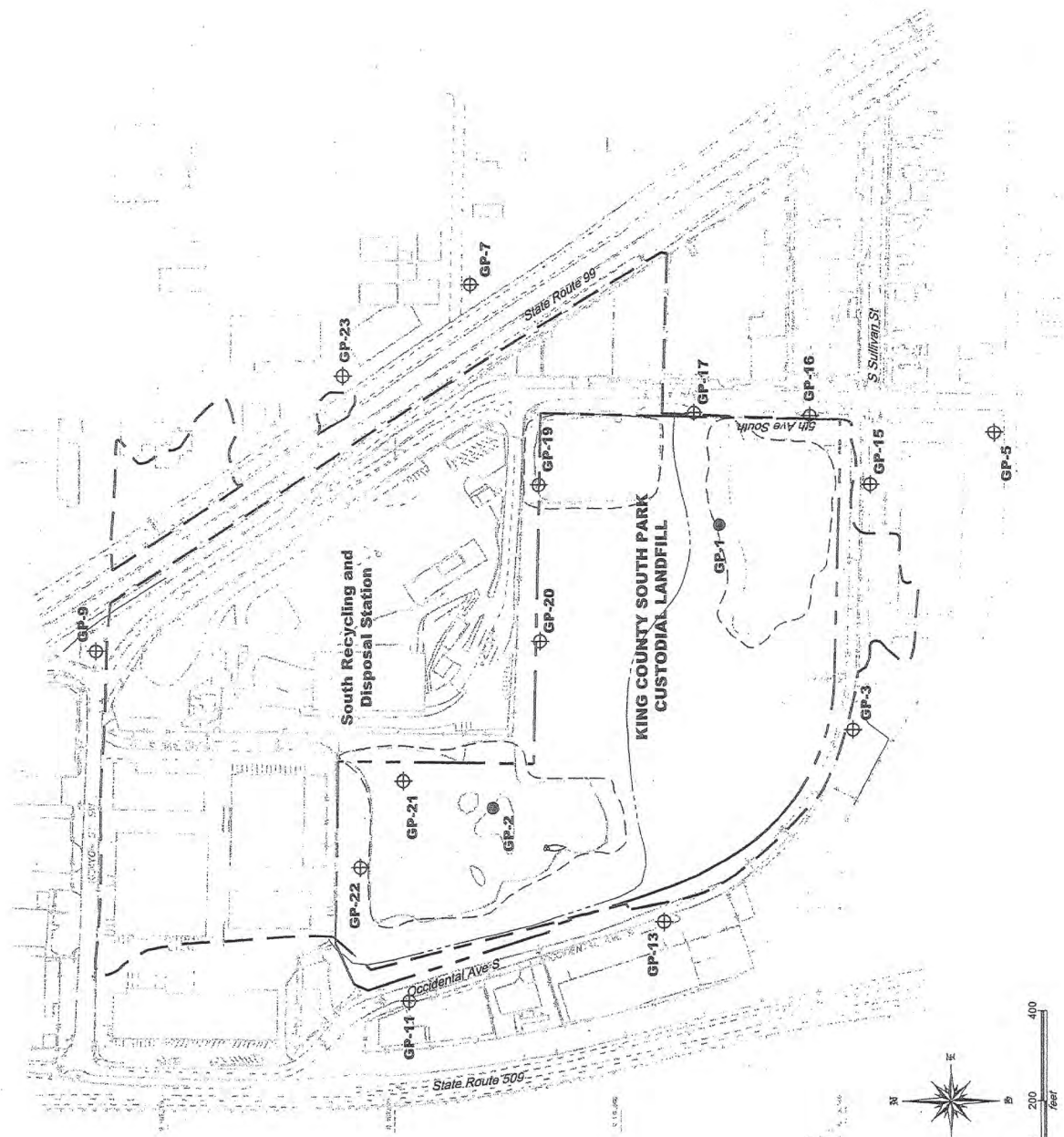
Logged by: TDC Approved by: JJS Figure No. A-4

Historical Gas Probes

LEGEND

- Landfill Boundary
 (Approximate, based on air photo interpretation and soil borings).
- King County Property Line
- Ditch (Approximate, based on basemap and air photo).
- ▲ AESI Gas Probes - 14 Locations
- Unalloy Environmental Services Gas Probes - Installed April, 1997 - 2 Locations

REFERENCE BASE MAP AND TOPOGRAPHY BY
 BUSINESS AERIAL MAPPING, 3/1/97



CLIENT/PROJECT NAME King County / South Park Landfill
 PROJECT # A19-001-01
 GEOLOGIST/ENGINEER B. Carpenter / H. Corner
 DRILLING CONTRACTOR Hokkaido
 DRILLING METHOD Hollow Stem Auger / Mobile
 B-61 HOLE DIA. 10"

BORING NO. **SB-1** AKA
 DATE BEGAN 4/14/97
 DATE COMPLETED 4/14/97
 TOTAL DEPTH 29'
 SHEET 1 OF 1
GP-01

SOIL BORING LOG

OTHER H.F.S. / Meters / Feet	WELL OR PIEZOMETER DETAILS	SAMPLING DATA				DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	WATER LEVEL DATA				FIELD LOCATION OF BORING NW Corner of South truck storage area. GROUND ELEVATION _____ DATUM _____		
		SAMPLING METHOD	SAMPLE NUMBER	BLOWS/FT	DEPTH SAMPLED			DEPTH	TIME	DATE	BORING DEPTH			
														LITHOLOGIC DESCRIPTION 0-2 sm Dark Brown silty SAND, fine, poorly graded with gravel and cobbles, Fill 2-4 silty SAND, with asphalt, Fill 4-8 silty SAND, with charred wood waste 8-12 No recovery, wood waste w/cresote in tip of split spoon 12-18 No recovery. Drilling became easier (Possibly out of garbage into SILT) 18-22 ml Grey-Brown Sandy SILT with some plant matter 22-28 SP Black fine to medium SAND with trace of silt, poorly graded 28-30
		SS-1"	15	17/21	2									
		SS-3"	11	25/30	4									
		SS-3"	50/1"		6									
		SS-3"	50/1"		8									
		SS-3"	50/1"		10									
		SS-3"	50/1"		12									
		SS-3"	11	11/19	14									
		SS-3"	50/1"		16									
		SS-3"	50/1"		18									
		SS-3"	11	11/19	20									
		SS-3"	50/1"		22									
		SS-2"	16/24	50/54	24									
	SS-2"	50/54		26										
				28										
				30										

REMARKS: Backfilled borehole with Pure Gold medium bentonite chips from 20' to 17'. Added 2' of 10x20 sand from 17 to 15'. Well string 14' 9" set at 15'. Screen (10'-20 slot)

*No detection of Vinyl chloride or benzene with detector tubes (Sensidyne Pump) at 4'

*NOTE Specify data recorded in un-designated column (e.g. conductance, pH, lip reading, pocket torvane, etc.) Elevated PIZ possibly caused by moisture. Raining periodically

UES Udaly Environmental Services

CLIENT/PROJECT NAME King County Solid Waste Div / South Park PROJECT # A19-001-01
GEOLOGIST/ENGINEER B. Carpenter / T. Treat
DRILLING CONTRACTOR Holtekids
DRILLING METHOD Hollow Stem Auger / Mobil
B-61 HOLE DIA. 10"

BORING NO. SB-2
DATE BEGAN 4/15/97
DATE COMPLETED 4/15/97
TOTAL DEPTH 15'
SHEET 1 OF 1

SOIL BORING LOG

OTHER USES Monitoring	WELL OR PIEZOMETER DETAILS	SAMPLING DATA				DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	WATER LEVEL DATA				FIELD LOCATION OF BORING: E of TP - 11, Grove of trees, S. Central area Truck Storage yard - North GROUND ELEVATION Property DATUM		
		SAMPLING METHOD	SAMPLE NUMBER	BLOWS/FT	DEPTH SAMPLED			DEPTH	TIME	DATE	BORING DEPTH			
	GW-2 2" PVC			2" split spoon				14.20						
					0	SM								
					2									
					4									
					6									
					8									
					10									
					12									
					14									
					16									

LITHOLOGIC DESCRIPTION

0 - 2' Brown-grey silty SAND, fine to medium, with gravel, cobble fill.

2 - 4' Brown-grey silty SAND, fill mixed with pieces of a tire and refuse

4 - 8' Brown-grey silty SAND, fill mixed with refuse including wood waste.

8 - 12' No Recovery, wood waste in tip of sampler

12 - 15' Total Depth 15'
(Reached auger refusal on large piece of steel)

REMARKS: Set gas well at 14' resting on 12" (8-12 Colorado Sand). Well 5 1/2' 13'9" long. 10' of 20 slot PVC, 3'9" of blank PVC. Used 5 bags of 10-20 sand (100 lbs) and 1 bag of 8-12 Sand (50 lb.) and 2 bags of bentonite chips.

*NOTE Specify data recorded in un-designated column (e.g. conductance, pH, up reading, pocket torvane, etc.)

Water Sample # 6.85
SC-1688

Project Number
 BV97041

 Well Number
GP-3

 Sheet
 1 of 1

 Project Name South Park Custodial Landfill

 Surface Elevation 20.15

 Location King County

Water Depth (ft bgs) _____

 Drilling Method Hollow Stem Auger, 10.5" OD/6" ID




 Start Date December 3, 1998

 Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer



 Finish Date December 3, 1998

Depth feet	Gas Probe Construction	Methane	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
1	Locking 8" steel monument, PVC stopcock						FILL SANDY SILT; brown; small brick chips; moist, stiff; no odors or discoloration (ML)
	Concrete seal						
2	Riser, 0.75" ID, SCH 80 PVC						
3	Bentonite chip seal	0%		8 12 16			
4							
5	Filter pack, pea gravel	0%		6 14 11			SAND; brown; trace to some silt; moist to wet; medium dense; no odors or discoloration (SP)
6	Well screen 0.75" ID, SCH 80 PVC, 0.04" slot size						
7	ATD 12/3/98 0.75" ID PVC end cap						Bottom of boring at depth 7 feet. Gas Probe installed to depth 7 feet.
8							
9							

Sampler Type (ST):

-  3" Split Spoon Sampler
-  No Recovery
-  2" Split Spoon Sampler

Lab Tests:

- C - Chemical Properties
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

 Logged by: **RSB**

 Approved by: **JJS**

Project Name South Park Custodial Landfill

Surface Elevation 17.35

Location King County

Water Depth (ft bgs) _____

Drilling Method Hollow Stem Auger, 10.5" OD/6" ID

Start Date December 4, 1998

Sampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer

Finish Date December 4, 1998

Depth feet	Gas Probe Construction	Methane	S T	Blows/ 6"	Sample ID	MIL. Graphic	Description
	Locking 8" steel monument, PVC stopcock						FILL
	Concrete seal						GRAVEL; gray; angular (GP)
1							SILT; brown; trace gravel, some sand; moist, soft; no odors or discoloration (ML)
2	Riser, 0.75" ID, SCH 80 PVC	0%		5			
3	Bentonite chip seal			4			
4				5			
5	Filter pack, pea gravel						
6	Well screen 0.75" ID, SCH 80 PVC, 0.04" slot size						
7	0.75" ID PVC end cap	0%		2			
8				7			
9				6			
				7			
				12			
							-Bottom of boring at depth 7 feet. Gas probe installed to depth 7 feet. - Soil sampler driven using 140-pound hammer falling 30-inches. - Soil samples are logged from adjacent Monitoring Well MW-6. - Shelby tube sampling attempted from 7 feet to 9.5 feet with no sample recovery - No groundwater encountered.

Sampler Type (ST):

- 3" Split Spoon Sampler
- No Recovery
- 2" Split Spoon Sampler

Lab Tests:

- C - Chemical Properties
- M - Moisture Content
- Water Level (Date of Measurement)
- Water Level (ATD)

Logged by: RSB

Approved by: JJS

Figure No 18

Project Number
 BV97041

Well Number
GP-7

Sheet
 1 of 1

Project Name South Park Custodial Landfill

Surface Elevation 12.88

Location King County

Water Depth (ft bgs) _____

Drilling Method Hollow Stem Auger, 10.5" OD/6" ID




Start Date December 8, 1998

Sampling Method _____



Finish Date December 8, 1998

Depth feet	Gas Probe Construction	Methane	S T	Blows/ 6"	Sample ID	MIL Graphic	Description
	Locking 8" steel monument, PVC stopcock						FILL
	Concrete seal						GRAVEL; gray; angular (GP)
-1	Riser, 0.75" ID, SCH 80 PVC						SILTY SANDY GRAVEL; brown; subrounded to 1" diameter; moist, medium dense (GM)
-2	Bentonite chip seal			16			
-3		0%		16			
-4	Filler pack, pea gravel			15			
-4	Well screen 0.75" ID, SCH 80 PVC, 0.04" slot size						
-4	0.75" ID PVC end cap						
-5							Bottom of boring at depth 4.5 feet. Gas Probe installed to depth 4.5 feet. No groundwater encountered. Soil samples are logged from adjacent Monitoring Well MW-8.
-6							
-7							
-8							
-9							

Sampler Type (ST):

-  3" Split Spoon Sampler
-  No Recovery
-  2" Split Spoon Sampler

Lab Tests:

- C - Chemical Properties
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: **RSB**

Approved by: **JJS**

Project Number
BV97041

Well Number
GP-9

Sheet
1 of 1

Project Name South Park Custodial Landfill

Surface Elevation 17.7

Location King County

Water Depth (ft bgs) _____

Drilling Method Hollow Stem Auger, 10.5" OD/6" ID




Start Date December 10, 1998

Sampling Method _____



Finish Date December 10, 1998

Depth feet	Gas Probe Construction	Methane	S T	Blows/ 6"	Sample ID	Mtl. Graphic	Description
	Locking 8" steel monument, PVC stopcock						FILL
1	Concrete seal						SAND; fine to medium grained, trace silt; loose (SP)
2	Riser, 0.75" ID, SCH 80 PVC	0%		5 10 11			
3	Bentonite chip seal						
4							
5				4 3 10			
6	Well screen 0.75" ID, SCH 80 PVC, 0.04" slot size						RECENT ALLUVIUM SILT; gray; wood debris; moist, firm, low plasticity (ML)
7	Filter pack, pea gravel						SAND; fine to medium grained, trace silt; moist, medium dense (SP)
8		0%					
9	0.75" ID PVC and cap						Bottom of boring at depth 9 feet. Gas probe installed to depth 9 feet. Soil samples are logged from adjacent Monitoring Well MW-10.

Sampler Type (ST):

-  3" Split Spoon Sampler
-  No Recovery
-  2" Split Spoon Sampler

Lab Tests:

- C - Chemical Properties
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: **RSB**

Approved by: **JJS**

Figure No. **20**

January 3, 2000

SPARKGP, SPARKMW, GE

Project Number
BV97041

Well Number
GP-11

Sheet
1 of 1

Project Name South Park Custodial Landfill

Surface Elevation 19.09

Location Seattle, Washington

Water Depth (ft bgs) 6.5

Drilling Method Hollow Stem Auger 10.5" OD/6" ID




Start Date September 20, 1999

Sampling Method No samples - log inferred from MW-12



Finish Date September 20, 1999

Depth feet	Gas Probe Construction	Methane %	S T	Blows/ 6"	Sample ID	M/L Graphic	Description
0	Locking, 8" Steel Monument						FILL
0.5	Concrete seal						Firm, moist; brown and tan mottled SILT
2.5	Bentonite chips	0					
4.5	Filter pack, pea gravel						Loose, moist; red-brown to black with depth SAND; silty interbeds sand fine to coarse
5.5	Well screen 2" ID SCH 40 PVC, 0.04" slot size	0					
5.8	PVC slip cap, 55 screws						
6.5	6.5 ft bgs (ATD), 9/20/99						
6.5							Bottom of Boring at 6 feet. Gas probe installed to depth of 5.8 feet.

Sampler Type (ST):

-  2" Split Spoon Sampler
-  No Recovery
-  3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: **RRH**

Approved by: **JJS**

Figure No. **A - 21**

Project Number
BV97041

Well Number
GP-13

Sheet
1 of 1

Project Name South Park Custodial Landfill

Surface Elevation 19.09

Location Seattle, Washington

Water Depth (ft bgs) 4.5

Drilling Method Hollow Stem Auger 10.5" OD/6" ID

Start Date September 14, 1999

Sampling Method No samples - log inferred from MW-14

Finish Date September 14, 1999

Depth feet	Gas Probe Construction	Methane %	S T	Blows/ 6"	Sample ID	MIL Graphic	Description
0	Locking, 8" Steel Monument						TOPSOIL
0-1	Concrete seal						Loose, moist; dark brown SAND with SILT and ORGANICS; concrete and bricks in cutting
1-2	Bentonite chips						FILL/DEMOLITION DEBRIS
2-3	Filter pack, pea gravel						Medium dense, damp; brown SAND with SILT and GRAVEL; with brick
3-4	Well screen 2" ID SCH 40 PVC, 0.04" slot size						
4-5	4.5 ft bgs ATD, 9/14/99, casing at 4.5 ft bgs	0					
5-6							Bottom of Boring at 4.5 feet. Gas probe installed to depth of 4.5 feet.
6-7							
7-8							
8-9							

Sampler Type (ST):

- 2" Split Spoon Sampler
- No Recovery
- 3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
- Water Level (Date of Measurement)
- Water Level (ATD)

Logged by: RRH

Approved by: JJS

Figure No. A - 22

Project Number
BV97041

Well Number
GP-15

Sheet
1 of 1

Project Name South Park Custodial Landfill

Surface Elevation 12.72

Location Seattle, Washington

Water Depth (ft bgs) 6.6

Drilling Method Hollow Stem Auger 8" OD/4" ID




Start Date September 13, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop



Finish Date September 13, 1999

Depth feet	Gas Probe Construction	Methane %	S T	Blows/ 6"	Sample ID	Min. Graphic	Description
	Locking, 8" Steel Monument						REFUSE Medium dense, damp; dark brown SAND; trace gravel, trace glass, trace copper, trace steel
1	Concrete seal						
2		0.1		17	S-1		
3	Bentonite chips			8			
4				5			
5	Filter pack, pea gravel	0		3	S-2		Wood over loose, wet; gray SAND; sand fine to medium
6	Well screen 2" ID SCH 40 PVC, 0.04" slot size			4			
7	6.45 ft bgs, 10/14/99 6.6 ft bgs ATD, 9/13/99, casing at 5.0 ft bgs Threaded end cap, 2" ID SCH 40 PVC			5			Bottom of Boring at 7 feet. Gas probe installed to depth of 7.0 feet.
8							
9							

Sampler Type (ST):

-  2" Split Spoon Sampler
-  No Recovery
-  3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: RRH
Approved by: JJS

Figure No. A - 23

Project Name South Park Custodial Landfill

Surface Elevation 19.93

Location Seattle, Washington

Water Depth (ft bgs) 8

Drilling Method Hollow Stem Auger 8" OD/4" ID




Start Date September 14, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop



Finish Date September 14, 1999

Depth feet	Gas Probe Construction	Methane %	S T	Blows/ 6"	Sample ID	Mtl. Graphic	Description
0-1	Locking, 8" Steel Monument						REFUSE
1-2	Concrete seal						Medium dense, damp; brown SAND few SILTS; trace debris, debris includes rubber, MTL, plastic
2-3	Bentonite chips	0.1		4 3 8	S-1		
3-4							
4-5	Filter pack, pea gravel						
5-6		0.1		50/3"	S-2		- grades very dense, moist, dark brown; debris includes glass, gypsum, wood
6-7	Well screen 2" ID SCH 40 PVC, 0.04" slot size						
7-8	PVC Slip Cap, 55 screws						
8-9	Bentonite chips	0.1		2 4 7	S-3		Medium stiff, wet; gray SILT few SAND; trace gravel
9-10	8.0 ft bgs ATD, 9/14/99, casing at 7.5 ft bgs						Bottom of Boring at 9 feet. Gas probe installed to depth of 7.5 feet.
10-11							
11-12							
12-13							
13-14							

Sampler Type (ST):

-  2" Split Spoon Sampler
-  No Recovery
-  3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: RRH

Approved by: JJS

Figure No. A - 24

Project Number
BV97041

Well Number
GP-17

Sheet
1 of 1

Project Name South Park Custodial Landfill

Surface Elevation 21.11

Location Seattle, Washington

Water Depth (ft bgs) 14

Drilling Method Hollow Stem Auger 8" OD/4" ID




Start Date September 13, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop



Finish Date September 13, 1999

Depth feet	Gas Probe Construction	Methane %	S T	Blows/ 6"	Sample ID	Mit. Graphic	Description
0	Locking, 8" Steel Monument						REFUSE
1	Concrete seal						Medium dense, damp; brown SAND with GRAVEL; few silt, trace wood, trace glass debris
2							
3	Hydrated bentonite chips	0		11 12 4	S-1		
4							
5	Filter pack, pea gravel	0		4 3 35	S-2		- grades dense, moist, 40% debris (concrete, brick, gypsum, metal, glass)
6							
7	Well screen 2" ID SCH 40 PVC, 0.04" slot size	0		10 28 27	S-3		Very dense, moist; brown GRAVEL with SAND; est. 50% construction debris (brick, concrete, glass, rusted metal)
8							
9							
10	Threaded end cap, 2" ID SCH 40 PVC	0.2		50/3"	S-4		- grades trace gravel
11							
12	Bentonite chips	0.1		1 1 3	S-5		Soft, wet; gray SILT; trace organics
13							- grades brown organic silt
14	14 ft bgs ATD, 9/13/99, casing at 12.5 feet						Bottom of Boring at 14 feet. Gas probe installed to depth of 10.35 feet.

Sampler Type (ST):

-  2" Split Spoon Sampler
-  No Recovery
-  3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: RRH

Approved by: JJS

Figure No. A - 25

Project Name South Park Custodial Landfill

Surface Elevation 24.16

Location Seattle, Washington

Water Depth (ft bgs) 13.97

Drilling Method Hollow Stem Auger 8" OD/4" ID




Start Date September 15, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop



Finish Date September 15, 1999

Depth feet	Gas Probe Construction	Methane %	S	T	Blows/ 6"	Sample ID	Mt. Graphic	Description
	Locking, 8" Steel Monument							REFUSE
	Concrete seal							Medium dense, damp SAND with GRAVEL; trace silt over newsprint (church literature, no date)
5	Hydrated bentonite chips	0			4 3 9	S-1		
	Filler pack, pea gravel	0			7 8 6	S-2		- yellow pages with wood
10	Well screen 2" ID SCH 40 PVC, 0.04" slot size	0			6 8 5	S-3		- 70 - 80% wood, paper with trace metal and plastic, possibly charred
	Threaded end cap, 2" ID SCH 40 PVC	0			6 6 3	S-4		
	Bentonite chips	0			5 3 4	S-5		
15	13.97 ft bgs ATD, 9/15/99, casing at 15 feet	0						Firm, wet; gray SILT with GRAVEL; few sand
								Bottom of Boring at 16.5 feet. Gas probe installed to depth of 12.3 feet.

Sampler Type (ST):

-  2" Split Spoon Sampler
-  No Recovery
-  3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: RRH

Approved by: JJS

Figure No. A - 26

Project Number
BV97041

Well Number
GP-20

Sheet
1 of 1

Project Name South Park Custodial Landfill

Surface Elevation 26.37

Location Seattle, Washington

Water Depth (ft bgs) 14.5

Drilling Method Hollow Stem Auger 10.5" OD/6" ID




Start Date September 16, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop



Finish Date September 16, 1999

Depth feet	Gas Probe Construction	Methane %	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
	Locking, 6" Steel Monument						Concrete rubble at surface
	Concrete seal						
	Bentonite chips	0		15 19 15	S-1		REFUSE Concrete and rubble cuttings; dense, damp, brown SAND; little GRAVEL; 30% wood, metal, paper debris
5	Filter pack, pea gravel						
	Well screen 2" ID SCH 40 PVC, 0.04" slot size	0		6 8 23	S-2		- grades moist, dark brown to gray, few silt; 50% debris, wood, metal, paper, glass, ash present
10	PVC slip cap, SS screws	0		5 6 27	S-4		- wood and brick pieces, no soil
15	14.6 ft bgs ATD, 9/16/99, casing at 15.0 ft bgs	0.1		12 5 6	S-5		- grades medium dense, wet; black sand with gravel
	16.6 ft bgs ATD, 9/16/99, casing at 17.5 ft bgs	0.1		16 9 7	S-6		
	Bentonite chips						
20		0		4 3 4	S-7		Firm, wet; brown SILT some ORGANICS; trace sand
							Bottom of Boring at 21.5 feet. Gas probe installed to depth of 13.3 feet.

Sampler Type (ST):

-  2" Split Spoon Sampler
-  No Recovery
-  3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: RRH




Approved by: JJS

Figure No. A - 27



Project Name South Park Custodial Landfill	Surface Elevation 23.37
Location Seattle, Washington	Water Depth (ft bgs) 13.7
Drilling Method Hollow Stem Auger 10.5" OD/6" ID	Start Date September 15, 1999
Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop	Finish Date September 15, 1999

Depth feet	Gas Probe Construction	Methane %	S	T	Blows/ 6"	Sample ID	Mil. Graphic	Description
	Locking, 8" Steel Monument							GRAVEL with SAND
	Concrete seal							REFUSE
	Bentonite chips	0			3 7 43	S-1		Very dense, moist; dark brown to black SAND with GRAVEL and SILT; 40-50% wood and trace metal, plastic, and paper
5								- cuttings generally 90% wood, trace metal, rubber, and paper
	Filter pack, pea gravel	0			12 9 23	S-2		- 90% wood with few sand, trace silt
10	Well screen 2" ID SCH 40 PVC, 0.04" slot size							- drills easier at 11 feet
	PVC slip cap, SS screws	0.1			7 15 15	S-3		
	13.7 ft bgs ATD, 9/15/99							
15	Bentonite chips	0.2			3 4 4	S-4		Stiff, wet; brown SILT with 30% ORGANICS
								Bottom of Boring at 16.5 feet. Gas probe installed to depth of 13.3 feet.

Sampler Type (ST):

-  2" Split Spoon Sampler
-  No Recovery
-  3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: **RRH**
Approved by: **JJS**

Figure No. **A - 28**

SPARKGP SPRK3_99 GP
May 29, 2000

Project Name: South Park Custodial Landfill
 Location: Seattle, Washington
 Drilling Method: Hollow Stem Auger 10.5" OD/6" ID
 Sampling Method: 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop
 Surface Elevation: 21.94
 Water Depth (ft bgs): 12.7
 Start Date: September 16, 1999
 Finish Date: September 16, 1999

Depth feet	Gas Probe Construction	Methane %	ST	Blows/6"	Sample ID	Mt. Graphic	Description
0	Locking, 8" Steel Monument						REFUSE
0-1	Concrete seal						Medium dense, moist; dark brown SAND with GRAVEL and DEBRIS; debris includes wood, metal, plastic, copper wire - cuttings contain steel, plastic, wood, trace paper, fiberglass roofing
1-5	Bentonite chips	0		14 19 4	S-1		
5-6	Filter pack, pea gravel						
6-7	Well screen 2" ID SCH 40 PVC, 0.04" slot size	0		6 5 7	S-2		Medium dense, moist SAND with SILT; 80% wood, trace glass; low recovery
7-9	PVC slip cap, SS screws	0.1		6 4 9	S-3		Medium dense, moist SAND little GRAVEL; est. 50% wood, metal, plastic; low recovery
9-12.7	12.7 ft bgs ATD, 9/16/99, casing at 15.0 ft bgs	0.2		26 8 2	S-4		- no recovery
12.7-15	Bentonite chips	0.1		14 4 4	S-5		- firm? no recovery - driving on wood
15-16.5							Bottom of boring at 16.5 feet. Gas probe installed to depth of 11.3 feet.

Sampler Type (ST):
 2" Split Spoon Sampler
 No Recovery
 3" Split Spoon Sampler

Lab Tests:
 G - Grain Size
 M - Moisture Content
 Water Level (Date of Measurement)
 Water Level (ATD)

Logged by: RRH
 Approved by: JJS

Figure No. A - 29

SPARKGP_SPRK3_99_GP1_February 29, 2000

Project Number
BV97041

Well Number
GP-23

Sheet
1 of 1

Project Name South Park Custodial Landfill

Surface Elevation 10.51

Location Seattle, Washington

Water Depth (ft bgs) 6

Drilling Method Hollow Stem Auger 10.5" OD/6" ID




Start Date September 20, 1999

Sampling Method 2" diameter, Split Spoon Sampler, 140 lb hammer, 30-inch drop



Finish Date September 20, 1999

Depth feet	Gas Probe Construction	Methane %	S T	Blows/ 6"	Sample ID	Mil. Graphic	Description
0	Locking, 8" Steel Monument						Dense, dry; brown GRAVEL; little SAND, few silt
1	Concrete seal						
2		0		5	S-1		Medium dense, damp; dark red-brown SAND; sand fine to medium and angular
3	Bentonite chips			9			
4				12			
5	Filler pack, pea gravel						
6	Well screen 2" ID SCH 40 PVC 0.04" slot size			2	S-2		- grades damp to wet, dark brown to black sand
6	6.0 ft bgs ATD, 9/20/99			6			
6	PVC slip cap, SS screws						
7							Bottom of boring at 6.5 feet. Gas probe installed to depth of 6.3 feet.
8							
9							

Sampler Type (ST):

-  2" Split Spoon Sampler
-  No Recovery
-  3" Split Spoon Sampler

Lab Tests:

- G - Grain Size
- M - Moisture Content
-  Water Level (Date of Measurement)
-  Water Level (ATD)

Logged by: RRH

Approved by: JJS

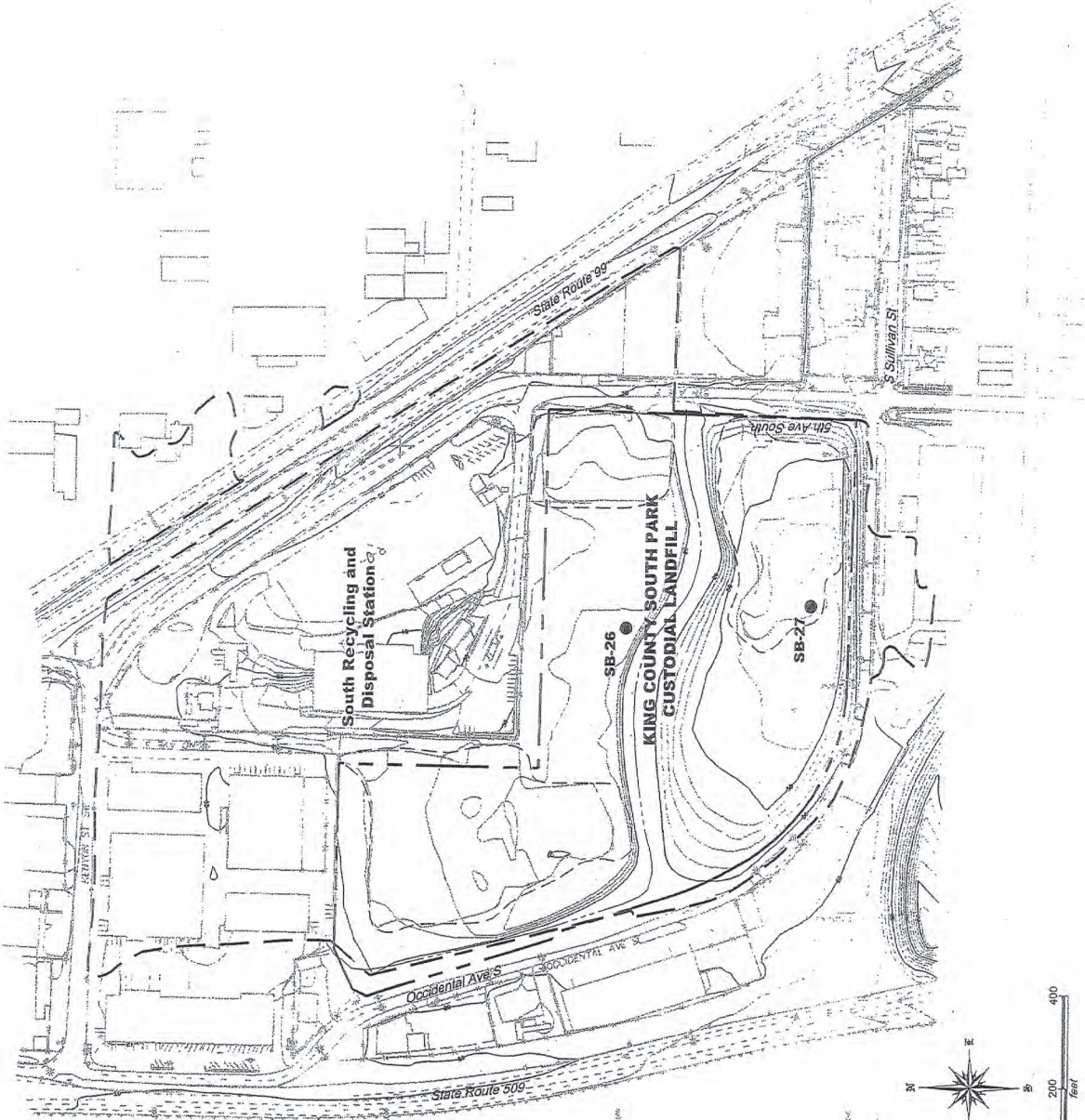
Figure No. A - 30

Historical SPPD Soil Borings

LEGEND

- Landfill Boundary
 (Approximate, based on air photo interpretation and soil borings).
- King County Property Line
- Ditch (Approximate, based on basemap and air photo).
- AESI Geotechnical Soil Boring

REFERENCE: BASE MAP AND TOPOGRAPHY BY
 DEGISS AERIAL MAPPING, 5/79



Project Number
BV97041

Exploration Number

SB-26

Sheet
1 of 4

Project Name South Park Custodial Landfill

Location Seattle, Washington

Driller/Equipment Cascade Drilling/HSA 8" OD/4" ID above 25' ; Mud Rotary below 25'

Hammer Weight/Drop 140 lb / 30-inch

Ground Surface Elevation (ft) 26±

Datum

Date Start/Finish 01/31/2000-01/31

Hole Diameter (in) 4-inch

This log is part of the report prepared by Associated Earth Sciences (AESI) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	S T	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/ 6"	Blows/Foot						
							10	20	30	40			
				REFUSE									
				Medium dense, moist, dark brown REFUSE in silt matrix; refuse includes wood, paper, and brick									
5		S-1				22 18 15							0
		S-2		No recovery		8 7 5							0.1
10													
		S-3		Dense, moist, dark brown REFUSE in silty matrix; refuse includes wood, paper, concrete and metal	12' ATD	9 12 40							50+ 0.2
15				Medium dense, wet, dark brown SAND with organic SILT; trace wood									
		S-4				8 4 10							0.1
20		S-5		No recovery		10 9 6							0
				Stiff, wet, brown-gray SILT; trace organics									
		S-6				3 4 7							0

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- ∇ - Static Water Level
- ∇ - Water Level at time of drilling (ATD)

Logged by: RRH

Approved by: JJS

Figure No. A - 39

Project Number
BV97041

Exploration Number
SB-26

Sheet
2 of 4

Project Name South Park Custodial Landfill

Ground Surface Elevation (ft) 26±

Location Seattle, Washington

Datum

Driller/Equipment Cascade Drilling/HSA 8" OD/4" ID above 25' ; Mud Rotary below 25'

Date Start/Finish 01/31/2000-01/31/2000

Hammer Weight/Drop 140 lb / 30-inch

Hole Diameter (in) 4-inch

This log is part of the report prepared by Associated Earth Sciences (AESI) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/Foot					
					10	20	30	40		
6	S-7		Medium dense, wet, brown SAND; little silt, sand fine to medium, angular red grains visible	6						0
8				6						
9	S-8		Medium dense, wet, black SAND; sand fine to medium, angular grains	9						
11				11						
12				12						
30	S-9			8						
				7						
				10						
35	S-10		-grades dense, predominantly medium sand	13						
				16						
				16						
40	S-11			17						
				21						
				21						
45	S-12		Dense, wet, black SAND with SILT; silt contains abundant organics	12						
				9						
				21						
			Dense, wet, brown SAND; few silt, sand predominantly fine							

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- ∇ - Static Water Level
- ∇ - Water Level at time of drilling (ATD)

Logged by: RRH

Approved by: JJS

Figure No. A - 39

Project Name South Park Custodial Landfill
 Location Seattle, Washington
 Driller/Equipment Cascade Drilling/HSA 8" OD/4" ID above 25' ; Mud Rotary below 25'
 Hammer Weight/Drop 140 lb / 30-inch

Ground Surface Elevation (ft) 26±
 Datum _____
 Date Start/Finish 01/31/2000-01/31/2000
 Hole Diameter (in) 4-inch

This log is part of the report prepared by Associated Earth Sciences (AESI) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/Foot			
					10	20	30	40
55	S-13	[Symbol]	Dense, wet, brown SAND; few silt, sand predominantly fine	19 16 14			▲	
55	S-14	[Symbol]	Dense, wet, brown SAND with SILT; silt contains abundant organics	12 14 16			▲	
60	S-15	[Symbol]	Medium dense, wet, black SAND; trace silt, trace wood, sand predominantly fine to medium	14 13 16			▲	
65	S-16	[Symbol]	Stiff, wet, brown, organic SILT with brown SAND interbeds; sand fine	8 5 12			▲	
70	S-17	[Symbol]	Soft, wet, brown organic SILT	2 1 3			▲	

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- ∇ - Static Water Level
- ∇ - Water Level at time of drilling (ATD)

Logged by: RRH
 Approved by: JJS
 Figure No. A - 39

Project Number
BV97041

Exploration Number
SB-26

Sheet
4 of 4

Project Name: South Park Custodial Landfill
 Location: Seattle, Washington
 Driller/Equipment: Cascade Drilling/HSA 8" OD/4" ID above 25' ; Mud Rotary below 25'
 Hammer Weight/Drop: 140 lb / 30-inch

Ground Surface Elevation (ft): 26±
 Datum:
 Date Start/Finish: 01/31/2000-01/31/2000
 Hole Diameter (in): 4-inch

This log is part of the report prepared by Associated Earth Sciences (AESI) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	S T	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/Foot			
						Blows/ G	10	20	30
7		S-18		Soft, wet, brown organic SILT					
7				Dense, wet, brown SAND; sand fine to medium					▲
25									
80		S-19		-grades very dense, black, angular grains					
17									
29									
28									▲ 50+
85		S-20		Very stiff, wet, brown-gray, organic SILT; few sand					
18									
17									
12									▲
90		S-21		Soft, wet, brown organic SILT					
0									
8				Medium dense, wet, gray-brown SAND; few silt, trace shell fragments					▲
10									
95		S-22		Very dense, wet, gray SAND with GRAVEL; trace silt, trace shell fragments					
19									
26									
25				Bottom of boring at 95 feet.					▲ 50+

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- ∇ - Static Water Level
- ▼ - Water Level at time of drilling (ATD)

Logged by: RRH
 Approved by: JJS
 Figure No. A - 39

AESIOR SPRIG 99.GP 01/07/2000

Project Number
BV97041

Exploration Number

Sheet
1 of 5

SB-27

Project Name South Park Custodial Landfill

Location Seattle, Washington

Driller/Equipment Cascade Drilling/HSA 8" OD/4" ID above 30' ; Mud Rotary below 30'

Hammer Weight/Drop 140 lb / 30-inch

Ground Surface Elevation (ft) 34±

Datum

Date Start/Finish 02/01/2000-02/01/2000

Hole Diameter (in) 4-inch

This log is part of the report prepared by Associated Earth Sciences (AES) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	S T	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/Foot			
						10	20	30	40
0				Stiff, moist, brown SILT; trace gravel					
5		S-1			13 16 10				0
10		S-2		REFUSE Very dense, moist, brown REFUSE in silt matrix; refuse includes glass, paper, plastic and wood	50/5"				50+ 19.5
15		S-3		-wood in silty matrix	50/6"				50+ 9.1
15		S-4		No recovery	50/1"				50+ 1.8
20		S-5		-wood, trace silt	12 8 9				4.2
20		S-6		-wood in silt matrix; creosote-like odor	50/6"				50+ 0.8
					23.8' ATD				

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- Static Water Level
- Water Level at time of drilling (ATD)

Logged by: RRH
Approved by: JJS
Figure No. A - 40

Project Name South Park Custodial Landfill

Ground Surface Elevation (ft) 34±

Location Seattle, Washington

Datum

Driller/Equipment Cascade Drilling/HSA 8" OD/4" ID above 30' ; Mud Rotary below 30'

Date Start/Finish 02/01/2000-02/01/2000

Hammer Weight/Drop 140 lb / 30-inch

Hole Diameter (in) 4-inch

This log is part of the report prepared by Associated Earth Sciences (AES) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	S T	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/Foot					
						10	20	30	40	50+	
		S-7		-wood and plastic; no soil	50/5"					50+	0.5
				SILT							
30		S-8		No recovery - trace brown silt	5 12 7						0
35		S-9		Stiff, wet, brown SILT with high organic content	3 3 8						
40		S-10		Very dense, wet, black SAND; sand predominantly medium, angular, red grains	24 26 28						50+
45		S-11		-sand grades fine to medium, trace wood	8 28 50/5"						50+

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- Static Water Level
- Water Level at time of drilling (ATD)

Logged by: RRH
Approved by: JJS
Figure No. A - 40

Project Name South Park Custodial Landfill

Location Seattle, Washington

Driller/Equipment Cascade Drilling/HSA 8" OD/4" ID above 30' ; Mud Rotary below 30'

Hammer Weight/Drop 140 lb / 30-inch

Ground Surface Elevation (ft) 34±

Datum

Date Start/Finish 02/01/2000-02/01

Hole Diameter (in) 4-inch

This log is part of the report prepared by Associated Earth Sciences (AES) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	S T	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/ 6'	Blows/Foot			
							10	20	30	40
55	○	S-12	[Symbol]	-sand predominantly medium	[Bar]	27				
						35				
						38				50+
60	○	S-13	[Symbol]	Drills easier at 53 ft.	[Bar]					
				Medium dense, wet, gray-brown SAND with SILT; sand fine		14				
						17				
65	○	S-14	[Symbol]	Drilled soft from 55-60 ft.	[Bar]					
				Dense, wet, brown SAND with SILT, with ORGANICS; with silt interbeds, sand fine		9				
						9				
70	○	S-15	[Symbol]	Very dense, wet, dark gray SAND; few silt, trace shell fragments, sand fine to medium	[Bar]	16				
						26				
						28				50+
75	○	S-16	[Symbol]	Dense, wet, dark gray SAND with SILT interbeds; trace organics and shell fragments	[Bar]	15				
						19				
						27				

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- ∇ - Static Water Level
- ∇ - Water Level at time of drilling (ATD)

Logged by: RRH
Approved by: JJS
Figure No. A - 40

Project Name South Park Custodial Landfill
 Location Seattle, Washington;
 Driller/Equipment Cascade Drilling/HSA 8" OD/4" ID above 30' ; Mud Rotary below 30'
 Hammer Weight/Drop 140 lb / 30-inch

Ground Surface Elevation (ft) 34±
 Datum _____
 Date Start/Finish 02/01/2000-02/01/2000
 Hole Diameter (in) 4-inch

This log is part of the report prepared by Associated Earth Sciences (AES) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	S T	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/Foot				
						Blows/ 6"	10	20	30	40
78-82	○	S-17		Very dense, wet, dark gray SAND with SILT laminae	38 43 38					50+ ▲
82-84	○	S-18		Soft, wet brown ORGANIC SILT	1 1 1	▲				
84-86	○	S-19		Dense, wet, brown SAND with SILT; trace shell fragments	9 23 21					▲
88-92	○	S-20		Very dense, wet, dark gray SAND; few silt, trace shell fragments	35 40 41					50+ ▲
92-95	○	S-21		Very dense, wet, gray to brown SAND with ORGANIC SILT interbeds; trace shell fragments and wood, sand fine to coarse	21 24 27					50+ ▲

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- ∇ - Static Water Level
- ▼ - Water Level at time of drilling (ATD)

Logged by: RRH
 Approved by: JJS
 Figure No. A - 40

Project Number
BV97041

Exploration Number

Sheet
5 of 5

SB-27

Project Name South Park Custodial Landfill

Location Seattle, Washington

Ground Surface Elevation (ft) 34±

Driller/Equipment Cascade Drilling/HSA 8" OD/4" ID above 30' ; Mud Rotary below 30'

Datum

Hammer Weight/Drop 140 lb / 30-inch

Date Start/Finish 02/01/2000-02/01

Hole Diameter (in) 4-inch

This log is part of the report prepared by Associated Earth Sciences (AESI) for the named project and should be read together only with that report for complete interpretation. This summary applies only to the location of this exploration and at the time of exploration. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.

Depth, ft	S T	Samples	Graphic Symbol	DESCRIPTION	Well Completion	Blows/ 6"	Blows/Foot			
							10	20	30	40
		S-22		Dense, wet, gray SAND; few silt, shell fragments		42				
				Very stiff, wet, gray SILT with CLAY, with SAND; sand fine		10	▲			
				-gravels		6				
				Very dense, wet, gray SAND with SILT; sand predominantly fine						
105		S-23		Bottom of boring at 105 feet.		50/5"				50+ ▲
110										
115										
120										

Sampler Type (ST):

- No Recovery
- 2" Split Spoon Sampler
- Grab Sample

Lab tests:

- C - Chemical Properties
- P - Permeability
- M - Moisture
- ∇ - Static Water Level
- ▼ - Water Level at time of drilling (ATD)

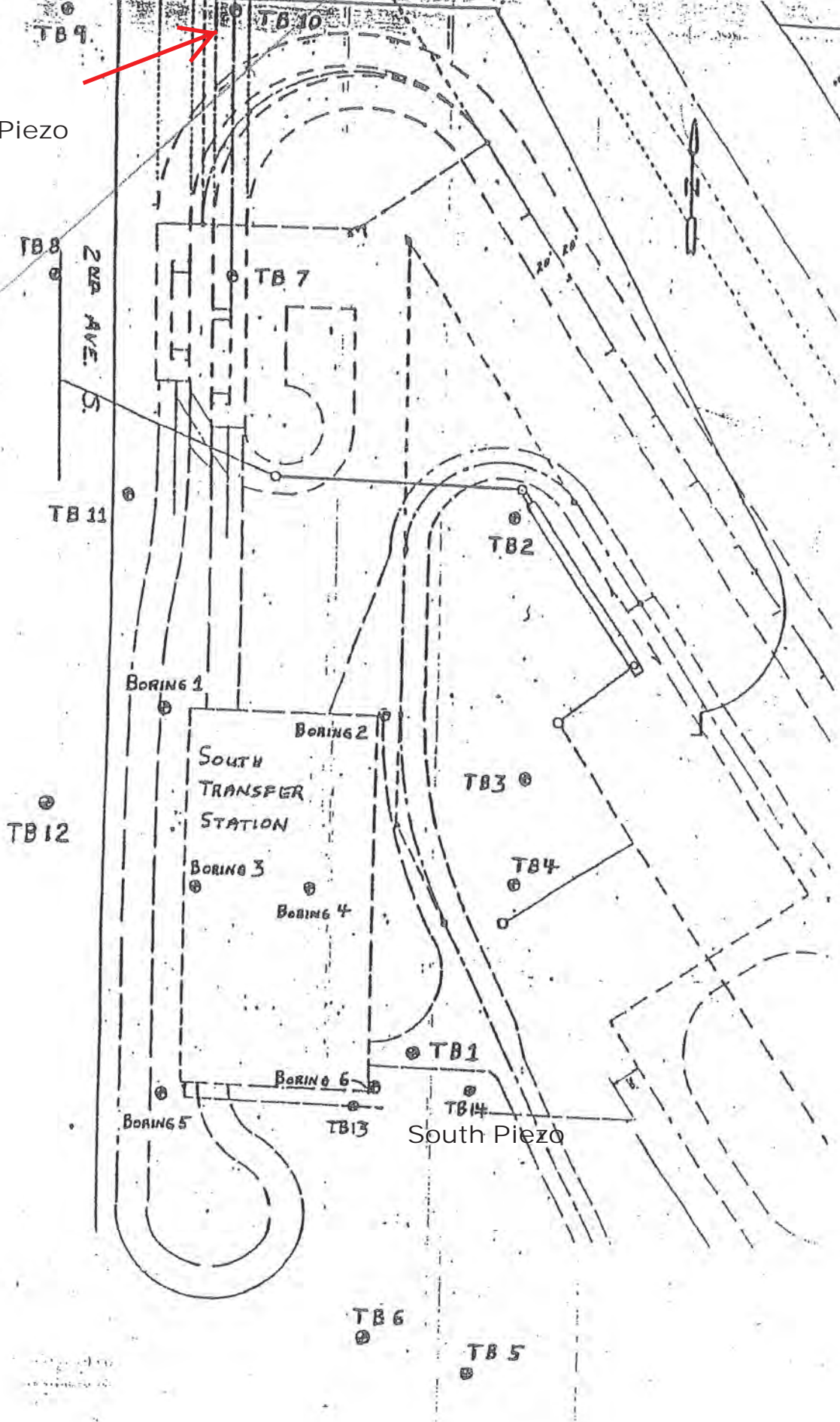
Logged by: RRH

Approved by: JJS

Figure No. A - 40

Historical SRDS Soil Borings

North Piezo



TB 8
2nd AVE. S.
TB 11

TB 12

BORING 1
BORING 2
SOUTH
TRANSFER
STATION
BORING 3
BORING 4
BORING 5
BORING 6

TB 1

TB 13
South Piezo

TB 6

TB 5

TB 10

TB 7

TB 2

TB 3

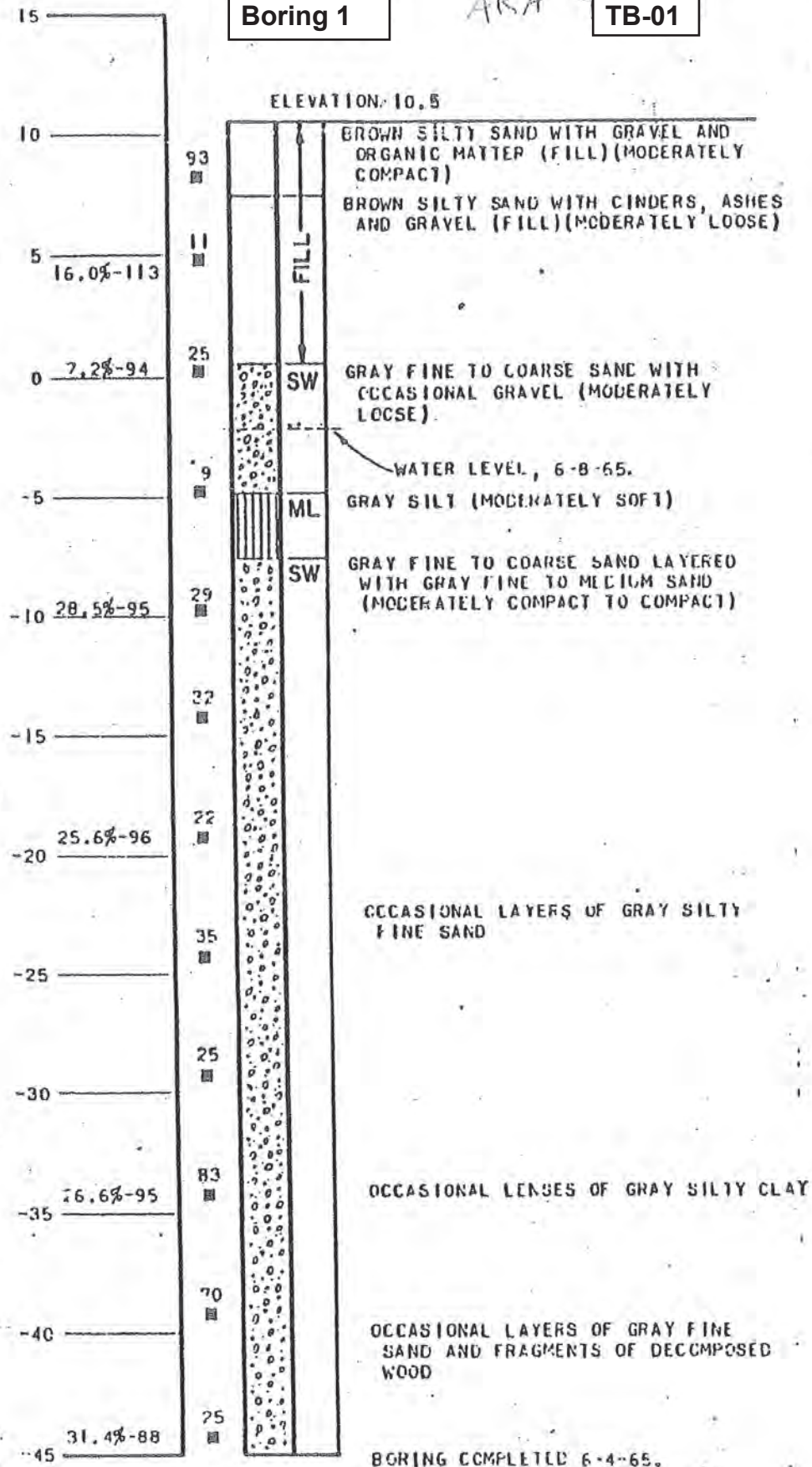
TB 4

TB 9

TB 11

North Piezo

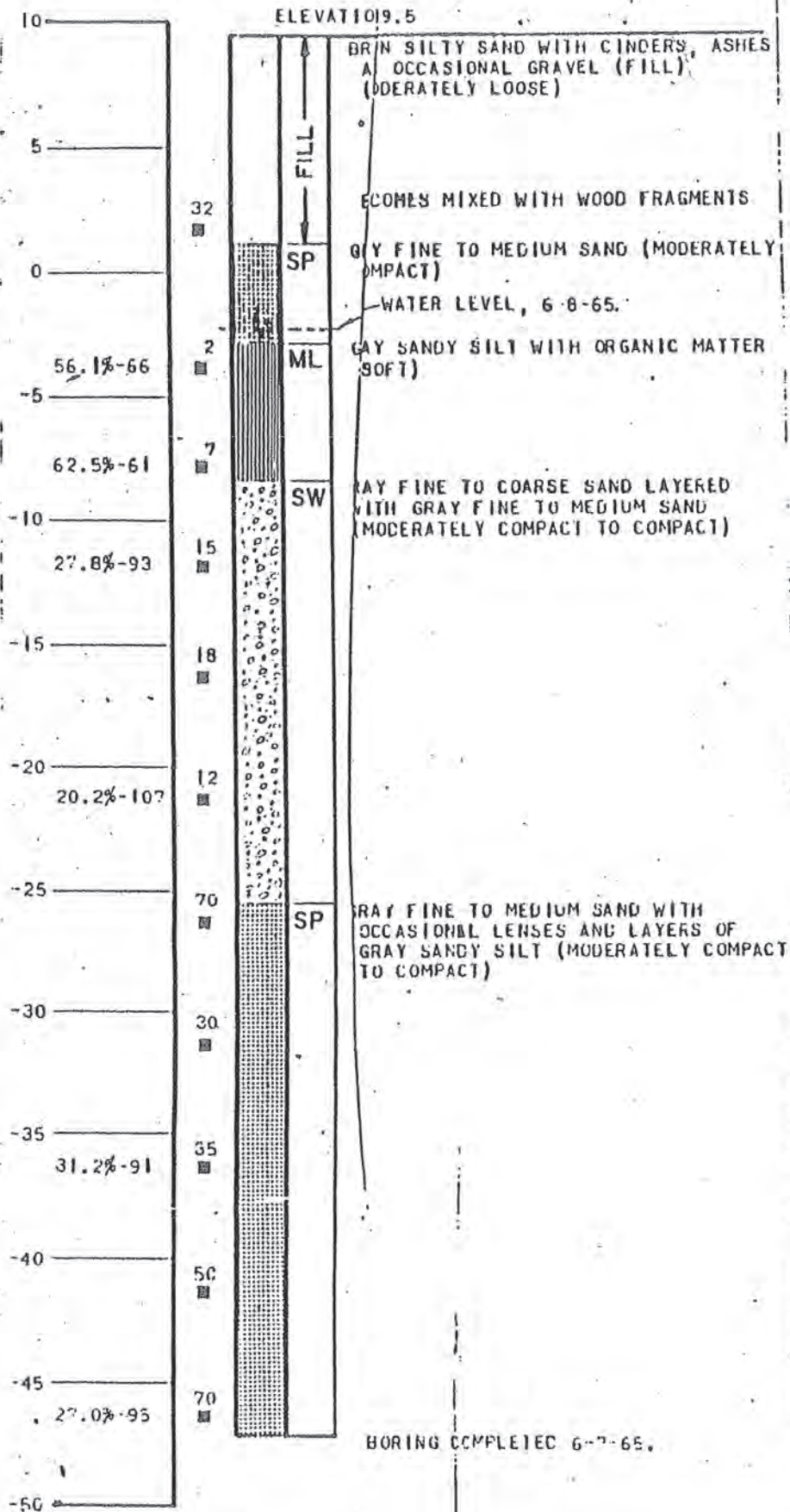
South Piezo



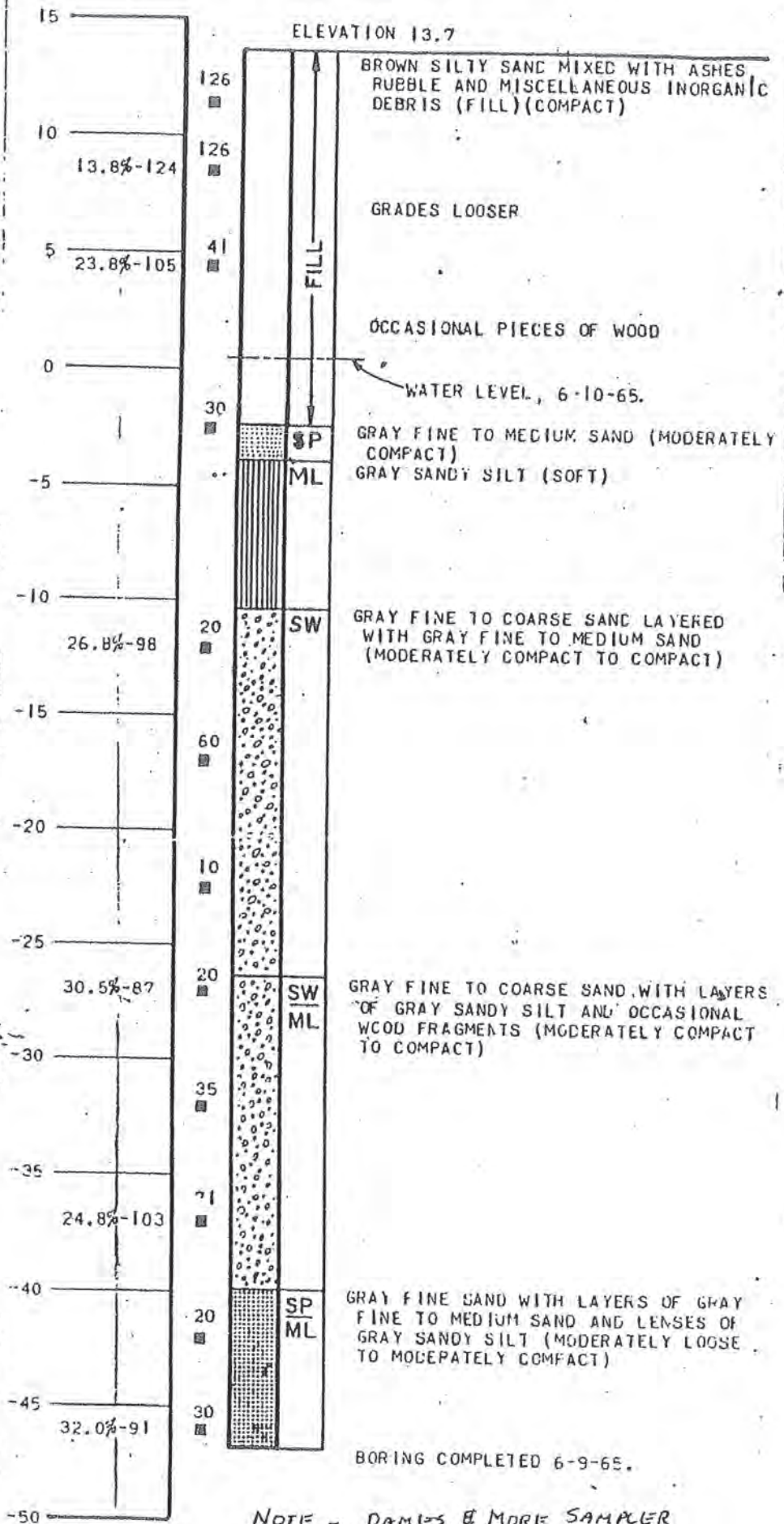
NOTE - DAWES & MORE SAMPLER
 WT. = 260 lbs. STROKE = 24 INCH

Boring 2

AKA TB-02

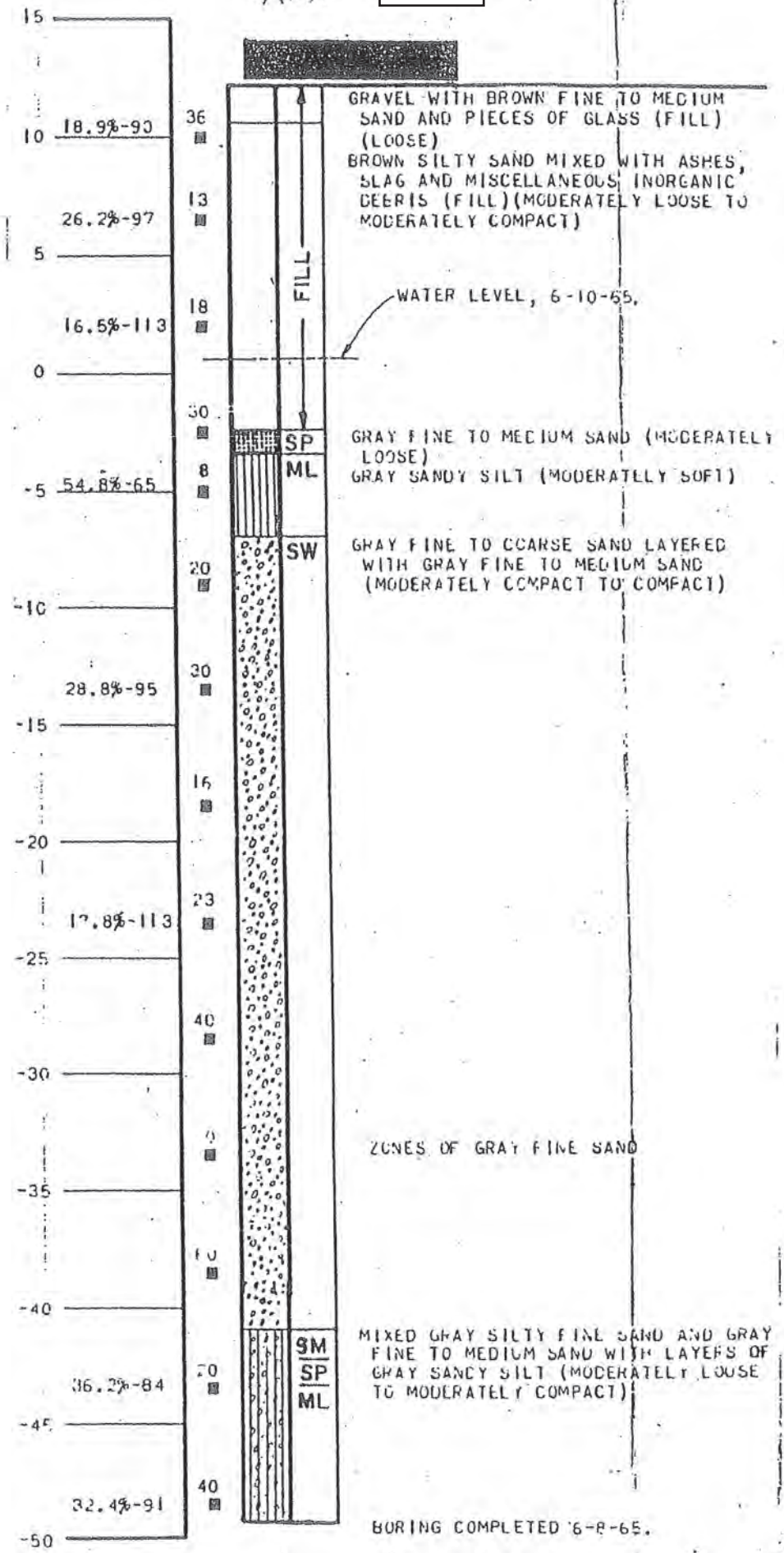


NOTE - DAMES & MORE SAMPLER
WT. = 260 lbs. STROKE = 24 INCH

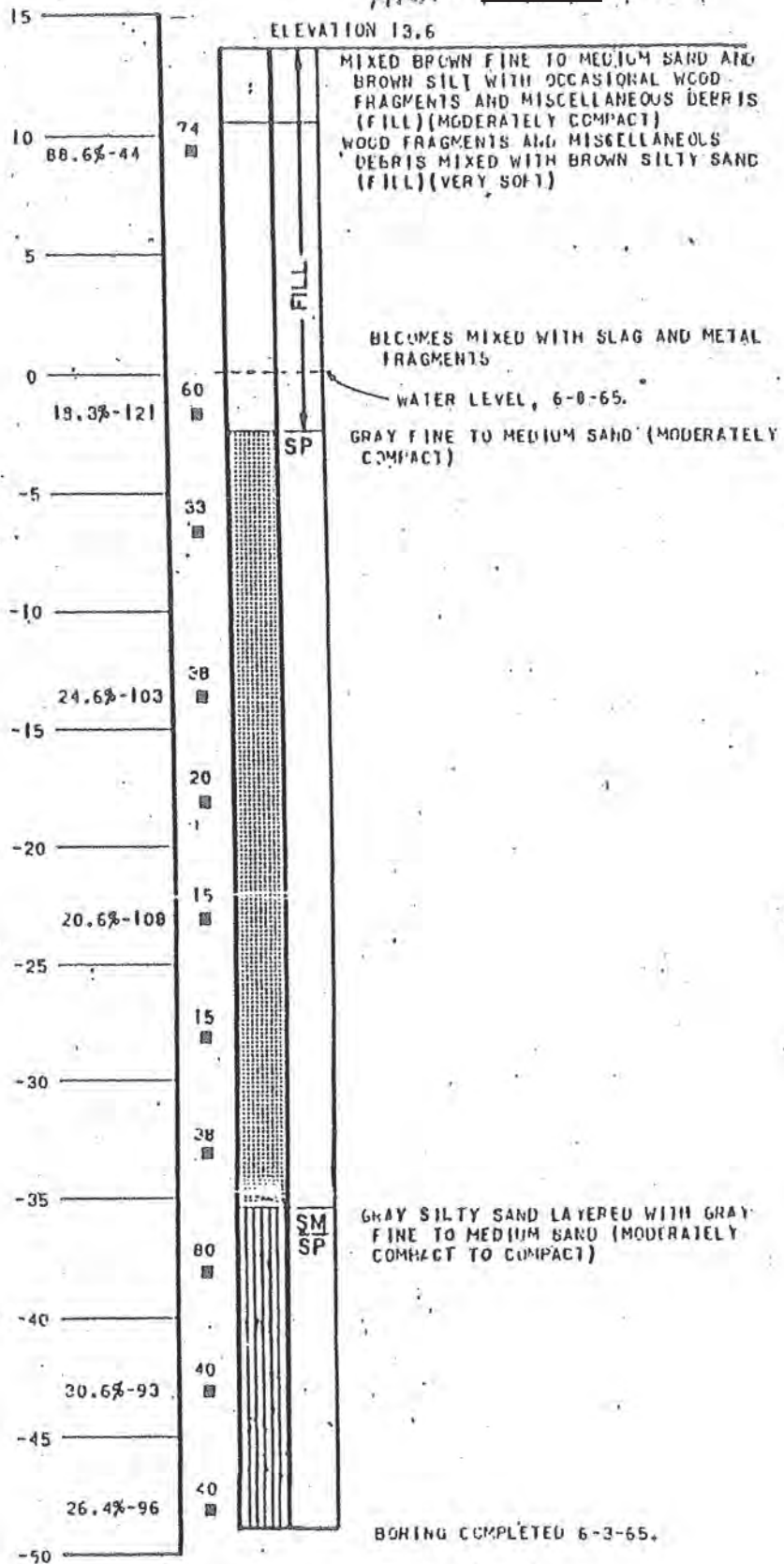


NOTE - DAMES & MOORE SAMPLER

WT. = 260 lbs. STROKE = 24 INCH

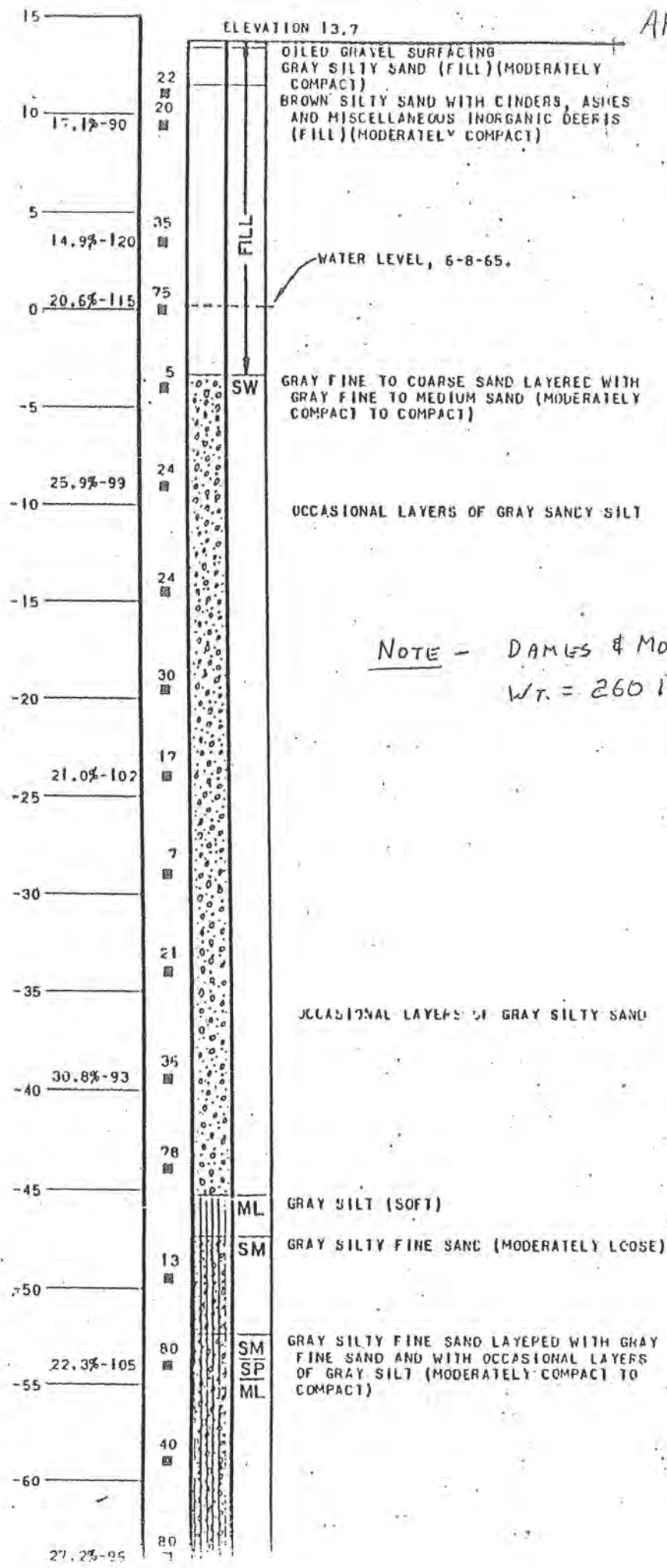


NOTE - DAMAGED & MORE SAMPLER



NOTE - DAMES & MORE SAMPLER
WT. = 260 lbs. STROKE = 24 INCH

Boring 6



NOTE - DAMES & MORE SAMPLER
WT. = 260 lbs. STROKE = 24 INCH

LOG OF TEST BORING AKA

TB-08B

DATE 12-23-88

HOLE NO. TB2

PROJECT SOUTH TRANSFER STATION - DISTURBANCE STORAGE

GRD. ELEV. 12±

LOCATION NORTH LOCATION - IN GRASS STRIP

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL	
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR		
					6" TOPSOIL					
FILL	5	A	12 10 6	16	BLOCKY FILL - SILTS, SANDS, GLASS AND ORGANICS	(FIRM)	MOIST	BLACK, BROWN, TAN		
		B	8 6 4	10	BLOCKY FILL - SANDS, SILTS, GLASS, #PICK	LOOSE	MOIST	RED, TAN, BLACK, BROWN		
SILT WITH ORGANICS	10	C	1 1 1	2	FINE SAND (TIP - FINE SANDY SILT)	V. LOOSE	WET	DARK BROWN		
		D	3 2 2	4	SILT WITH SOME ORGANICS	SOFT	8" WET 3" MOIST 7" WET	LT. GRAY DK. GRAY LT. GRAY	12-28-88	
FINE SAND WITH SEVERAL SILTY FINE SAND LENSES	15	E	2 2 2	4	SILTY VERY FINE SAND	LOOSE	WET	DARK BROWN	12-27	
		(1.5' HEAVE WITH H ₂ O FLUSH)								
		F	3 4 6	10	4" - VERY FINE SAND 4" - SILTY FINE SAND 10" - VERY FINE SAND	LOOSE	WET	DARK BROWN	5-24-88	
		(WATER FLOWING OUT A-ROD TOP OF SAMPLE FLOWED)								PIEZO. TIP
FINE SAND WITH SEVERAL SILTY FINE SAND LENSES	25	G	6 9 11	20	VERY FINE SAND (TIP - EXTREMELY FINE SAND)	FIRM	WET	DARK BROWN		
		(6" HEAVE - TOP OF SAMPLE FLOWED)								
	30	H	2 6 17	23	FINE SAND	FIRM	WET	DARK BROWN		

(CONTINUED)

INSPECTOR JON MARSH

LOG OF TEST BORING

DATE 12-23-88

HOLE NO. TB 7

PROJECT SOUTH TRANSFER STATION - DETENTION STORAGE

GRD. ELEV. 12-

LOCATION NORTH LOCATION - IN GRASS STRIP

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT		STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
						COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
FINE SAND	35'	I 9	10	11	21	(2' HEAVE WITH SPIN RECOVERY) (TOP RESAMPLE FLOWED)				
						FINE SAND	FIRM	WET	DARK BROWN	
BOH	35'					(ABANDONED 5/24/89)				6' HEAVE PIEZO. FROZE IN AUGUR STEM

INSPECTOR Jon M.

LOG OF TEST BORING

TB-07B

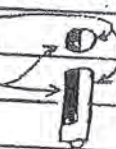
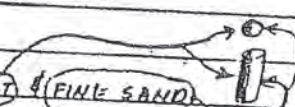
DATE 2-17-89

PROJECT SOUTH TRANSFER STATION - INSIDE SCALLES

HOLE NO. TB 1

LOCATION 35' E/O MAIN BLDG. & 35' N/O SOUTH BLDG. END (IN ASPHALT DRIVEWAY)

GRD. ELEV. 0.121

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL		
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR			
ASPHALT					12" ASPHALT PAVEMENT						
FILL	5	A	8	5	5	10	10" - FINE SAND		WET	BLACK	
								8" - FINE SANDY SILT TO SILT W/MANY VERY THIN GRAY SILT LAMINAE	LOOSE	(HYDROCARBON) SCENT	
			B	1	2	2	4	ORGANIC SILT AND ORGANIC LENSES	SOFT	WET	BLACK (HYDROCARBON) SCENT
	10		C	2	2	3	5	3" & 5" ALTERNATING LENSES OF FINE SAND & FINE SANDY SILT	LOOSE	WET	BLACK
			D	3	3	6	9	FINE SAND WITH 3" SILT BLOCK 	LOOSE	WET	BLACK
	15		E	4	11	15	26	2" SILTY FINE SAND 16" FINE SAND	FIRM	WET	BLACK
			F	6	13	14	27	FINE SAND	FIRM	WET	BLACK
	20		G	3	8	11	19	FINE SAND	FIRM	WET	BLACK
			H	1	10	15	25	5' HEAVE W/H ₂ O FLUSH 8" FINE SAND 4" SILT & FINE SANDY SILT	FIRM	WET	BLACK
	25		I	5	8	13	21	4" SILT & FINE SAND 		WET	
							10" FINE SAND 1/2" ORGANIC 3 1/2" VERY FINE SAND	FIRM	WET	BLACK	
BO.H.	30										

5-24-89
2-22-89
2-21-89
2-27-89

PIEZO.
TIP

(ABANDONED 5-24-89)

INSPECTOR JOH M.

LOG OF TEST BORING

TB-07C

DATE 9-26-89

HOLE NO. TB 7

PROJECT SOUTH TRANSFER STATION

GRD. ELEV. 12+

LOCATION 280' N/10 & 20' W/10 NORTHWEST CORNER OF MAIN BUILDING (34' E/10 FENCE)

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
FINE SAND WITH OCCASIONAL THIN SILT LENS					(6 INCH HEAVE)				
		G 2	15 28	4.3	FINE SAND (WEAK ORGANIC SCENT)	DENSE	WET	BROWN	
	35								
		X H	- - -	- - -	(4' HEAVE - UNABLE TO FLUSH) HEAVED FINE SAND (WEAK ORGANIC SCENT)	- - -	WET	BROWN	
	40								
		I	18 31 33	64	(1.5' HEAVE) FINE SAND WITH 1.5" SILT LENS (WEAK ORGANIC SCENT)	VERY DENSE	WET	BROWN	
	15								
		J	8 12 28	40	FINE SAND GRADING TO VERY FINE SAND W/ SOME SILT	DENSE	WET	BROWN	
	50								
		K	15 16 26	42	(8" HEAVE) VERY FINE SAND	DENSE	WET	BROWN	
55									
	L	3 10 23	33	VERY FINE SAND	DENSE	WET	BROWN		
60									
B.O.H.									

INSPECTOR JOH M.

LOG OF TEST BORING AKA

TB-09B

TB-09

DATE 12-27-88

HOLE NO. TB 3

PROJECT SOUTH TRANSFER STATION - DETENTION STORAGE GRD. ELEV. 157

LOCATION MIDDLE LOCATION - NORTH PORTION OF PARKING LOT

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
3" ASPHALT					NOTE - MOVED/RELOCATED 2X. OBSTRUCTIONS HIT WERE PIPES, CONCRETE RUBBLE, GLASS AND TRANSFORMERS.				
FILL	5	A	2 2 4	6	BURNT PRODUCTS, SILT, SAND	LOOSE	MOIST	WHITE TAN BROWN	↓
		B	2 2 2	4	GLASS, WIRE, SILT, SAND, BURNT PRODUCTS	V. LOOSE	MOIST		
		C	2 8 23	31	FILL BOT 6" - FINE SAND	(COMPACT)	MOIST	BLACK	
FINE SAND AND SILT LAYERS WITH BURNT ORGANICS	10				1/2" - FINE SAND			BROWN	12-28-88
		D	1 1 2	3	17 1/2" - SILT (BURNT ORGANIC IN TIP)	SOFT	WET	BLACK GRAY BROWN	12-27-88
		E	6 6 6	12	FINE SAND	FIRM	WET	DARK BROWN	5-24-89
BOH	20				(ABANDONED 5-24-89)				PIEZO.716

INSPECTOR JON MARSH

LOG OF TEST BORING

TB-10

DATE 12-27-88

AKA TB-10

HOLE NO. TB 4

PROJECT SOUTH TRANSFER STATION - DISENTRON STORAGE

GRD. ELEV. 1

LOCATION SOUTH LOCATION - 60' E/O GAS PUMP & 120' W/O & ACCESS ROAD

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT		STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL	
						COMPOSITION	CONSISTENCY	MOISTURE	COLOR		
FILL DEBRIS						ALLIER SPOILS ARE WIRE, METALS, BRICK, CONCRETE, ... VERY ROUGH DRILLING TO 7.5 FT.					
		A	B	8	11	19	BRICK, SILT AND SAND	(FIRM)	MOIST	RED, BROWN	
	5	B	42	26	11	37	(POSSIBLY CONTACT WITH OBJECT) SILT, SAND, BRICK, ASH	(COMPACT)	MOIST	WHITE, RED, TAN, BROWN	
		C	11	28	31	59	VERY SILTY, ORGANIC, BRICK	(V. COMPACT)	WET	BLACK	
FINE SAND		D	5	5	4	9	FREE WATER IN A-ROD SAMPLE FLOWED	LOOSE			∇ = 12-28-88
	15						WIRE, SILT, DEBRIS IN PIPE		WET	GRAY BROWN	∇ = 12-27-88 5-24-88
							(HYDROCARBON SCIENT FROM) 14' TO BOH				
BOH	20	E	6	6	7	13	FINE SAND	FIRM	WET	DARK BROWN	PIEZO. TIP
						NOTE - FROM 25' TO 85' (\pm) NORTH IS S. ELM GROVE ST. RIGHT-OF-WAY. SURFACE IS 2" ASPHALT OVER ?' DEPTH CONCRETE BASE.					

(ABANDONED 5-24-89)

INSPECTOR JON MARSH

LOG OF TEST BORING AKA TB-11

TB-11

DATE 5-27-88

PROJECT S Transira STA

HOLE NO. TB 5

LOCATION 3' SW STA. 15+13 (State Stations)

GRD. ELEV. _____

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT			STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL	
							COMPOSITION	CONSISTENCY	MOISTURE	COLOR		
	5	A	2	3	4	7	SILTY SAND w/ gravel bricks & misc.	loose	damp	red- brown		
	10	B	2	1	1	2	brick, sand & gravel & misc garbage	loose	damp	yellow/ rust		
	15	C	6	11	8	19	sand (fine)	Firm	SAT	black		
	20	D	1/12"	1	1	1	layered SILTY fine sand and SILT w/ decomposed ROOTS	v. soft	wet	gray		
	25	E	2	1	1	2	sand	loose	sat.	black		
	30	drilled to 27.5', 6 feet of heave, WE WERE UNABLE TO FLUSH, NO SAMPLE TAKEN.										

≠ 15' 1"

B017

INSPECTOR SPC

LOG OF TEST BORING

TB-12A

DATE 5-27-88

AKA. TB-12

PROJECT S Transfire Station

HOLE NO. TB 6

LOCATION Sta. 15+22, South 12' (State Stations)

GRD. ELEV. _____

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT		STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL	
						COMPOSITION	CONSISTENCY	MOISTURE	COLOR		
						bit resistance at 2.5' moved 3'					
	5	A	7	21	21	44	brick, glass, metal, concrete and soil	hard	damp	gray	
	10	B	3	4	5	9	brick, bolts & dirt easier drilling @ 10'	loose	damp	gray	
	15	C	21	37	33	70	sand & gravel with misc. garbage	comp	damp	gray	
	20	D	3	2	2	4	layered silt and fine sand, decomposed roots in silt-	loose	wet	gray	
	25	E	1	PUSH	2	2	No Recovery				
							drilled to 27.5 with sampler "floating" in auger. At 27.5' we were unable to pull sampler free. Pulled everything out of the hole.				

Piezo destroyed

BOH

INSPECTOR SPC

LOG OF TEST BORING

DATE 9-26-89

AKA - TB-13

HOLE NO. **TB 7**

PROJECT SOUTH TRANSFER STATION

GRD. ELEV. 12±

LOCATION 280' N/O & 20' W/O NORTHWEST CORNER OF MAIN BUILDING (34' E/O FENCE)

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
					4" ASPHALT				
IMPORTED GRAVELLY SAND FILL	5	A 9	9 11	20	GRAVELLY COARSE SAND w/TRACE ORGANICS (FILL) (WEAK ORGANIC SCENT) (LARGE GRAVEL IN TIP)	FIRM	SLIGHTLY MOIST	BROWN	
		B 3	3 7	10	FINE WOOD FIBER w/BLACK SLIGHT SAND AND CRUSHED ROCK (WEAK ORGANIC SCENT)	LOOSE	MOIST	BROWN	
LANDFILL MATERIALS MIXED WITH SAND	15	C 12	10 7	17	(SAMPLE FLOWED) WOOD AND SILT w/SOME FINE SAND (WEAK ORGANIC SCENT)	FIRM	WET	BROWN	10-9-89
		D 4	6 11	17	(SAMPLE FLOWED) EXTREMELY FINE SAND (WEAK ORGANIC SCENT)	FIRM	WET	BROWN	9-28-89
FINE SAND	25	E 8	14 23	37	VERY FINE SAND (WEAK ORGANIC SCENT)	DENSE	WET	BROWN	
		F 2	3 28	31	FINE SAND (WEAK ORGANIC SCENT)	DENSE	WET	BROWN	

PIEZO TIP

(CONTINUED NEXT SHEET)

INSPECTOR Jon M.

LOG OF TEST BORING

DATE 9-26-89

AKA TB-14

HOLE NO. TB 8

PROJECT SOUTH TRANSFER STATION

GRD. ELEV. 121

LOCATION 280' N/O & 96' W/O NORTHWEST CORNER OF MAIN BUILDING (42' W/O FENCE)

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
ASPHALT					2" ASPHALT				
LAND FILL MATERIALS		A	7 7 10 17		SANDY SILT w/WOOD, GLASS, METAL (STRONG PETROLEUM SCENT)	FIRM	WET	BLACK	
		B	3 4 5 9		UPPER SANDY SILT & SILT w. ORGANICS GRADING TO LOWER VERY FINE SAND (STRONG PETROLEUM SCENT)	LOOSE	WET	BLACK	
		C	7 4 15 19		SILTY SAND w/FINE CRUSHED ROCK & ORGANICS (STRONG PETROLEUM SCENT)	FIRM	WET	BLACK	
		D	3 3 3 6		4" FINE CRUSHED ROCK AND SAND 14" VERY FINE SAND (PETROLEUM SCENT)	LOOSE	WET	BLACK	
FINE SAND		E	7 13 17 30		FINE SAND (PETROLEUM SCENT)	FIRM	WET	BLACKISH BROWN	
		F	5 6 14 20		FINE SAND (PETROLEUM SCENT)	FIRM	WET	BLACKISH BROWN	
	B.O.H.								

10-9-89
9-28-8

PIEZO. TIP
NOTE - REPEATED, CONTINUOUS HEAVING DURING PIEZO. INSTALLATION.

INSPECTOR JOH M.

LOG OF TEST BORING

TB-15

DATE 9-27-89

AKA TB-15

HOLE NO. TB 9

PROJECT SOUTH TRANSFER STATION

GRD. ELEV. 1

LOCATION 450' N/O & 89' W/O NORTHWEST CORNER OF MAIN BUILDING (35' W/O FENCE)

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
					1" ASPHALT OVERLAY				
	5'	A 50/4			SANDY GRAVEL W/ CINDER & CRUSHED ROCK (NO SCENT) (WHEN AUGERING RESUMED) STRONG PETROLEUM SCENT	VERY DENSE	SLIGHTLY MOIST	GRAY BROWN	
	10'	B 50/6			FINE CRUSHED ROCK & GRAVEL W/ SAND (DIESEL FUEL SCENT)	VERY DENSE	SLIGHTLY MOIST	BROWN	
	15'	C 36 7 9 16			3" CRUSHED ROCK & SAND 15" FINE SAND (DIESEL FUEL SCENT)	FIRM	WET VERY MOIST	BLACK BLACK	
B.O.H.					(ABANDONED)				

VERY ROUGH DRILLING
 SPOILS CONTAINED COBBLE & LARGE GRAVEL

LANDFILL MATERIALS

NO
PIEZO,

INSPECTOR Jon M.

LOG OF TEST BORING

DATE 9-27-89

AKA RI North Piezo

HOLE NO. **TB 10**

PROJECT SOUTH TRANSFER STATION

GRD. ELEV. 12±

LOCATION 457' N/O & 22' W/O NORTHWEST CORNER OF MAIN BUILDING (32' E/O FENCE)

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
LAND FILL MATERIALS	5	A	3 2 3 5		SAND, SILT, SLIGHT GRAVEL, WOOD, ORGANICS (PETROLEUM SLENT)	LOOSE	MOIST	BROWN BLACK & GRAY	SM
		B	5 7 14 21		LENSES = SILT, FINE SAND, EXTREMELY FINE SAND & GRAVELLY SAND (DIESEL FUEL SLENT)	FIRM	VERY MOIST	GRAY BROWNISH BLACK	SP
SILT AND FINE SAND	15	C	2 3 5 8		3" FINE SAND (DIESEL FUEL SLENT) 15" SILT W/ SLIGHT FINE SAND (LOW PLASTICITY LOW TOUGHNESS) (FAINT DIESEL FUEL SLENT)	MEDIUM STIFF	VERY MOIST MOIST	BROWNISH BLACK BROWN	10-9-89 D V = 9-28-89 ML
		D	4 4 4 8		MANY THIN LAMINAE OF VERY FINE SAND (FAINT DIESEL FUEL SLENT)	LOOSE	VERY MOIST	BROWN	PIEZO SP
B.O.H.	20								

INSPECTOR JON M.

LOG OF TEST BORING

TB-17

DATE 5-24-89

AREA TB-17

HOLE NO. TB 11

PROJECT SOUTH TRANSFER STATION - DETENTION STORAGE

GRD. ELEV. 12

LOCATION 163' N/O & 44' W/O NORTHWEST CORNER OF MAIN BUILDING (10' E/O FENCE)

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT			SID. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL	
							COMPOSITION	CONSISTENCY	MOISTURE	COLOR		
TOPSOIL							TOPSOIL - TO 2'					
LAND FILL MATERIALS	5	A	8	10	6	16	8" SILT, SAND, GRAVEL, BURNT PRODUCTS - FILL (NO SCENT)	FIRM	SLIGHTLY MOIST	RED BROWN TAN		
		B	2	5	3	8	3" - ? CONCRETE - FILL 3" - UNIFORM FINE SAND (NO SCENT)	LOOSE	MOIST	RED TAN DARK BROWN		
FINE SAND	15	C	3	6	3	9	UNIFORM FINE SAND (*) (? - POSSIBLE SCENT)	LOOSE	WET	DARK BROWN		
	20	D	2	3	4	7	2" - UNIFORM FINE SAND 8" - VERY FINE SAND (*) w/ SOME SILT (? - POSSIBLE SCENT) [NOTE - A-ROD WET TO 19.5']	LOOSE		DARK BROWN GRAY		6-15-89 5-31-89
	25	E	PUSH	2	2	2	14" - UNIFORM FINE SAND (*) (? - POSSIBLE SCENT)	VERY LOOSE		DARK BROWN		
	30	F	2	4	5	9	14" - UNIFORM FINE SAND (*) (? - POSSIBLE SCENT)	LOOSE				

(*) - SAMPLES FLOWED INSPECTOR JOH M.

LOG OF TEST BORING

TB-18

DATE 1-16-73

AKA TB-18

HOLE NO. TB 12

PROJECT S. WEBSTER SAN. SEWER

GRD. ELEV. _____

LOCATION 2ND AVE. S. & S. ELMGROVE SE. CORNER ?

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
100% - FIRM GARBAGE MIXTURE ASH, GLASS, METAL, WOOD	11	A	1 3 4	7	MIX - ASH - GLASS SAND - WIRE - GRAVEL - ROCKS		MOIST	BRN	1-16-73 3' 1-24-73 1' 1-18-75 0' 3' 3'
					MIX - ASH - GLASS SAND - WOOD (GARBAGE)	LOOSE	WET	BRN	
	10	B	5 3 1	4	TO RECOVERY	LOOSE			
					LOW WET				
	15	C	3 14 9	23	MIX - SAND - WOOD (GARBAGE)	FIRM	SAT	GRY BLK	
	20	D	1 1 1		SILT w/ ORGANIC (PEAT)	VERY	MOIST	BRN	
					HEAVED 6"				
	25	E	3 4 6	10	SAND FINE - MED	LOOSE	SAT	BLK	

INSPECTOR HOW KORTX

1-16-73 3'
 1-24-73 1'
 1-18-75 0'
 3'
 3'

LOG OF TEST BORING

1 OF 2

DATE 4-14-92

AKA TB-19

HOLE NO. TB 13

PROJECT S. Transfer Station - Retaining Wall

GRD. ELEV. 20.3 ±

LOCATION SE Corner Transfer Sta. building 8' so. & 4' w.

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
FILL	5	A 50/3"			SILTY SAND w/ FRACTURES ROCK IN TIP PUSHING ROCK FROM 25'-6'		MOIST	DK BROWN	
	10	B 2 2 3 5			SILTY SAND & GRAVEL	LOOSE	MOIST	BROWN	
DISTURBED NATIVE FILL & SAND WITH SILT	15	C 1 1 3 4			SLIGHTLY SILTY FINE SAND w/ GRAVEL - WOOD NEAR TIP THIN SILT LAYER @ TIP	LOOSE	MOIST	LIGHT BROWN	
	20	D 8 14 18 32			3" LAYER OF SILT, RELATIVELY CLEAN MEDIUM TO FINE SAND w/ OCCASIONAL GRAVEL		MOIST	BROWN	
NATIVE FINE SAND WITH SILT	25	E 3 1 3 4			SILTY FINE SAND BOTTOM 6" - SILT w/ ORGANICS	LOOSE	WET TO SATURATED	BROWN TO GREY (TOP TO BOTTOM)	
	30	F 3 3 3 6			CLEAN FINE SAND	LOOSE	SATURATED	BROWN TO GREY (TOP TO BOTTOM)	

Beaufortite Seal

2" drill with pea gravel from 15 to 30"

10" silted tip

4/16/92

INSPECTOR

7 bags pea gravel
9" beaufortite

AL RICE
JON SHIMODA

LOG OF TEST BORING

TB-20

DATE 4-14-92

AKA ^{TB-20} RI South Piezo

HOLE NO. TB 14

PROJECT S. TRANSFER STATION - RETAINING WALL

GRD. ELEV. 8.8 ±

LOCATION EAST FACE, SOUTH END MAIN BLDG. - 12' E/O & 16' S/O LIGHT POLE

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL:				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
	5	A	2 2 6	8	(A1) SANDY SILT w/ WOOD - TOP 6" (A2) FINE TO MEDIUM SAND - BOTTOM 6"	MOIST	MOIST	BROWN BLACK	
	10	B	3 3 5	8	TOP 3" SILTY FINE SAND w/ GRAVEL, TRACE BELL & ORG. CLEAN FINE TO MEDIUM SAND w/ (DUNAMISH) SOME COARSE SAND - BOTTOM 5"	SATURATED	SATURATED	BROWN BLACK	4/16/92
	15	C	2 3 11	14	TOP 6" - CLEAN FINE TO MED. SAND w/ SOME COARSE SAND (DUNAMISH) BOTTOM 12" - SILT w/ ORGANICS (ORGANIC ODOR) (2" OF WOOD IN TOP)	SATURATED	WET	BLACK DIE BROWN MOTTLED w/ BLACK SPOTS	Stuffed for water ground level
	20	D	6 7 8	15	TOP 6" - FINE TO MED. SAND WOOD PIECE IN BETWEEN UNFORS BOTTOM 10" - CLEAN FINE SAND @ 22" - HEAVED 1" DRILLER FLUSH w/ WATER	SATURATED	SATURATED	BLACK BLACK	
	25	E	5 6 8	14	CLEAN FINE TO MED SAND (DUNAMISH)	SATURATED	SATURATED	BLACK BLACK	
	30	F	4 5 10	15	CLEAN FINE TO COARSE SAND (DUNAMISH)	SATURATED	SATURATED	BLACK BLACK	

1 1/2 SKS BENTONITE
2 SKS PEA GRAVEL

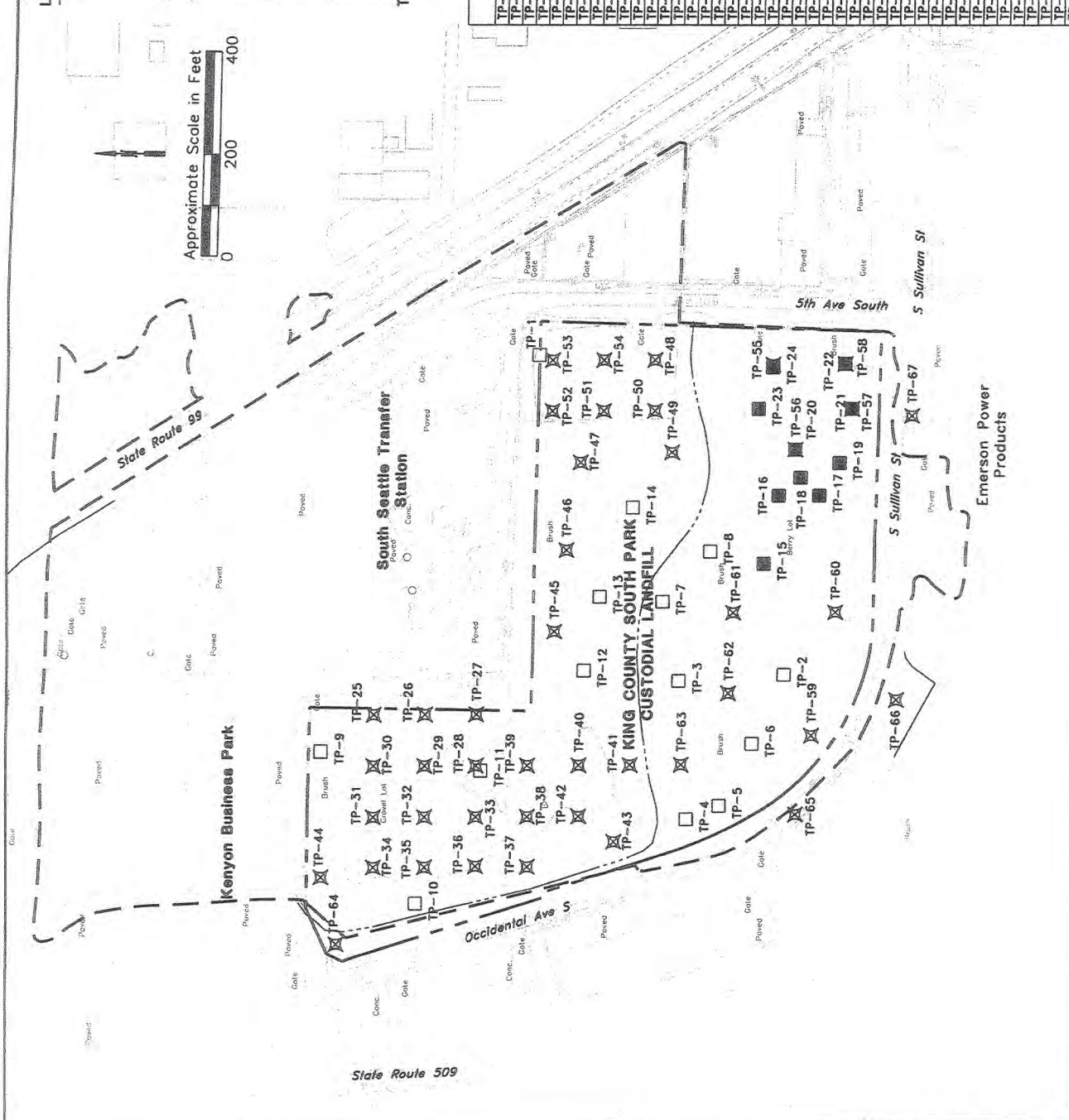
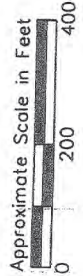
INSPECTOR AL RICE
JON SHIMADA

Historical Test Pits

REFERENCES: BASE MAP AND TOPOGRAPHY BY DEROSS AERIAL MAPPING, 3/7/97

LEGEND

- Landfill Boundary (Approximate, based on Air photo interpretation and soil borings).
- King County Property Line
- Ditch (Approximate, based on basemap and air photo).
- Test Pits TP-1 thru TP-14 Completed by Uddaly Environmental Services, April 1997.
- Test Pits TP-15 thru TP-24 Completed by Olympus Environmental, October 1997.
- Test Pits TP-25 thru TP-67 Completed by Associated Earth Sciences, May/June 1998.



Test Pit Location	Test Pit Location
TP-1 N 196682 E 1270102	TP-44 N 197102 E 1261881
TP-2 N 196200 E 1270375	TP-45 N 196650 E 1270343
TP-3 N 196407 E 1270364	TP-46 N 19678 E 1270343
TP-4 N 196389 E 1270093	TP-47 N 196600 E 1270343
TP-5 N 196325 E 1270119	TP-48 N 196416 E 1270343
TP-6 N 196261 E 1270240	TP-49 N 196416 E 1270343
TP-7 N 196438 E 1270522	TP-50 N 196416 E 1270343
TP-8 N 196345 E 1270622	TP-51 N 196416 E 1270343
TP-9 N 197103 E 1270229	TP-52 N 196416 E 1270343
TP-10 N 196917 E 1269928	TP-53 N 196416 E 1270343
TP-11 N 196791 E 1270180	TP-54 N 196416 E 1270343
TP-12 N 196592 E 1270385	TP-55 N 196416 E 1270343
TP-13 N 196562 E 1270533	TP-56 N 196416 E 1270343
TP-14 N 196497 E 1270710	TP-57 N 196416 E 1270343
TP-15 N 196240 E 1270598	TP-58 N 196416 E 1270343
TP-16 N 196211 E 1270733	TP-59 N 196416 E 1270343
TP-17 N 196132 E 1270733	TP-60 N 196416 E 1270343
TP-18 N 196169 E 1270769	TP-61 N 196416 E 1270343
TP-19 N 196093 E 1270798	TP-62 N 196416 E 1270343
TP-20 N 196178 E 1270824	TP-63 N 196416 E 1270343
TP-21 N 196069 E 1270805	TP-64 N 196416 E 1270343
TP-22 N 196083 E 1270894	TP-65 N 196416 E 1270343
TP-23 N 196252 E 1270805	TP-66 N 196416 E 1270343
TP-24 N 196224 E 1270983	TP-67 N 196416 E 1270343
TP-25 N 197000 E 1270300	
TP-26 N 196900 E 1270300	
TP-27 N 196800 E 1270300	
TP-28 N 196800 E 1270200	
TP-29 N 196900 E 1270200	
TP-30 N 197000 E 1270100	
TP-31 N 197000 E 1270100	
TP-32 N 196900 E 1270100	
TP-33 N 196800 E 1270100	
TP-34 N 197000 E 1270000	
TP-35 N 196900 E 1270000	
TP-36 N 196800 E 1270000	
TP-37 N 196901 E 1270000	
TP-38 N 196700 E 1270100	
TP-39 N 196700 E 1270200	
TP-40 N 196600 E 1270200	
TP-41 N 196500 E 1270100	
TP-42 N 196600 E 1270100	
TP-43 N 196700 E 1270100	

TEST PIT LOG

SOIL DESCRIPTION & REMARKS	LEVEL	GROSS WATER	SAMPLES	DEPTH IN FEET	HORIZONTAL DISTANCE IN FEET
<p>Gray slag 6.5-2" diameter Dark Brown Silty SAND, fine, 15% fines, moist, some fly-ash</p> <p>Garbage - wood, brick, some plastic, concrete. Pottery, HoS odor. Lots of plastic, moist, difficult to get past timber.</p> <p>Dark black - burned? refuse, layer, timbers</p> <p>Moist ash? layer, w/ grey clay clay, along w/ waste that appears burned. Newspaper dated Jan. 1962 included with waste. At 10.5' more burnt-looking paper, timbers and soil w/ only treated timber odor. Dash calendar from 1961 Also noted light gray clayey like substance, gypsum board debris?, ashes, At 13.14', Aerospace metal testing logs, OT authorization w/ Boeing name. Tire mixed in w/ waste Possible end of waste at 13.5' Dark brown to black, sandy SILT w/ coals, very moist, organic odors</p> <p style="text-align: right;">TD = 14'</p>	<p>ND</p> <p>ND</p> <p>ND</p> <p>ND</p>	<p>TP-1-2</p> <p>TP-1-3 TP-1-4</p>	<p>4</p> <p>8</p> <p>12</p> <p>16</p>	<p>4</p> <p>8</p> <p>12</p> <p>16</p> <p>17</p> <p>18</p>	

PROJECT South Park Landfill
 DATE 4/1/97
 LOGGED BY B. Carpenter
 LOCATION NE Corner of Truck Storage along 5th
 WEATHER Sunny SOILS

TEST PIT LOG

TP-2
TP-02

PROJECT South Park Landfill
 DATE 1/17/97
 LOGGED BY B. Carpenter
 LOCATION S-Central area of Eckerberies, in clearing
 WEATHER SUNNY, 10's
 (Proposed TP1)

TEST PIT TP2

SOIL DESCRIPTION & REMARKS	DEPTH	SAMPLES	GROUND WATER	WATER	HORIZONTAL DISTANCE IN FEET
Grey-Brown silty SAND f- with large rip rap rock 23'	0	TP2-1			0
Garbage @ 2' newspaper, wood waste, plastic bags, fire, metal grill grating, household debris, glass bottles (liter), several tires, log wood waste, metal debris, fiber glass insulation on sheet metal, tires, metal piping, more household waste, cans, springs, glass, papers, water, appears to be feed at 7.5'	4				4
Still in waste @ bottom TD 13	8	7.5 (reached)			8
	12				12
	16				16

Grey-Brown silty SAND

Refuse

wood waste, domestic waste, tires, metal debris, sheet metal, fiberglass insulation, glass, paper

TEST PIT LOG

TP-3

TP-03

drainage bank

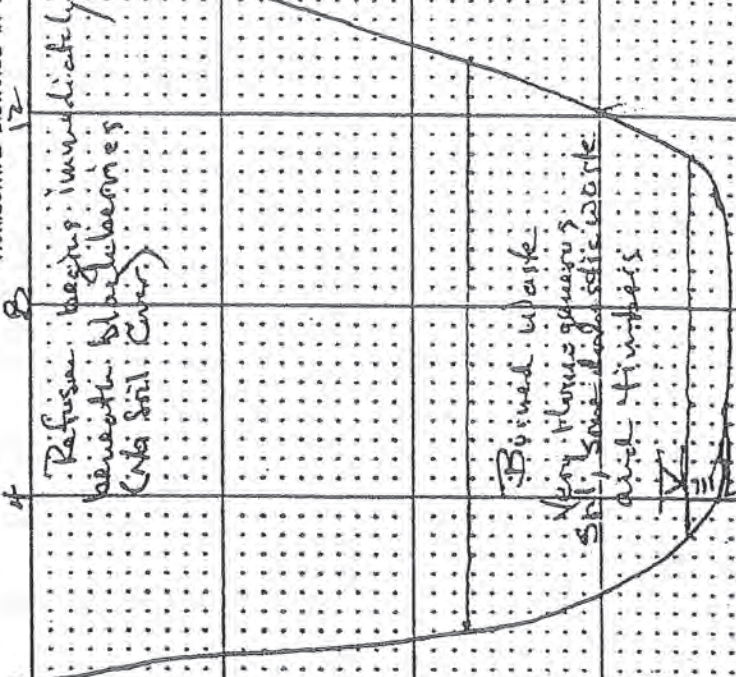
along drainage bank

PROJECT South Park Landfill
DATE 4/19/77
LOGGED BY B. Carpenter

LOCATION N - Central part of ~~blackberry~~ lot, just S. of ~~blackberry~~ lot, just S. of ~~blackberry~~ lot
WEATHER Sunny 50s

TEST PIT	SOIL DESCRIPTION & REMARKS	DEPTH	SAMPLES	GROUP	REMARKS	HORIZONTAL DISTANCE IN FEET
TP-3	No Soil cover - Refuse. Immediately beneath blackberry cover, Household waste - Tires, plastic doll, timbers - brown-grey soil wetting, black appeared to be more buried at 9' than overlying material. large binned timbers and tires at 11'. Crushed 55 gallon drum. Refuse has been very consistent throughout entire test pit. Odor not particularly strong as in test pits 1 & 2. Moist @ 13' wet at 14'. TD @ 14.5'	0				0
		4				4
		8				8
		12				12
		14	Water Sample	14.5		14
		14.5				14.5
		16				16

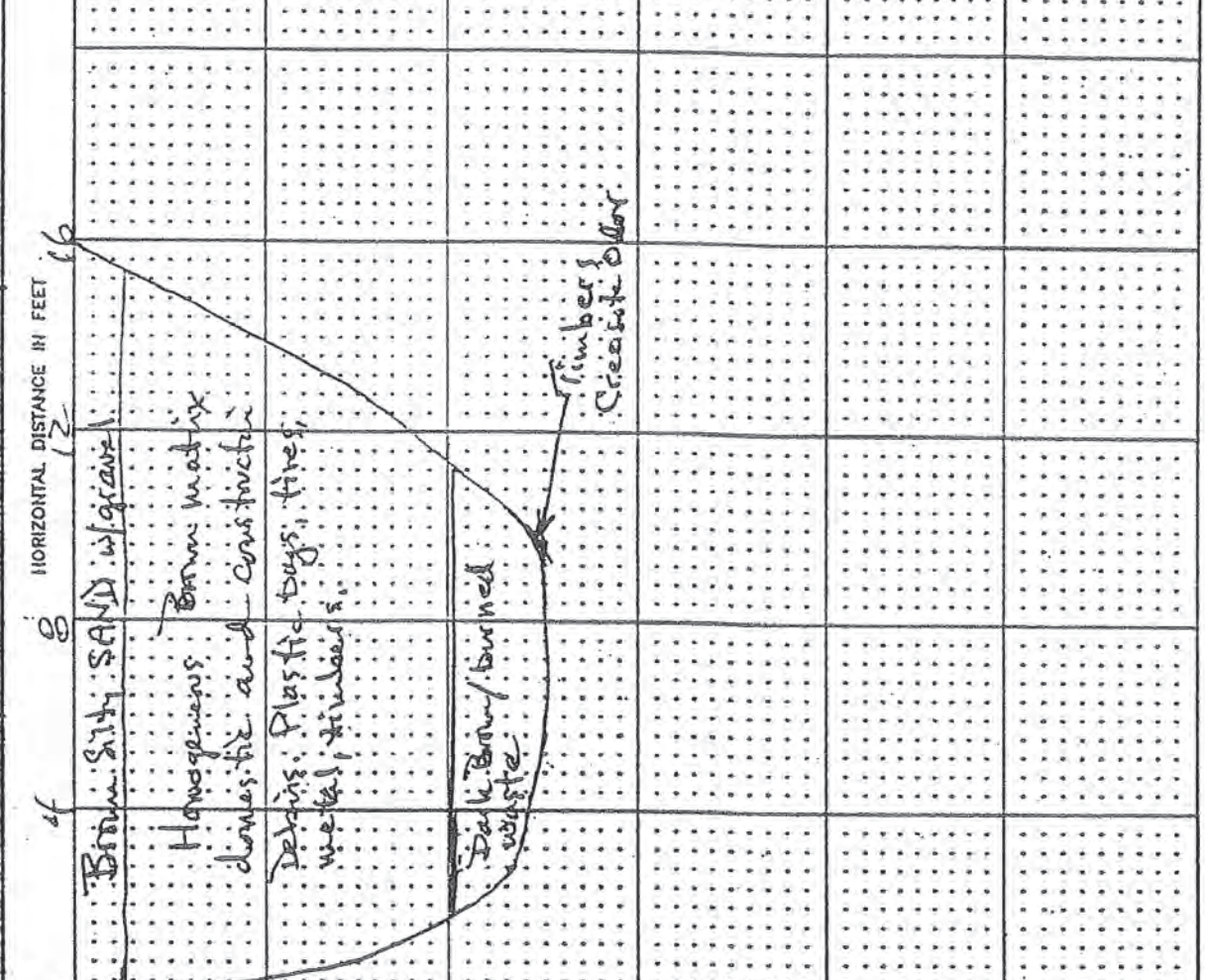
HORIZONTAL DISTANCE IN FEET



TEST PIT LOG

TEST PIT TP-4		PROJECT South Park Landfill		LOCATION E. of Fence Line (SE Corner Northstar C)	
DATE 4/7/97		LOGGED BY B. Carpenter		WEATHER Sunny, 10°	
DEPTH	SAMPLES	DEPTH	LEVEL	SOIL DESCRIPTION & REMARKS	HORIZONTAL DISTANCE IN FEET
0	TP4-1	0	ND	SPILL COOK Dark Brown Silty SAND fine to med. w/ gravel/cobbles	0
4		4	ND	Refuse very similar to TP-3. Homogeneous waste household, timbers, tires plastic bags @ 8'. Also Burned waste darker ash type matrix @ 8'. Moist @ 8' Water @ 10'. Timbers and strong creosote odor. Could not penetrate timbers @ 10'	4
8		8	ND		8
12		12	V		12
16		16			16

Soil Description & Remarks:
 Bottom: Silty SAND w/ gravel.
 Homogeneous Brown matrix domestic and construction debris: Plastic bags, tires, metal, timbers.
 Dark Brown/burned waste
 Timbers, Creosote odor.



TEST PIT LOG

PROJECT Siyuk Park Landfill LOCATION SE of TP-5
DATE 4/7/97 WEATHER part of North Star parking lot
LOGGED BY H. Corner 20°F, sunny

DEPTH (ft)	SOIL DESCRIPTION & REMARKS	DEPTH (ft)	SOIL DESCRIPTION & REMARKS	DEPTH (ft)	SOIL DESCRIPTION & REMARKS	HORIZONTAL DISTANCE IN FEET
0-1	Med. brown SAND w/ SILT	4	Silt and med. brown waste with brown soil matrix	8	Waste with dark brown soil matrix	16
1-5	15% fines, 3-5% f-in gravel					
1-5	Waste, homogeneous, similar to TP-4, TP-5. Wood timbers, ironing board, plastic, paper, tire, 1.5x4 wood board (w/ nail), construction debris, not affected during					
5-10	Dark brown soil matrix (silty sand) w/ misc waste as above. But burned material: tires, timbers, plastic, fiberboard, rolled wire.					
10-11	gray-blue sandy silt above (hydrocarbon-imp?)					
TD = 13.5'						
No gas encountered.						

no more remaining is on TP-7 from Friday

TP-7

TP-07

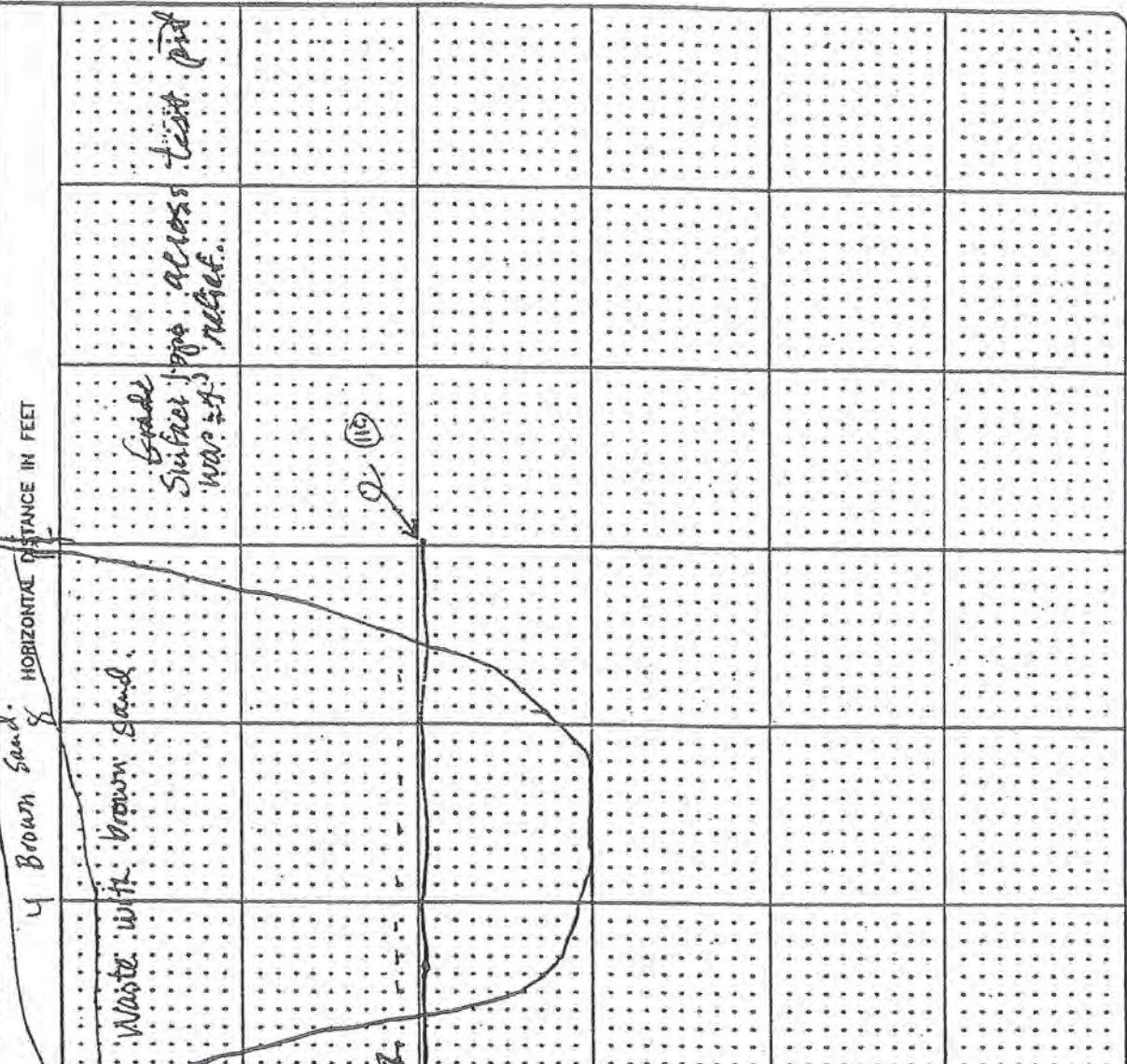
Indicates approx. topographic map

TEST PIT LOG

UES Uddaloy Environmental Services

TEST PIT	PROJECT DATE	LOGGED BY	LOCATION WEATHER	HORIZONTAL DISTANCE IN FEET	DEPTH	SAMPLES	TESTS	CGI/PID	SOIL DESCRIPTION & REMARKS
TP-7	4/7/97	H. CARLSON	Southpark landfill 20 S. of Cambridge, near Air Home tree, 50 E. SHERWAY.	0 4 8 12 16	0			CGI/PID	0-1: SAND (SP), brown, f. m. 3-5% fines, abundant roots. Moist. ND/ND
									1-7.5 and 12 Waste with brown sand mostly timbers, some plastic, concrete. trees look more like construction debris than waste in previous test pits.
									At low end of pit (nearest creek) gw was encountered at ~ 8.5 ft. bags. Cleaned pit more similar waste at 10' below the water level - waste looked similar to above.
									TD ~ 12' bags at high end of pit, 8' bags at low end.
									Water Sample: PH = 6.33 COND 144µS

PROJECT DATE: 4/7/97
 LOGGED BY: H. CARLSON
 LOCATION: Southpark landfill
 WEATHER: 20 S. of Cambridge, near Air Home tree, 50 E. SHERWAY.



Waste with brown sand.
 Grade surface pipe access near 8.5'.

TEST PIT LOG

TEST PIT TP-8

PROJECT: SAVATK-PARK - LANDFILL

DATE: 7/7/97

LOGGED BY: J. CATANA

LOCATION: IMMEDIATELY N. OF TRAILER LOT, N. OF

WEATHER: 100% clear

N. OF TRAILER LOT, N. OF

area shown

DEPTH FEET	SAMPLES	GROUND WATER	SOIL DESCRIPTION & REMARKS	HORIZONTAL DISTANCE IN FEET
0			0-1' brown, silty sand with silt and clay. <u>CaI</u> <u>PID</u>	4
4			1-5' Waste with brown silty sand matrix, homogeneous, appeared to be household garbage (plastic bags, plastic toys, shoe parts). <u>Less matrix than in TP-7, TP-6.</u>	8
8			5- DK brown silty sand matrix (burned?), appears to be more construction debris than above - wood, timbers, bricks, kyo plastic drain pipe. <u>Less matrix than in TP-7, 6 - less noted above.</u> <u>MSD</u>	12
12				16
16				

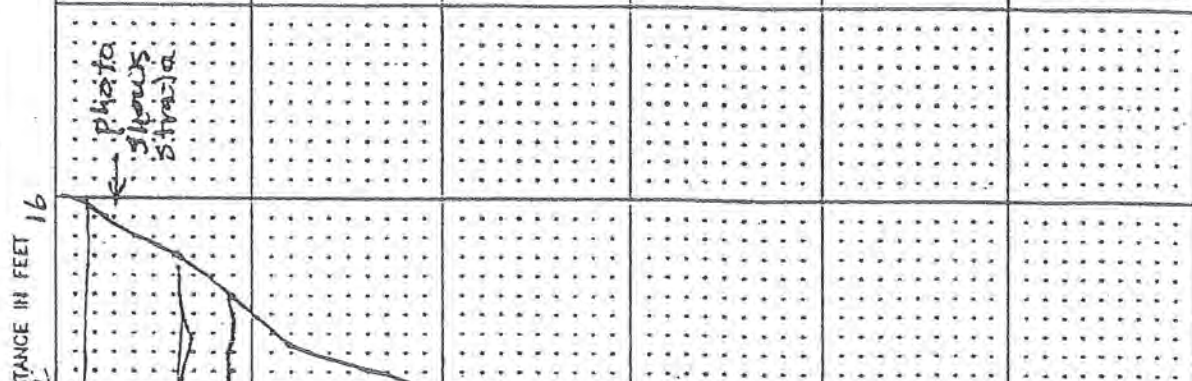
D = 13'

TEST PIT LOG

PROJECT: Solar Park Landfill LOCATION: NW Quad, N. fence line
DATE: 4/18/12 WEATHER: 50°F, overcast
LOGGED BY: A. Sarker

TEST PIT: TP-9 HORIZONTAL DISTANCE IN FEET: 12

SOIL DESCRIPTION & REMARKS (USE WITH SIV)	CGIS / PID	REMARKS	SAMPLES	DEPTH
0-0.5': Brown sandy SAND SOIL. w/ roots.	ND			0
0.5-2.5': Brown to gray sand w/ silt (and gravel, abundant concrete bricks, hard lumps, 15-20% gravel, w. chunky chunks, bricks (misc. construction debris), moist.	ND			4
2.5-3.5': Gray sandy, clayey silt with 3-5 coarse sand and fine gravel - cover layer. Base of unit grades into underlying silty moist.	ND/ND		TP-9-3	8
3.5-12.5': Waste w/ dk brown silty sand matrix; moist. Looks brown. Top 2' was mainly timbers, bricks. Below 5' was debris similar to TP-9 - mixed household + construction debris. Includes timbers, plastic, bricks, bed springs, metal bars, wire. Moist.	ND/ND			12
@ 12': Wet. Slight waste odor noted in test pit. Could advance further due to slumping and backhoe reach.				
TD = 12.5'				
Water flowed in and pooled in hole.				
2 photos of layering + waste				

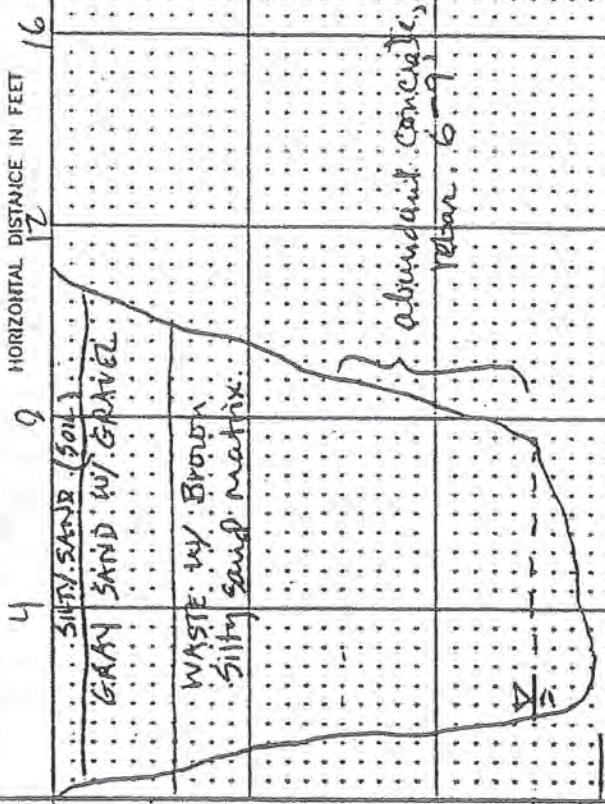


TEST PIT LOG

PROJECT: Southpark Landfill LOCATION: NW 1/4 Sec 10, T. 12N, R. 10W
 DATE: 4/8/97 WEATHER: 50°F, 100% Overcast
 LOGGED BY: H. Catala

TEST PIT: TP-10

SOIL DESCRIPTION & REMARKS	DEPTH (ft)	DEPTH (m)	WATER	TEMP	MOISTURE	PIV	REMARKS
0 - 0.75' Brown silty sand w/ roots (soil).	0	0				ND	
0.75' - 2.5' Gray sand with gravel, fines some coarse, 15-25% f-c gravel, concrete chunks (v. similar to TP-9)	4	1.2				ND	
2.5' - 14.5' Waste with brown silty sand w/ gravel matrix, 5-8% gravel, f-m, 10-20% fines. Misc. construction waste, mostly - timbers, bricks, some metal, plastic.	8	2.4				ND	
@ 6'-9': abundant concrete, rebar.	12	3.7				ND	
@ ~10' Wet. Slight waste odor noted when excavating near water. Pit is slumping. Bucket teeth prob. got to 11.5 or 12', but hole is leaving.	16	4.9				ND	
TD ~ 11.5'							



Water ponded in hole.

1-1 3/27/97 DATA/UES | photo - waste w/ pulley on top. (4' lift)

TES - PIT LOG

PROJECT: Southpark Landfill
 DATE: 9/29/97
 LOGGED BY: H. COVATZ
 LOCATION: GROVE OF TREES, BENDER - south of New York
 WEATHER: 50°-55° F, sunny

TEST PIT: TP-11
 CGL/PID: CGL/PID

SOIL DESCRIPTION & REMARKS	GROUND WATER	SAMPLES	DEPTH	HORIZONTAL DISTANCE IN FEET
0-2: Brown SAND (SP) f.m. 35-40% coarse, 3-5% fine - m gravel, trace fines (Fm). Significant root zone at base of fill. 2-4: Dk. Brown SAND w/ SILT, 5-10% fines, occasional rubble chunky garbage. More matrix than garbage. 4-5: More waste than matrix. Waste w/ red-brown silty sand matrix, mixed construction and misc waste (less wood than in TP-10). Trees, plastic, pipes, bricks, wire. @ 9 ft: Encounter large piece of concrete. More toward NE. Encounter large timber.	ND/ND ND/ND	TP11-2	0 4 8 12 16 NW	2 4 6

TD = 14.5'

No groundwater encountered.

Top fill sand was cleaner than in previous TPs.

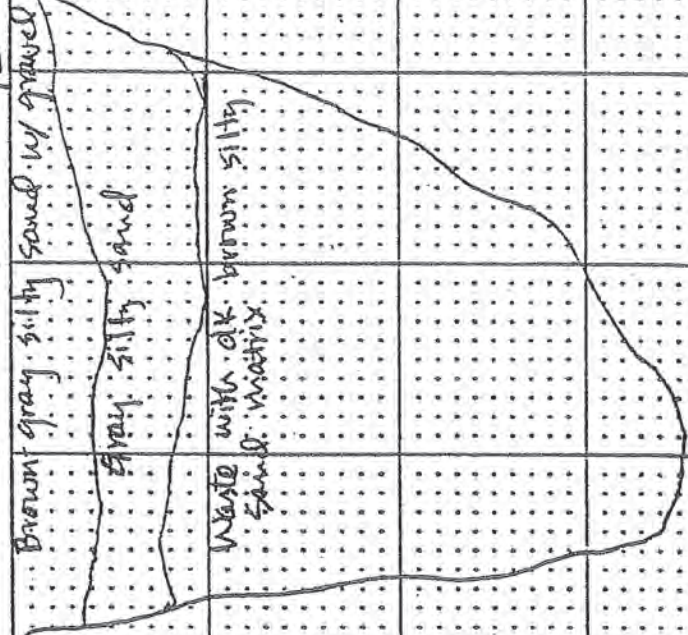
photo of garbage + w TP well.

TEST PIT LOG

PROJECT South Park Landfill LOCATION Grassy area S. of Transfer Station, 150' N. of
 DATE 11/8/17 WEATHER 22° - Sunny
 LOGGED BY H. C. ...

SOIL DESCRIPTION & REMARKS	DEPTH (FEET)	SAMPLES	GROUND WATER	CEG / PID	TEST PIT
0-1.5: Brown-gray silty sand with gravel 10-15% fines, 15% f-m gravel. Uneven contact w/ fill below.	0	TP-12-2		ND/ND	
1.5-3: Gray silty sand 10-15% fines, 5-8% gravel, f-m. Uneven contact w/ waste below.	4			ND/ND	
3- Waste with dk brown silty sand matrix. Appears banded similar to TP-11 waste - abundant timbers, some concrete & cobbles, pipe, plastic, some household waste mixed in - plastic doll, metal, tires, mortar. Slight waste odor. From 6-8', strange waste odor from 9' to 12'. @ 14' encountered rock(?) or concrete. Impeded progress, could not move it.	8			ND/ND	
	12				
	16				

HORIZONTAL DISTANCE IN FEET



TD = 14'

NO groundwater encountered

Easiest pit to dig so far - stays open well.

TEST PIT LOG

TEST PIT TP-14

PROJECT DATE 9/8/97 LOGGED BY H. COLEMAN

Location Landfill

LOCATION East corner of 3 pits on yard 5 of man

station

WEATHER 50.3 F

SOIL DESCRIPTION & REMARKS	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)
0-0.75: Brown silty sand w/ roots - cover/soil. ND/ND	0																	
0.75-2.5: Brown silty sand with gravel (fill) with some misc. waste - metal. ND/ND	4																	
2.5-14: Waste with dk brown silty sand matrix, appears broken wire, 1/2 brick and cobbles, concrete chunks. Slight waste odor. Rope fibers, pipe, metal strips, shoe sole. Fewer timbers than in previous. Concrete chunks holes - more cobbles, bricks. Encountered layer of bricks at 14 ft. that we couldn't penetrate.	8																	
TD=14'	12																	
No groundwater encountered.	16																	
Topsoil hole stays open, well - very narrow, tight soil. Took last 2 pictures on rock.																		

Appendix A
 Summary of Test Pits Completed in Parcel 1
 South Park Custodial Landfill
 King County, Washington

Revised Test Pit ID	OEI Test Pit ID	Depth (feet)	PID Reading (ppm)	Odors	Staining	Notes
TP-15	TP-1	1.8	0	None	None	
TP-16	TP-2	2.7	0	None	None	Landfill cap is 1-ft. thick on top of trash
TP-17	TP-3	3.6	0	None	None	
TP-18	TP-4	4	0	None	None	Area of test pit has concrete and asphalt blocks up to 1-ft. long and found down to 3-ft.
TP-19	TP-5	3.8	0	None	None	
TP-20	TP-6	2.7	0	None	None	Old vegetation at base of fill
TP-21	TP-7	3.2	0	None	None	
TP-22	TP-8	1.4	80.1	Diesel	Yes	Dark oil stain on ground surface extending to about 4 inches
TP-23	TP-9	1.9	0	None	None	Slag-like material on ground surface
TP-24	TP-10	1.6	0	None	None	Slag-like material to about 6 inches

- Notes:
- 1) Test pits completed by Olympus Environmental Inc. (OEI) at Parcel 1
 - 2) Test pits ID were revised to reflect sequential numbering
 - 3) Cover Soil was described as silty sand with gravel
 - 4) No final test pit logs were prepared by OEI

TP-15

TP-16

TP-17

TP-18

TP-19

TP-20

TP-21

TP-22

TP-23

TP-24

Coarse Grained Soils - More than 50% ⁽¹⁾ retained on Number 200 sieve	Gravels - More than 50% of coarse fraction retained on Number 4 sieve	Gravels (fill to no fines)	GW	Well-graded gravel and gravel with sand, little to no fines
			GP	Poorly-graded gravel and gravel with sand, little to no fines
			GM	Silty gravel and silty gravel with sand
	Gravels with fines	GC	Clayey gravel and clayey gravel with sand	
		Sands (fill to no fines)	SW	Well-graded sand and sand with gravel, little to no fines
			SP	Poorly-graded sand and sand with gravel, little to no fines
Sand - 50% or more of coarse fraction passes Number 4 sieve	Sands with fines	SM	Silty sand and silty sand with gravel	
		SC	Clayey sand and clayey sand with gravel	
		Sills and Clays Liquid limit less than 50	ML	Silt, sandy silt, gravelly silt, silt with sand or gravel
CL	Clay of low to medium plasticity, silty clay, sandy or gravelly clay, lean clay with sand or gravel			
OL	Organic clay or silt of low to medium plasticity			
Fine Grained Soils - 50% ⁽¹⁾ or more passes Number 200 sieve	Sills and Clays Liquid limit 50 or more	MH	Elastic silt, clayey silt, silt with micaceous or diatomaceous fine sand or silt	
		CH	Clay of medium to high plasticity, sandy or gravelly clay, fat clay with sand or gravel	
		OH	Organic clay or silt of medium to high plasticity	
		PT	Peat, muck and other highly organic soils	

Terms Describing Relative Density and Consistency

Coarse-Grained Soils	Density	SPT⁽²⁾ blows per foot
	Very Loose	0 to 4
	Loose	4 to 10
	Medium Dense	10 to 30
	Dense	30 to 50
Very Dense	>50	
Fine-Grained Soils	Consistency	SPT⁽²⁾ blows per foot
	Very Soft	0 to 2
	Soft	2 to 4
	Firm	4 to 8
	Stiff	8 to 15
	Very Stiff	15 to 30
Hard	>30	

Component Definitions

Descriptive Term	Size Range and Sieve Number
Boulders	Larger than 12"
Cobbles	3" to 12"
Gravel	3" to No. 4 (4.75 mm)
Coarse Gravel	3" to 3/4"
Fine Gravel	3/4" to No. 4 (4.75 mm)
Sand	No. 4 (4.75 mm) to No. 200 (0.075 mm)
Coarse Sand	No. 4 (4.75 mm) to No. 10 (2.00 mm)
Medium Sand	No. 10 (2.00 mm) to No. 40 (0.425 mm)
Fine Sand	No. 40 (0.425 mm) to No. 200 (0.075 mm)
Silt and Clay	Smaller than No. 200 (0.075 mm)

Test Symbols

- G = Grain Size
- M = Moisture Content
- A = Atterberg Limits
- C = Chemical
- DD = Dry Density
- K = Permeability

Estimated Percentage

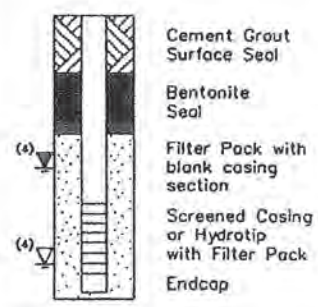
Component	Percentage by Weight
Trace	<5
Few	5 to 10
With	≥ 15
Little	15 to 25
Some	30 to 45
Mostly	50 to 100

Moisture Content

- Dry- Absence of moisture, dusty, dry to the touch
- Slightly Moist- Preceptible moisture
- Moist- Damp but no visible water
- Very Moist- Water visible but not free draining
- Wet- Visible free water, usually from below water table

Symbols

Sampler Type	Blows/6" or portion of 6"	Sampler Type
	10	2.0" OD Split Spoon Sampler (SPT)
	15	3.0" OD Split Spoon Sampler
	20	3.25" OD Split Spoon Ring Sampler
		Bulk sample
		3.0" OD Thin Wall Tube Sampler (including Shelby tube)
		Grab Sample
		Portion not recovered



- (1) Percentage by Dry Weight
- (2) (SPT) Standard Penetration Test (ASTM D-1586)
- (3) In General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)

- (4) Depth of Groundwater
- ATD = At time of drilling
- Static water level (date)

Classification of soils in this report is based on visual field and laboratory observations, which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D-2488 were used as an identification guide for the Unified Soil Classification System.

VB9741B.dwg 03/24/99 1:1




LOG OF EXPLORATION PIT NO. TP-25

Location: Parcel 3, Northeast Pit

Northing: 197000

Easting: 1270300

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
0.5	S-1	0		SILTY GRAVEL WITH SAND; brown; dense, slightly moist; clasts to 3"
1.0	G-1			SAND WITH GRAVEL; brownish-gray; dense, slightly moist
1.5	S-2	0		REFUSE; black; dense; with wood, brick, glass, bark
1.5				Bottom of test pit at depth 1.25 feet Ground water not encountered
2.0				
2.5				
3.0				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-1




LOG OF EXPLORATION PIT NO. TP-26

Location: South of TP-25

Northing: 196900

Easting: 1270300

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
	G-1			SILTY GRAVEL WITH SAND; brown, coarse; dense, slightly moist; clasts to 4", some rounded
0.5	S-1	0		GRAVEL WITH SAND; light gray; dense, dry; clasts to 1"
1.0				REFUSE; gray, with sand; wood splinters
1.5				Bottom of test pit at depth 1.1 feet Ground water not encountered
2.0				
2.5				
3.0				
3.5				
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-2




LOG OF EXPLORATION PIT NO. TP-27

Location: South of TP-26

Northing: 196800

Easting: 1270300

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.				
0.5	S-1	0		SILTY GRAVEL WITH SAND; brown; dense, moist; clasts
1.0				CONCRETE; gray; very dense; controlled density fill, burned at base (black)
1.5				REFUSE; gray, with silty fine to medium sand; dense, moist; 1/8" wire, brick
3.0				Bottom of test pit at depth 3 feet Ground water not encountered
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-3

LOG OF EXPLORATION PIT NO. TP-28

Location: West of TP-27

Northing: 196800

Easting: 1270200

Datum: NAD83

Depth, ft.	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>
				DESCRIPTION
				SILTY GRAVEL WITH SAND; brown; dense, slightly moist; clasts to 2"
0.5	S-1	0		GRAVEL WITH SILT AND SAND; gray; dense, slightly moist; clasts typically 1"
1.0				REFUSE; brown, with silty sand, some gravel; wood chips
1.5	S-2	0		
2.0				Bottom of test pit at depth 1.75 feet Ground water not encountered
2.5				
3.0				
3.5				
4.0				
				<p>S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.</p>

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-4




LOG OF EXPLORATION PIT NO. TP-29

Location: north of TP-28

Northing: 196900

Easting: 1270200

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
0.5	S-1	0		SILTY GRAVEL WITH SAND; brown, coarse; dense, slightly moist; to 1"
1.0	S-2 G-1	0		GRAVEL WITH SAND; gray; very dense, dry; large concrete chunks to 8"
1.5				REFUSE; brown, with fine to medium sand, some silt; dense, very moist; some sheet metal
2.0				
2.5				Bottom of test pit at depth 2.2 feet Ground water not encountered
3.0				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-5




LOG OF EXPLORATION PIT NO. TP-30

Location: north of TP-29

Northing: 197000

Easting: 1270200

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
0.5	S-1	0		GRAVEL WITH SILT AND SAND; light brown; dense, slightly moist; clasts to 4"
1.0				GRAVEL WITH SILT AND SAND; gray; dense, dry; burned horizon at upper and lower contact
1.5				REFUSE; black, with silty sand; burned, with wood, glass, metal, brick
2.0				Bottom of test pit at depth 1.5 feet Ground water not encountered
2.5				
3.0				
3.5				
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-6

LOG OF EXPLORATION PIT NO. TP-31

Location: west of TP-30

Northing: 197000

Easting: 1270100

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
				DESCRIPTION
	G-1			GRAVEL WITH SILT AND SAND; light brown; dense; clasts to 2"
0.5	G-2 S-1	0		SAND WITH SILT AND GRAVEL; reddish-brown; medium dense, dry; clasts to 2.5"
1.0				GRAVEL WITH SAND; greenish-gray; concrete, clasts to .5"
1.5				
2.0				REFUSE; dark brown; with concrete, wood, wire, glass
2.5				Bottom of test pit at depth 2.2 feet Ground water not encountered
3.0				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-7



LOG OF EXPLORATION PIT NO. TP-32

Location: south of TP-32

Northing: 196900

Easting: 1270100

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>				
0.5	S-1	0		GRAVEL WITH SAND; medium brown; dense; clasts to 2"
1.0				GRAVEL WITH SAND; gray; dry; clasts to 2"
1.5				REFUSE; dark brown, with gravelly sand, some silt; slightly moist; highly organic (wood) content, blue plastic
2.0				Bottom of test pit at depth 2 feet Ground water not encountered
2.5				
3.0				
3.5				
4.0				
<p>S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.</p>				

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-8





LOG OF EXPLORATION PIT NO. TP-33

Location: south of TP-32

Northing: 196800

Easting: 1270100

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
				DESCRIPTION
	S-1	0		SILTY GRAVEL WITH SAND; brown; dense, moist; clasts to 2", grass roots
0.5				SILTY GRAVEL WITH SAND; gray; dense, dry; weathered yellow to 6"
1.0				REFUSE; dark brown, with sandy gravel, with silt; dense; burned wood, rubber hose, insulation, pressboard
1.5				Bottom of test pit at depth 1.1 feet Ground water not encountered
2.0				
2.5				
3.0				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/26/98

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-9

LOG OF EXPLORATION PIT NO. TP-34

Location: Parcel #3, NW test pit

Northing: 197000

Easting: 1270000

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>				
0.5	S-1	0	[Dotted pattern]	SAND WITH SILT AND GRAVEL; brown; medium dense, moist; clasts to 1"
1.0				
1.5	S-2	0	[Dotted pattern]	
2.0			[Vertical line pattern]	SILTY SAND; dark gray; moist; some subrounded gravel clasts, minor wood, plastic, cloth
2.5	S-3	41	[Vertical line pattern]	
3.0				
3.5				
4.0			[Cross-hatch pattern]	REFUSE; dark gray, with silty sand; with steel cuttings
				<p>Bottom of test pit at depth 4 feet Ground water not encountered</p> <p>S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.</p>

Start Date: 5/27/98

Backfill Date: 5/27/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-10

LOG OF EXPLORATION PIT NO. TP-35

Location: South from TP-34

Northing: 196900

Easting: 1270000

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>
	G-1			SILTY GRAVEL WITH SAND; brown; medium dense, very moist; clasts to 2"
0.5	S-1	0		GRAVEL WITH SAND; gray; very dense, dry; concrete blocks to 5"
1.0				
1.5				
2.0	S-2	0		GRAVEL WITH SILT AND SAND; gray; dense, slightly moist; some clay
2.5				REFUSE; dark gray, with silty sand, medium; dense, moist; wood, brick, glass, copper
3.0				Bottom of test pit at depth 2.5 feet Ground water not encountered
3.5				
4.0				
				<p>S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.</p>

Start Date: 5/27/98

Backfill Date: 5/27/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert S. Bogar
 Approved by: JJS

Figure No.
A-11



LOG OF EXPLORATION PIT NO. TP-36

Location: South of TP-35

Northing: 196800.5

Easting: 1270002

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>				
0.5				GRAVEL WITH SAND; light gray; very dense, dry; clasts to 3/2", concrete chunks to 8"
1.0				
1.5	S-1	0		
2.0				REFUSE; dark gray, with gravelly sand; with wood, wire, paper, glass, aluminum foil
2.5				Bottom of test pit at depth 2.3 feet Ground water not encountered
3.0				
3.5				
4.0				
<p>S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.</p>				

Start Date: 5/27/98

Backfill Date: 5/27/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-12


LOG OF EXPLORATION PIT NO. TP-37

Location: south of TP-36

Northing: 196700

Easting: 1270000

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5				REFUSE; brown, with silty sand, medium, some gravel; moist; clasts to 2", rectangular blocks and mortar on surface, asphalt chunks on surface and at 5', wood at 5', minor rebar at 5'
1.0	S-1	0		
1.5				
2.0				
2.5				
3.0				
3.5				
4.0				
4.5	S-2	0		
5.0				
5.5			Bottom of test pit at depth 5 feet Ground water not encountered	
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/27/98

Backfill Date: 5/27/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert S. Bogar
 Approved by: JJS

Figure No.
A-13

LOG OF EXPLORATION PIT NO. TP-38

Location: south from TP-33, east of TP-37

Northing: 196700

Easting: 1270100

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>
0.5	S-1	0	[Symbol: Dotted pattern]	<p>SILTY SAND WITH GRAVEL; brown; medium dense, slightly moist; abundant roots</p>
1.0	G-1		[Symbol: Dotted pattern]	<p>SILTY SAND WITH GRAVEL; gray-brown; very dense; concrete chunks to 15", cemented with white precipitate, some wire and metal pipe</p>
2.0	S-2	0	[Symbol: Dotted pattern]	
3.0			[Symbol: Diagonal hatching]	<p>REFUSE; brown, with gravelly sand, with clay; with metal pipes, wood, asphalt, and metal sheets</p>
3.5				<p>Bottom of test pit at depth 3.25 feet Ground water not encountered</p>
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/27/98

Backfill Date: 5/27/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-14





LOG OF EXPLORATION PIT NO. TP-39

Location: east of TP-38, south of TP-28

Northing: 196700

Easting: 1270200

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
				DESCRIPTION
				SILTY SAND; brown; medium dense, moist; dry below 2", abundant roots
0.5	S-1	0		GRAVEL WITH SILT AND SAND; brown; dense, slightly moist; bricks
1.0				GRAVEL WITH SILT AND SAND; gray, trace silt; dense, Dry; bricks, minor plastic
1.5	S-2	4.4		
2.0				REFUSE; brown, with sandy gravel; with plastic, brick, wood, wire, asphalt, glass
2.5				Bottom of test pit at depth 2.25 feet Ground water not encountered
3.0				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/27/98

Backfill Date: 5/27/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-15

LOG OF EXPLORATION PIT NO. TP-40

Location: south of TP-39

Northing: 196600

Easting: 1270200

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
	G-1			DESCRIPTION
0.5	S-1	0		SILTY SAND WITH GRAVEL; brown; medium dense, moist
1.0				SILTY SAND; brown, medium; concrete chunks to 24" diameter, asphalt to 4" diameter
1.5				
2.0				REFUSE; green, with pebbly sand, some silt; moist; bricks, shingles, metal, pipe
2.5				Bottom of test pit at depth 2.5 feet Ground water not encountered
3.0				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/27/98

Backfill Date: 5/27/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-16




LOG OF EXPLORATION PIT NO. TP-41

Location: south of TP-40 (just north of burm)

Northing: 196500

Easting: 1270200

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5	S-1	0		GRAVEL WITH SILT AND SAND; brown; clasts to 2", abundant roots
1.0				SAND WITH GRAVEL; brown, trace silt; clasts to 3", rebar/metal
2.0	S-2	0		REFUSE; brown, with sand with gravel; with roots, wood, sheet metal, rebar, plastic pipe, plastic sheet
3.5				Bottom of test pit at depth 3.3 feet Ground water not encountered
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/27/98

Backfill Date: 5/27/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-17

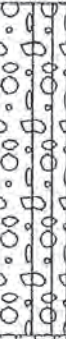

LOG OF EXPLORATION PIT NO. TP-42

Location: parcel 3, southwest pit (south of TP-38)

Northing: 196600

Easting: 1270100

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.				
0.5	S-1	7.2		GRAVEL WITH SILT AND SAND; dark brown; dense; clasts to 3", concrete/asphalt, brick
1.0				
1.5				SILTY SAND; tan, medium, trace gravel; dense, moist
2.0				
2.5				
3.0	S-2	0		REFUSE; dark brown, with sandy silt; dense, moist; glass, plastic bottles, brick
3.5				Bottom of test pit at depth 3 feet Ground water not encountered
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/28/98

Backfill Date: 5/28/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-18

LOG OF EXPLORATION PIT NO. TP-43

Location: southwest test pit (southwest from TP-42)

Northing: 196531.4

Easting: 1270049

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5	S-1	10.2	[Dotted pattern]	SILTY SAND; yellow, medium, some gravel; dense, moist; abundant roots, large concrete slabs some asphalt
1.0				
1.5				
2.0				
2.5	S-2	11.9	[Dotted pattern]	
3.0	G-1		[Cross-hatched pattern]	REFUSE; dark brown, with silty sand, medium; medium dense, moist; plastic pipe, wood debris
3.5				Bottom of test pit at depth 3.2 feet Ground water not encountered
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/28/98

Backfill Date: 5/28/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-19



LOG OF EXPLORATION PIT NO. TP-44

Location: northwestern most pit in parcel #3

Northing: 197102.3

Easting: 1269981

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>				
0.5	S-1	12		SILTY GRAVEL; brown; medium dense, moist; surface debris includes plastic bottles, wire, wood (tires and rims nearby)
1.0				GRAVEL WITH SAND; light gray; dense, slightly moist; clasts to 2", asphalt chunks to 20" at base of unit, concrete from 1 ft bgs (to 3/2")
1.5	S-2	11.8		REFUSE; brown, with sandy gravel, with silt; dense, slightly moist; with clasts to 2", asphalt pieces from 0.5" to 36" in diameter, plastic, wood, brick
2.0				
2.5				
3.0				
3.5				
4.0				
4.5				
5.0				Bottom of test pit at depth 4.7 feet Ground water not encountered
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/28/98

Backfill Date: 5/28/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-20




LOG OF EXPLORATION PIT NO. TP-45

Location: northeast of TP-12, south of fence line

Northing: 196650.1

Easting: 1270463

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5	S-1	17.8		GRAVEL WITH SAND AND SILT; dark brown; medium dense, moist
				GRAVEL WITH SAND AND SILT; brown; dense, slightly moist
1.0				REFUSE; gray-brown, with sandy gravel, some silt; brick, concrete, asphalt, plastic and metal pipe
1.5				SILTY SAND; brown, trace gravel; mottled gray and reddish brown
2.5				
3.0	S-2	11.6		
3.5				
4.0				Bottom of test pit at depth 3.8 feet Ground water not encountered
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/28/98

Backfill Date: 5/28/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-21







LOG OF EXPLORATION PIT NO. TP-46

Location: East of TP-45, south of fence

Northing: 196626.3

Easting: 1270626

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.				
0.5				SILTY GRAVEL; brown; dense, moist; clasts to 2", bricks, concrete pieces to 6"
1.0				SILTY SAND; light brown; dense, moist; brick, concrete, wood, minor sheet metal, pipe
2.0	S-1	0		REFUSE; brown, with gravelly sand, with silt; with burnt wood, brick, concrete, misc. plastic, electrical box and insulators
3.0				
4.0				
5.0				
5.5				Bottom of test pit at depth 5 feet Ground water not encountered
S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.				

Start Date: 5/28/98

Backfill Date: 5/28/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-22

LOG OF EXPLORATION PIT NO. TP-47

Location: east of TP-46 (near northwest corner of P #1)

Northing: 196600

Easting: 1270800

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.				
0.5				SILT, GRADES TO SILTY SAND; gray, medium; dense, moist; abundant roots
1.0	S-1	11		
1.5				GRAVEL WITH SILT AND SAND; brown; concrete chunks to 8", rebar, glass
2.0				
2.5	S-2	39.5		
3.0				REFUSE; dark brown, with sand; medium dense; metal, bricks, wood, glass, plastic
3.5				
4.0				Bottom of test pit at depth 4.3 feet Ground water not encountered
4.5				
S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.				

Start Date: 5/28/98

Backfill Date: 5/28/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert S. Bogar
 Approved by: JJS

Figure No.
A-23



LOG OF EXPLORATION PIT NO. TP-48

Location: Parcel #2, southeast sample

Northing: 196455.9

Easting: 1271002

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
0.5				GRAVEL WITH SAND; gray; medium dense, moist
1.0	S-1	4.4		REFUSE; dark brown, with sandy gravel, with silt; dense, moist; wood, metal debris, wire, metal pipe, concrete
1.5				
2.0				Bottom of test pit at depth 2 feet Ground water not encountered
2.5				
3.0				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/28/98

Backfill Date: 5/28/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-24


LOG OF EXPLORATION PIT NO. TP-49

Location: Parcel 2, southeast test pit

Northing: 196421

Easting: 1270819

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
				REFUSE; dark brown, with sandy gravel; wood debris, rubber, plastic, wire, shingles
				Bottom of test pit at depth 3 feet Ground water not encountered
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/28/98

Backfill Date: 5/28/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert S. Bogar
 Approved by: JJS

Figure No.
A-25






LOG OF EXPLORATION PIT NO. TP-50

Location: Parcel 2, southwest corner

Northing: 196455.9

Easting: 1270902

Datum: NAD83

Depth, ft.	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
0.5	S-1	5.5		GRAVEL WITH SAND; gray; medium dense, moist; clasts to 2", vesicular slag
				SILTY SAND WITH GRAVEL; dark gray; medium dense, moist; minor plastic and wood
				SILTY GRAVEL; red; clasts to 3", refuse: brick, plastic, wire, glass
1.5	S-2	12.2		REFUSE; dark gray, with silty, sand; wood, metal
3.0				Bottom of test pit at depth 3 feet Ground water not encountered
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-26










LOG OF EXPLORATION PIT NO. TP-51

Location: north of TP-50, parcel #2

Northing: 196555.9

Easting: 1270902

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.				
				GRAVEL WITH SILT AND SAND; brown; medium dense, moist; angular vesicular slag clasts to 2.5"
0.5				REFUSE; red, sandy, some silt; dense, slightly moist; wire, glass, plastic, cloth, wood, pottery, pipe
1.0	S-1	0		
1.5				
2.0	S-2	0		
2.5				
3.0				SILTY SAND; dark gray, some gravel; moist
3.5				Bottom of test pit at depth 3 feet Ground water not encountered
4.0				
S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.				

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-27

LOG OF EXPLORATION PIT NO. TP-52

Location: North of TP- 51 - Parcel #2

Northing: 196655.9

Easting: 1270902

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.				
0.5				SILTY SAND WITH GRAVEL; brown; moist; some debris
1.0	S-1	37.6		
1.5				REFUSE; dark gray, with silty sand with gravel; moist; plastic, wood, bricks, styrofoam
2.0				
2.5				Bottom of test pit at depth 2 feet Ground water not encountered
3.0				
3.5				
4.0				
S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.				

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert F. Cousins
Approved by: JJS

Figure No.
A-28

LOG OF EXPLORATION PIT NO. TP-53

Location: South LF property

Northing: 196655.9

Easting: 1271002

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.				
0.5	S-1	14.4		SILTY SAND WITH GRAVEL; brown, moist; minor amounts of refuse, slag
1.0				REFUSE; red; wood debris, plastic, foam, glass
1.5				
2.0				
2.5				
3.0				Bottom of test pit at depth 3 feet Ground water not encountered
3.5				
4.0				
S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.				

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert F. Cousins
 Approved by: JJS

Figure No.
A-29



LOG OF EXPLORATION PIT NO. TP-54

Location: South Landfill Property

Northing: 196555.9

Easting: 1271002

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5	S-1	10.1		SILTY SAND WITH GRAVEL; brown; dense, moist; fill parking area base coarse
1.0				REFUSE; dark gray, with silty sand, with gravel; abundant refuse: wood, plastic, metal fragments, glass
3.0				Bottom of test pit at depth 3 feet Ground water not encountered
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert F. Cousins
Approved by: JJS

Figure No.
A-30

LOG OF EXPLORATION PIT NO. TP-55

Location: southeast landfill parking area

Northing: 196224

Easting: 1270992

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>				
0.5	G-1			GRAVEL WITH SILT AND SAND; brown; dense, moist; with abundant 6" slag
1.0	S-1	2.7		SILTY SAND; gray; dense, moist
1.5				SILTY SAND; brown, trace gravel; medium dense, moist; lenses of gray fine to medium sand and gray clayey silt
2.0	S-2	4.1		REFUSE; dark brown; wood debris, scrap metal, slag
3.0				
3.5				
4.0				
4.5				
5.0				
5.5				
6.0				
6.5				
7.0				
7.5				
8.0				Bottom of test pit at depth 7.5 feet Ground water not encountered
8.5				
9.0				
9.5				
				<p>S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.</p>

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert F. Cousins
 Approved by: JJS

Figure No.
A-31

LOG OF EXPLORATION PIT NO. TP-56

Location: western OES confirmation pit

Northing: 196180

Easting: 1270824

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5			[Dotted pattern]	SAND WITH SILT AND GRAVEL; brownish-gray, medium dense, moist
1.0				
1.5				
2.0	G-1		[Diagonal lines]	SILTY CLAY; blueish-green, little refuse; moist; minor glass, plastic, metal pipe, brick, cloth
2.5			[Cross-hatch pattern]	REFUSE; dark gray, with silty sand; glass, plastic, metal pipe, brick, cloth
3.0	S-1	0		
3.5				Bottom of test pit at depth 3.2 feet Ground water not encountered
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 6/1/98

Backfill Date: 6/1/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-32

LOG OF EXPLORATION PIT NO. TP-57

Location: former TP-7. 50 ft west pf TP-55

Northing: 196069.1

Easting: 1270905

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5			[Dotted pattern]	SILTY SAND WITH GRAVEL; brownish-gray; dense, moist; clasts to 3", minor wire, wood, asphalt, concrete
1.0	G-1			
1.5				
2.0				
2.5				
3.0			[Vertical lines]	CLAYEY SILT; bluish-green, some gravel; dense, moist; friable, minor plastic at upper contact
3.5	S-1	545	[Cross-hatch]	
4.0			[Blank]	REFUSE; brown, some gravel; plastic, brick, wood, porcelin Bottom of test pit at depth 3.8 feet Ground water not encountered

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
 G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 6/1/98

Backfill Date: 6/1/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert S. Bogar
 Approved by: JJS

Figure No.
A-33







LOG OF EXPLORATION PIT NO. TP-58

Location: east of TP-57 (near former pit #8)

Northing: 196083

Easting: 1270993

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5				SAND WITH SILT AND GRAVEL; brown; dense, moist; sand lenses 1" thick, minor glass, wire, brick, metal, plastic, abundant roots
1.0				CLAYEY GRAVEL; gray; some hydrocarbon odor
1.5	S-1	16		REFUSE; reddish-brown, some sand; dense, moist; refuse as described above
2.0				
2.5				
3.0				
3.5				Bottom of test pit at depth 3 feet Ground water not encountered
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 6/1/98

Backfill Date: 6/1/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-34

LOG OF EXPLORATION PIT NO. TP-59

Location: southwest pit in non-leased area

Northing: 196144.9

Easting: 1270256

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5				SILTY GRAVEL; brown; medium dense, Dry; clasts to 2", abundant roots
1.0	S-1	5.1		
1.5				
2.0				CLAYEY SILT; gray; dry; friable, minor plastic at upper contact
2.5				
3.0	G-1 S-2	0		
3.5				REFUSE; brown, with silty sand; metal, rubber, bottles, plastic, wood
4.0				
4.5				Bottom of test pit at depth 4.2 feet Ground water not encountered
5.0				
5.5				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 6/1/98

Backfill Date: 6/1/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert S. Bogar
Approved by: JJS

Figure No.
A-35

LOG OF EXPLORATION PIT NO. TP-60

Location: southeast pit in southern non-leased area

Northing: 196100

Easting: 1270500

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
	G-1			SILTY SAND WITH GRAVEL; brown; medium dense, moist; clasts to 2", roots, some plastic
0.5	S-1	1.4		
1.0				SILTY GRAVEL; gray; dense, moist; clasts to 3"
1.5				
2.0				
2.5				REFUSE; wood (blackened), rubber, plastic, wire
3.0				Bottom of test pit at depth 3 feet Ground water not encountered
3.5				
4.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 6/1/98

Backfill Date: 6/1/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-36





LOG OF EXPLORATION PIT NO. TP-61

Location:

Northing: 196300

Easting: 1270500

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>				
0.5				
1.0	S-1	2.2		SILTY SAND WITH GRAVEL; brown; medium dense, dry; minor plastic, metal
1.5				REFUSE; brown, with silty sand with gravel; dry; with bricks, cloth, brittle tar, wire
2.0				SILT WITH GRAVEL; gray-green; dry; south wall only
2.5	S-2	3		REFUSE; brown, with silty sand with gravel; with bricks, cloth, brittle tar, wire
3.0				Bottom of test pit at depth 3 feet Ground water not encountered
3.5				
4.0				
<p>S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.</p>				

Start Date: 6/1/98

Backfill Date: 6/1/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-37

LOG OF EXPLORATION PIT NO. TP-62

Location: west of TP-61

Northing: 196308.9

Easting: 1270339

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
<p>This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.</p>				
0.5				SILTY SAND WITH GRAVEL; brown; medium dense, moist; grades to gray silty gravel with sand; moist, dense
1.0	S-1	3.4		
1.5				REFUSE; wood, rubber, plastic, shingles
2.0				
2.5	S-2	0		CLAYEY SILT; gray; medium dense, slightly moist
3.0				REFUSE; wood, plastic, tires, metal
3.5				
4.0				Bottom of test pit at depth 3.8 feet Ground water not encountered
				<p>S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.</p>

Start Date: 6/1/98

Backfill Date: 6/1/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert S. Bogar
 Approved by: JJS

Figure No.
A-38

LOG OF EXPLORATION PIT NO. TP-63

Location: northwestern pit in southern non-leased area

Northing: 196400

Easting: 1270200

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.				
0.5	G-1	1.6		SILTY SAND WITH GRAVEL; brown; medium dense, slightly moist; abundant roots
1.0	S-1			REFUSE; gray, with clayey silt; dry; jugs, tires, glass, plastic, wood, paper
1.5		6.4		REFUSE; black, with silty sand; moist; some brick, bottles
2.0				Bottom of test pit at depth 3.2 feet Ground water not encountered
2.5	S-2			S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.
3.0				
3.5				
4.0				

Start Date: 6/1/98

Backfill Date: 6/1/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

A-39

LOG OF EXPLORATION PIT NO. TP-64

Location: Occidental @ across from icegate, 37' east of centerline

Northing: 197072

Easting: 1269850

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
0.5	S-1	2.3		SILTY SAND; dark brown; organic rich topsoil
1.0				SILTY SAND; tan, trace gravel; loose; with abundant bricks
1.5				
2.0				
2.5				
3.0				SANDY SILT; tan; some organics (native topsoil surface)
3.5				
4.0				SAND; gray; medium dense, moist; Duwamish sand
4.5				
5.0				Bottom of test pit at depth 5 feet Ground water not encountered
5.5				
6.0				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.
Logged by: Robert F. Cousins
Approved by: JJS

Figure No.
A-40

LOG OF EXPLORATION PIT NO. TP-65

Location: curve @ Occidental/Sullivan connection

Northing: 196174.8

Easting: 1270102

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
				This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the named project and should be read together with that report for complete interpretation. This summary applies only to the location of this trench at the time of excavation. Subsurface conditions may change at this location with the passage of time. The data presented are a simplification of actual conditions encountered.
0.5			[Symbol: Vertical lines]	SILTY SAND WITH GRAVEL; brown; medium dense, moist; with bricks
1.0	S-1	5.1	[Symbol: Dotted pattern]	SAND; tan, fine; medium dense, moist
1.5				
2.0			[Symbol: Vertical lines]	SILTY SAND; brown; medium dense, wet; with organics (old topsoil)
2.5				
3.0				
3.5			[Symbol: Vertical lines]	SILT; tan, some sand; moist; native groundwater
4.0				Bottom of test pit at depth 4 feet Ground water encountered
4.5				
5.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert F. Cousins

Approved by: JJS

Figure No.

A-41



LOG OF EXPLORATION PIT NO. TP-66

Location: west of large warehouse

Northing: 195980.4

Easting: 1270324

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5	S-1	2.4		GRAVEL WITH SILT AND SAND; brown; clasts to 2", concrete chunks to 15", occasional pockets at 6"-8", some wood debris, pieces of clay tile, brick
1.0				
1.5				
2.0				
2.5				
3.0				
3.5				
4.0				
4.5				
5.0				
5.5				SAND WITH SILT; tan, fine; loose, moist
6.0				
6.5				
7.0				
Bottom of test pit at depth 6.8 feet Ground water not encountered S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.				

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.
 Logged by: Robert S. Bogar
 Approved by: JJS

Figure No.
A-42

LOG OF EXPLORATION PIT NO. TP-67

Location: 24' south of centerline Sullivan

Northing: 195952.6

Easting: 1270891

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	DESCRIPTION
0.5	S-1	3.2		SAND; tan, fine; loose, moist
1.0				
1.5				
2.0				
2.5				SILTY SAND; gray, loose, wet; organic rich
3.0				SAND WITH SILT; gray, fine; loose; Duwamish sand (native)
3.5				
4.0				
4.5				
5.0				
5.5				Bottom of test pit at depth 5 feet Ground water not encountered
6.0				
6.5				

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical
G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Start Date: 5/29/98

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division**



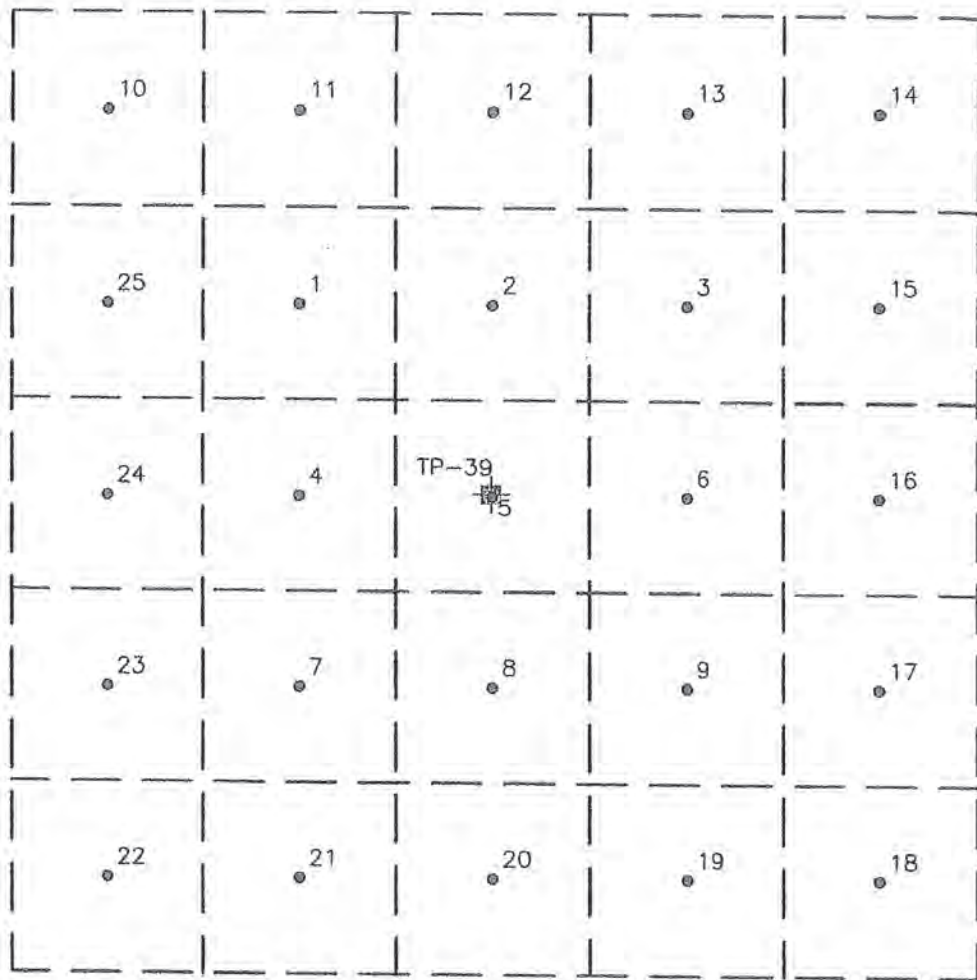
Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert F. Cousins

Approved by: JJS

Figure No.

A-43



LEGEND

18 ● SOIL SAMPLING LOCATION

TP--39 ⊕ TEST PIT (KING COUNTY 1998)

□ FARALLON SAMPLING GRID FOR POLYCHLORINATED BIPHENYLS

FARALLON CONSULTING
 975 5th Avenue Northwest
 Issaquah, WA 98027

FIGURE 3

GRID CELLS WITH
 SOIL SAMPLING LOCATIONS
 SPPD PROPERTY
 SEATTLE, WASHINGTON

FARALLON PN: 408-002

Drawn By: DEW	Checked By: TC	Date: 6/06/07	Disk Reference: 408002
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AKA

Client: Mr. Rob Howie, South Park	Date/Time Started: 4/5/07	Sampler Type: NA
Project: South Park Property	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Location: Seattle, Washington.	Equipment: Backhoe	Total Excavation Depth (ft bgs): 1.9
Farallon PN: 408-002	Excavating Company: Glacier Environmental	
Logged By: Holly Corner	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0		0-1.3' Silty SAND, fine to medium, minor gravel, fine to coarse, subround, with organics, trace asphalt debris, dark gray, moist.	SM		C1-0.5 C1-0.9	X
		1.3-1.7' Sandy SILT, trace gravel, fine to medium, subround to subangular, gray to brown gray, moist.	ML			
		1.7-1.9' DEBRIS with silty sand, orange staining, moist.	DB			
5						



AKA

Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07 **Sampler Type:** NA
Date/Time Completed: 4/5/07 **Depth of Water (ft bgs):** NA
Equipment: Backhoe **Total Excavation Depth (ft bgs):** 1.9
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0		0-1' SAND, fine to medium, minor gravel, fine to coarse, subround, brown, moist.	SP			
		1-1.2' Becomes light gray, no gravel.			C2-0.5	X
		1.2-1.6' Becomes brown.			C2-1.3	
		1.6-1.9' DEBRIS with silty sand, orange-brown staining.	DB			
5						



AKA

Client: Mr. Rob Howie, South Park Project: South Park Property Location: Seattle, Washington	Date/Time Started: 4/5/07	Sampler Type: NA
	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Farallon PN: 408-002 Logged By: Holly Corner	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.5
	Excavating Company: Glacier Environmental	
	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs-)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0		0-0.5' Gravelly SAND, fine to medium, minor debris, trace silt, trace wood debris, brown, moist.	SP			
	X	0.5-1.4' Gravelly SAND with silt, fine to medium, minor gravel, fine to medium, subrounded gravel, minor debris, brown, moist.	SP-SM	-	C3-0.5	X
		1.4-2.1' SAND, fine to medium, trace gravel, fine, trace to minor silt, brownish gray, moist.	SP			
	X	2.1-2.5' DEBRIS	DB	-	C3-2.0	
5						



AKA

Client: Mr. Rob Howie, South Park Project: South Park Property Location: Seattle, Washington	Date/Time Started: 4/5/07 Date/Time Completed: 4/5/07 Equipment: Backhoe Excavating Company: Glacier Environmental Excavating Foreman: unknown Excavating Method: Backhoe	Sampler Type: NA Depth of Water (ft bgs): NA Total Excavation Depth (ft bgs): 2.1
Farallon PN: 408-002		
Logged By: Holly Corner		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
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0	X	0-0.9' Silty SAND, fine to medium, with gravel, fine to coarse, subround to subangular, trace roots, trace asphalt debris, brown to gray, moist.	SM	-	C4-0.5	X
	X	0.9-1.7' Sandy SILT, minor sand, fine to medium, trace gravel, fine, mottled, light brownish gray, moist, slight manure odor.	ML	-	C4-1.4	
		1.7-2.1' DEBRIS, minor sand, fine to medium, orangish brown, moist.	DB			
5						



FARALLON CONSULTING
 975 5th Avenue Northwest
 Issaquah, WA 98027

Log of Test Pit: C-5

AKA

C-05

Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07
Date/Time Completed: 4/5/07
Equipment: Backhoe
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Sampler Type: NA
Depth of Water (ft bgs): NA
Total Excavation Depth (ft bgs): 2.2

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-1.3' SAND, fine to medium, minor roots, trace gravel, fine, angular, brown, moist.	SP	-	C5-0.5	X
	X	1.3-1.7' SAND, with silt and gravel, sand is fine to medium, gravel is fine, subangular, gray, moist.	SP-SM	-	C5-1.5	
		1.7-2.2' DEBRIS	DB			
5						



AKA

Client: Mr. Rob Howie, South Park	Date/Time Started: 4/5/07	Sampler Type: NA
Project: South Park Property	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Location: Seattle, Washington	Equipment: Backhoe	Total Excavation Depth (ft bgs): 1.9
Farallon PN: 408-002	Excavating Company: Glacier Environmental	
Logged By: Holly Comer	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
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0		0-0.8' SAND, fine to medium, with gravel, fine to medium, subangular, trace roots, brown, moist.	SP			
	X	0.8-1.0' becomes very light gray, no gravel			C6-0.5	X
	X	1.0-1.4' becomes brown and finer			C6-1.2	
		1.4-1.9' DEBRIS	DB			
5						



AKA

Client: Mr. Rob Howie, South Park	Date/Time Started: 4/5/07	Sampler Type: NA
Project: South Park Property	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Location: Seattle, Washington	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.2
Farallon PN: 408-002	Excavating Company: Glacier Environmental	
Logged By: Holly Corner	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0		0-0.3' SAND, fine to medium, with silt and gravel, fine, subangular, minor roots, minor asphalt debris, brown to grayish brown, moist.	SP-SM			
	X	0.3-0.6' SAND, fine to medium, very light gray, moist.	SP		C7-0.5	X
		0.6-1.9' SILT with sand, fine, gray, orange staining, moist.	ML			
	X	1.9-2.2' DEBRIS	DB		C7-1.7	
5						



Client: Mr. Rob Howie, South Park	Date/Time Started: 4/5/07	Sampler Type: NA
Project: South Park Property	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Location: Seattle, Washington	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.5
Farallon PN: 408-002	Excavating Company: Glacier Environmental	
Logged By: Holly Corner	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PIID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	------------	-----------	-----------------

0		0-0.9' SAND, fine to medium, minor roots, trace gravel, fine, brown, moist.	SP			
	X				C8-0.5	X
	X	0.9-1.4' SILT with sand, fine to medium, trace to minor gravel, fine to medium, subround to subangular, mottled, grayish brown, moist.	SP-SM			
	X				C8-1.0	
		1.4-2.5' DEBRIS, minor sand, medium, orangish brown.	DB			
5						



Client: Mr. Rob Howie, South Park Project: South Park Property Location: Seattle, Washington	Date/Time Started: 4/5/07	Sampler Type: NA
	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Farallon PN: 408-002 Logged By: Holly Corner	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.2
	Excavating Company: Glacier Environmental	
	Excavating Foreman: unknown	
		Excavating Method: Backhoe

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
0		0-0.7' SAND, fine to medium, minor roots, trace gravel, fine, brown, moist. West side of test pit has horizon of GRAVEL with sand, fine to medium, angular gravel, minor medium to coarse sand, gray.	SP	-	C9-0.5	X
		0.7-0.9' Gravel becomes medium grained, subrounded, minor concrete debris, very light gray				
		0.9-1.9' No gravel, fine to medium grained, brown, moist.			C9-1.7	
		1.9-2.2' DEBRIS	DB			
5						



AKA C-10

Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington
Farallon PN: 408-002
Logged By: Holly Corner

Date/Time Started: 4/5/07
Date/Time Completed: 4/5/07
Equipment: Backhoe
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe
Sampler Type: NA
Depth of Water (ft bgs): NA
Total Excavation Depth (ft bgs): 2.2

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-1.4' Gravelly SAND with silt, fine to medium, gravel is fine to coarse, subround, minor debris, brown, moist.	SP-SM	-	C10-0.5	
	X	1.4-1.8' Silty SAND, trace gravel, fine, subround, gray, moist.	SM	-	C10-1.5	
		1.8-2.2' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07 **Sampler Type:** NA
Date/Time Completed: 4/5/07 **Depth of Water (ft bgs):** NA
Equipment: Backhoe **Total Excavation Depth (ft bgs):** 2.5
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
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0	X	0-1.0' Gravelly SAND with silt, fine to medium sand, fine to coarse, subrounded gravel, trace brick fragments, brownish to gray, moist.	SP-SM	-	C11-0.5	
		1.0-2.0' Silty SAND with gravel, fine sand, fine to coarse, subangular to subround gravel, minor roots, gray, moist.	SM	-	,	
	X	2.0-2.3' Becomes brown.		-	C11-1.9	
		2.3-2.5' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07
Date/Time Completed: 4/5/07
Equipment: Backhoe
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Sampler Type: NA
Depth of Water (ft bgs): NA
Total Excavation Depth (ft bgs): 2.2

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-1.7' SAND with silt and gravel, fine to medium sand, fine to medium, subangular to angular gravel, brown, moist. Uppermost 3 inches contains 30 to 35% angular gravel. Uppermost 12 inches minor brick debris.	SP-SM	-	C12-0.5	
	X	1.7-2.2' DEBRIS	DB	-	C12-1.5	
5						



Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07 **Sampler Type:** NA
Date/Time Completed: 4/5/07 **Depth of Water (ft bgs):** NA
Equipment: Backhoe **Total Excavation Depth (ft bgs):** 2.1
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-1.3' SAND with silt and gravel, fine to medium sand, fine to medium, subangular gravel, brown, moist. Abundant brick debris between 0-1.0'.	SP-SM	-	C13-0.5	
	X	1.3-2.1' DEBRIS in orange-brown silty sand.	DB	-	C13-1.1	
5						



Client: Mr. Rob Howie, South Park Project: South Park Property Location: Seattle, Washington	Date/Time Started: 4/5/07	Sampler Type: NA
	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Farallon PN: 408-002	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.8
	Excavating Company: Glacier Environmental	
Logged By: Holly Comer	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-0.3' Gravelly SAND, fine to medium sand, fine to medium, subrounded gravel, with asphalt debris, trace roots, gray, moist.	SP	-	C14-0.5	
		0.3-1.9' With whole brick debris, becomes brown.				
	X	1.9-2.2' Becomes light gray.		-	C14-1.9	
		2.2-2.8' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park Project: South Park Property Location: Seattle, Washington	Date/Time Started: 4/5/07	Sampler Type: NA
	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Farallon PN: 408-002 Logged By: Holly Corner	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.6
	Excavating Company: Glacier Environmental	
	Excavating Foreman: unknown	
Excavating Method: Backhoe		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-0.3' Gravelly SAND, fine to medlum sand, fine to medium gravel, with abundant debris (asphalt, wire), trace roots, gray-brown, moist.	SP	1	C15-0.5	
	X	0.3-1.5' With whole brick debris.		1	C15-1.1	
		1.5-2.6' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07 **Sampler Type:** NA
Date/Time Completed: 4/5/07 **Depth of Water (ft bgs):** NA
Equipment: Backhoe **Total Excavation Depth (ft bgs):** 2.1
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-0.9' Sandy GRAVEL, fine to coarse (up to 8" cobbles), subangular to subrounded, minor sand, fine to medium, minor whole brick debris, trace to minor roots, moist.	GP	-	C16-0.5	
	X	0.9-1.8' SAND with gravel, fine to medium sand, fine to medium gravel, brown, abundant roots at 1.6 to 1.8', moist.	SP	-		
	X	1.8-2.1' DEBRIS with sand, fine to medium, orange-brown.	DB	-	C16-1.6	
5						



Client: Mr. Rob Howie, South Park Project: South Park Property Location: Seattle, Washington	Date/Time Started: 4/5/07	Sampler Type: NA
	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Farallon PN: 408-002 Logged By: Holly Corner	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.2
	Excavating Company: Glacier Environmental	
	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-0.8' Sandy GRAVEL, fine to medium, subangular to subrounded gravel, minor whole brick debris, minor roots, moist.	GP	-	C17-0.5	
	X	0.8-1.4' SAND with gravel, fine to medium sand, find to medium, subrounded gravel, brown, moist.	SP	-	C17-1.2	
		1.4-2.2' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park	Date/Time Started: 4/5/07	Sampler Type: NA
Project: South Park Property	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Location: Seattle, Washington	Equipment: Backhoe	Total Excavation Depth (ft bgs): 3.1
Farallon PN: 408-002	Excavating Company: Glacier Environmental	
Logged By: Holly Corner	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0		0-0.4' Sandy GRAVEL, fine to coarse, subrounded gravel, fine to medium sand, with brick debris, brown, moist.	GP			
	X	0.4-2.2' SAND, fine to medium, trace gravel, fine, trace roots, brown with some orange staining, moist.	SP			C18-0.5
	X	2.2-3.1' DEBRIS	DB			C18-2.1
5						



Client: Mr. Rob Howie, South Park	Date/Time Started: 4/5/07	Sampler Type: NA
Project: South Park Property	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Location: Seattle, Washington	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.1
Farallon PN: 408-002	Excavating Company: Glacier Environmental	
Logged By: Holly Corner	Excavating Foreman: unknown	
	Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
0		0-0.9' SAND with gravel, fine to medium sand, fine to medium, subrounded gravel, with roots, trace silt, gray-brown, moist.	SP	-	C19-0.5	
		0.9-1.8' Sandy SILT, firm, minor sand, fine to medium, trace to minor debris, light brownish gray, moist.	ML	-	C19-1.5	
		1.8-2.1' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07 **Sampler Type:** NA
Date/Time Completed: 4/5/07 **Depth of Water (ft bgs):** NA
Equipment: Backhoe **Total Excavation Depth (ft bgs):** 2.3
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Farallon PN: 408-002

Logged By: Holly Comer

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-1.0' Gravelly SAND, fine to medium sand, fine to medium, subround gravel, with cement and brick debris, trace silt, gray-brown, moist.	SP	-	C20-0.5	
	X	1.0-1.5' Sandy SILT, firm, fine to medium sand, trace debris, moist.	ML	-	C20-1.3	
		1.5-2.3' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07
Date/Time Completed: 4/5/07
Equipment: Backhoe
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Sampler Type: NA
Depth of Water (ft bgs): NA
Total Excavation Depth (ft bgs): 2.2

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PTD (ppm)	Sample ID	Sample Analyzed
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0		0-0.5' SAND with silt and gravel, fine sand, fine to medium gravel, brown, moist.	SP-SM			
	X	0.5-0.7' SAND, fine to medium, minor gravel, fine, subrounded, trace silt, very light gray, moist.	SP	=	C21-0.5 C21-0.6	
		0.7-2.2' DEBRIS	DB			
5						



FARALLON CONSULTING
 975 5th Avenue Northwest
 Issaquah, WA 98027

Log of Test Pit: C-22

Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07 **Sampler Type:** NA
Date/Time Completed: 4/5/07 **Depth of Water (ft bgs):** NA
Equipment: Backhoe **Total Excavation Depth (ft bgs):** 3.0
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-0.7' SAND with silt and gravel, fine sand, fine gravel, gray-brown, moist.	SP-SM	-	C22-0.5 C22-0.7	
	X	0.7-1.9' SAND with gravel, fine to medium sand, fine to medium, subrounded gravel, minor burned wood debris.	SP	-		
		1.9-3.0' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07 **Sampler Type:** NA
Date/Time Completed: 4/5/07 **Depth of Water (ft bgs):** NA
Equipment: Backhoe **Total Excavation Depth (ft bgs):** 2.1
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0		0-0.6' SAND with silt and gravel, fine to medium sand, fine gravel, gray-brown, moist.	SP-SM			
	X	0.6-0.7' SAND with gravel, fine to medium sand, fine to medium, subangular gravel, very light gray, moist.	SP		C23-0.5	
		0.7-1.6' SILT with sand, fine sand, gray with orange staining, moist.	ML			
	X	1.6-2.1' DEBRIS.	DB		C23-1.5	
5						



Client: Mr. Rob Howie, South Park Project: South Park Property Location: Seattle, Washington	Date/Time Started: 4/5/07	Sampler Type: NA
	Date/Time Completed: 4/5/07	Depth of Water (ft bgs): NA
Farallon PN: 408-002 Logged By: Holly Corner	Equipment: Backhoe	Total Excavation Depth (ft bgs): 2.5
	Excavating Company: Glacier Environmental	
	Excavating Foreman: unknown Excavating Method: Backhoe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-0.7' Silty SAND with gravel, fine to medium sand, fine to coarse, subrounded to subangular gravel, with organic material, dark gray-brown, moist.	SM	-	C24-0.5	
		0.7-1.5' Becomes fine sand, mottled, dark gray.				
	X	1.5-2.2' Sandy SILT, fine sand, trace fine gravel, light brown-gray, moist, manure-like odor.	ML	-	C24-1.7	
		2.2-2.5' DEBRIS	DB			
5						



Client: Mr. Rob Howie, South Park
Project: South Park Property
Location: Seattle, Washington

Date/Time Started: 4/5/07
Date/Time Completed: 4/5/07
Equipment: Backhoe
Excavating Company: Glacier Environmental
Excavating Foreman: unknown
Excavating Method: Backhoe

Sampler Type: NA
Depth of Water (ft bgs): NA
Total Excavation Depth (ft bgs): 2.2

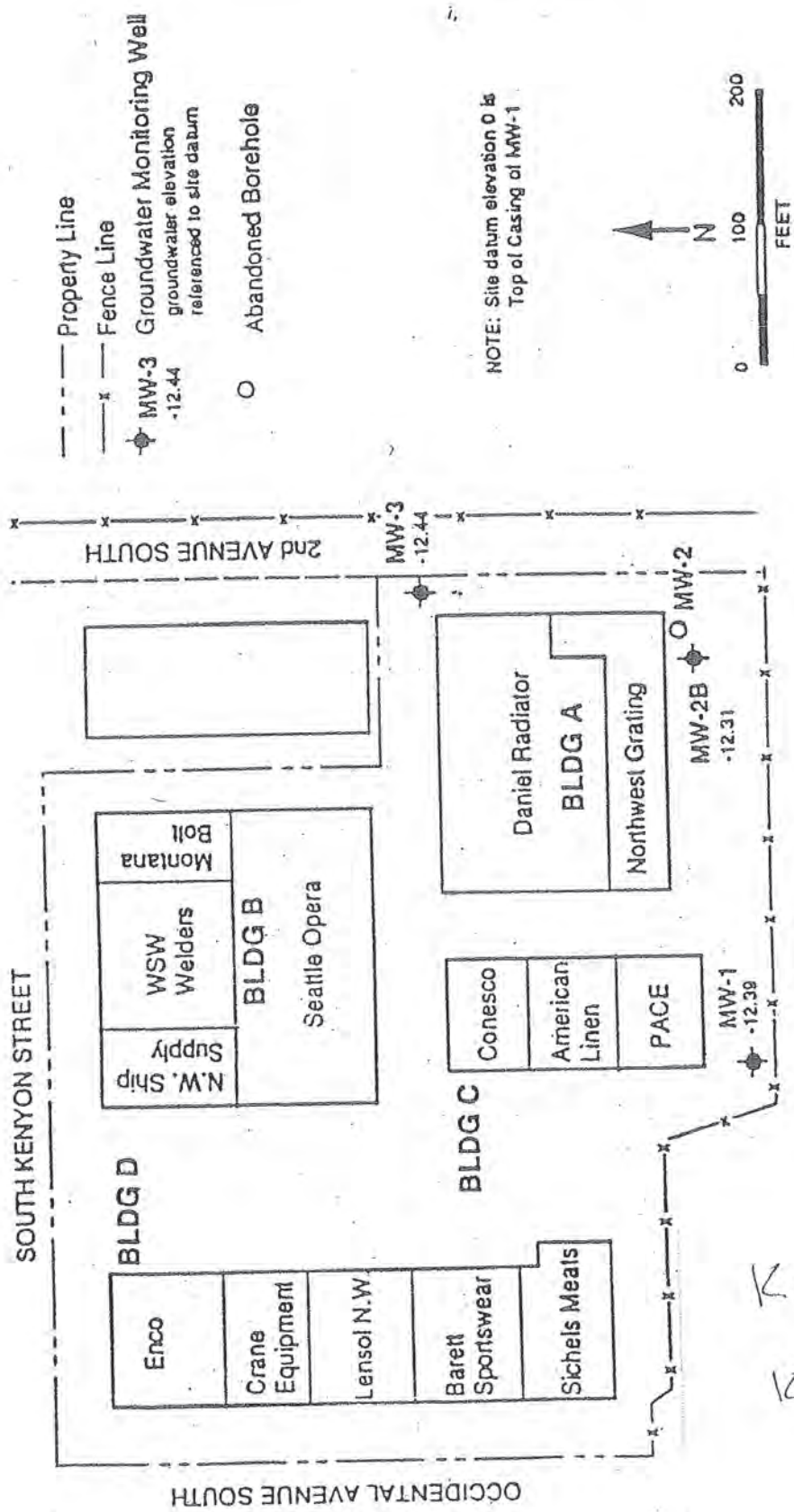
Farallon PN: 408-002

Logged By: Holly Corner

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	PID (ppm)	Sample ID	Sample Analyzed
-------------------	-----------------	------------------------	------	-----------	-----------	-----------------

0	X	0-1.2' Silty SAND with gravel, fine to medium sand, fine to coarse, subrounded gravel, trace to minor roots, minor debris (asphalt, plastic bag), dark gray, moist.	SM	-	C25-0.5	
	X	1.2-1.9' Sandy SILT, fine sand, trace to minor gravel, fine, subrounded to subangular, brown-gray, moist.	ML	-	C25-1.7	
		1.9-2.2' DEBRIS	DB			
5						

Historical Kenyon Industrial Park Borings/Wells

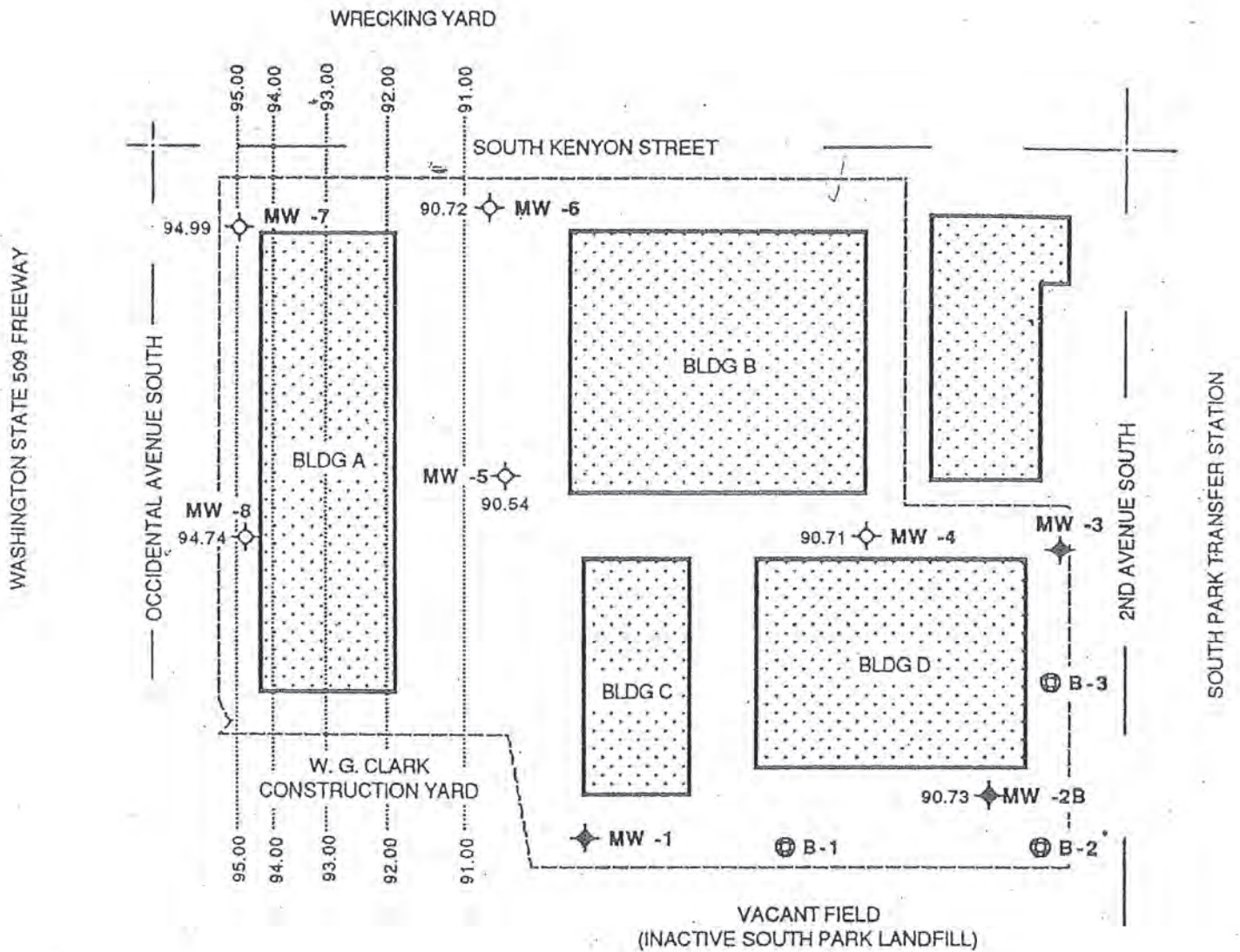


KMW
Kenyan wells

FIGURE 4
LOCATION OF MONITORING WELLS
NORTHWEST GRATING
SAMMS

Golder Associates

Wells ID
KMW-01
Boring ID - KB-01





EXPLANATION

- = PROJECT AREA BOUNDARY
- MW -1 = GOLDER MONITORING WELLS
- B-1 = DEI SOIL BORINGS
- MW-4 90.71 = DEI MONITORING WELLS (WITH GROUNDWATER ELEVATION)
- 94.00 = GROUNDWATER ELEVATION CONTOUR



**FIGURE 3 - GROUNDWATER GRADIENT
 KENYON INDUSTRIAL PARK
 NOT TO SCALE**

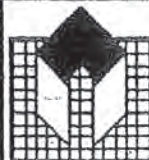
WELL CONSTRUCTION	SAMPLE NO.	BLOW COUNT	DEPTH (FT)	USCS SYM.	LITH.	DESCRIPTION
 <p>CONCRETE</p> <p>BENTONITE</p> <p>BACKFILL - NO WELL</p>	<p>B-1-3</p> <p>B-1-8</p>	<p>4-2-1</p> <p>5-5-3</p>	<p>5</p> <p>10</p> <p>15</p> <p>20</p> <p>25</p>	<p>CL</p> <p>SW</p>		<p>ASPHALT 4".</p> <p>CLAY, SILTY CLAY, PLASTIC, DAMP.</p> <p>BRICK & GRAVEL, SAND, REDDISH.</p> <p>REDDISH SAND AND GRAVEL, SATURATED.</p>

BORING NO. **B-1**

SURFACE ELEVATION: 10 FEET
TOTAL DEPTH: 8 FEET
DATE DRILLED: 3/11/92

LOGGED BY: NEIL GILHAM
DRILL RIG: MOBILE DRILL B-61
DIAMETER OF BORING: 8 INCH
WATER ENCOUNTERED AT: 8 FEET

LIBERTY/SAMMIS - SEATTLE
PROJECT NAME: KENYON INDUSTRIAL PARK
PROJECT NO. 1A2996AA001
LOCATION: SOUTH PARK, SEATTLE, WA



DIAGNOSTIC ENGINEERING INC.
6347 SEAVIEW AVE NW, SEATTLE, WA

LOG
1
OF 8
04/14/92

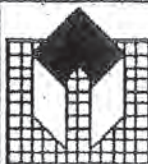
WELL CONSTRUCTION	SAMPLE NO.	BLOW COUNT	DEPTH (FT)	USCS SYM.	LITH.	DESCRIPTION
CONCRETE						AKA #KB-02 2 ASPHALT 4".
BENTONITE	B-2-3.5	2-3-4		SM		SANDY SILTY CLAY, FILL, LOOSE.
	B-2-DRILL CUTTING SAMPLE 5' TO 8'		5	CL		SILTY CLAY, GRAY, PLASTIC, DAMP..
	B-2-8.5	3-4-3				DARK, SILTY CLAY WITH DEBRIS, BRICK, RUBBER, METAL.
			10			
BACKFILL - NO WELL	B-2-13.5	1-2-2		SW		DARK, GRAVEL, SANDY, LOOSE WITH DEBRIS, SATURATED.
			15			
			20			
			25			

BORING NO. B-2

SURFACE ELEVATION: 10 FEET
 TOTAL DEPTH: 13.5 FEET
 DATE DRILLED: 3/11/92

LOGGED BY: NEIL GILHAM
 DRILL RIG: MOBILE DRILL B-61
 DIAMETER OF BORING: 8 INCH
 WATER ENCOUNTERED AT: 10 FEET

LIBERTY/SAMMIS - SEATTLE
 PROJECT NAME: KENYON INDUSTRIAL PARK
 PROJECT NO. 1A2996AA001
 LOCATION: SOUTH PARK, SEATTLE, WA





DIAGNOSTIC ENGINEERING INC.

6347 SEAVIEW AVE NW, SEATTLE, WA

LOG
2
 OF 8

04/14/92

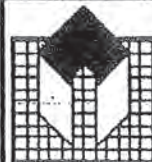
WELL CONSTRUCTION	SAMPLE NO.	BLOW COUNT	DEPTH (FT)	USCS SYM.	LITH.	DESCRIPTION
 <p>CONCRETE</p> <p>BENTONITE</p> <p>BACKFILL - NO WELL</p>	B-3-3	7-9-14	<p>5</p> <p>10</p> <p>15</p> <p>20</p> <p>25</p>	<p>SW</p> <p>CL</p> <p>SW</p>		<p>AKA - KB-03 B</p> <p>ASPHALT 4".</p> <p>SANDY, GRAVEL, LOOSE FILL.</p> <p>GRAY SILTY CLAY, FIRM, PLASTIC, DAMP.</p> <p>HARD OBJECT AT 4'.</p> <p>SANDY, GRAVELLY DEBRIS, METAL, BRICK.</p> <p>STOPPED AT 8' DUE TO OUTGASSING OF POTENTIALLY FLAMMABLE/ EXPLOSIVE LEVELS OF GAS.</p>

BORING NO. B-3

SURFACE ELEVATION: 10 FEET
 TOTAL DEPTH: 8 FEET
 DATE DRILLED: 3/11/92

LOGGED BY: NEIL GILHAM
 DRILL RIG: MOBILE DRILL B-61
 DIAMETER OF BORING: 8 INCH
 WATER ENCOUNTERED AT: 0 FEET

LIBERTY/SAMMIS - SEATTLE
 PROJECT NAME: KENYON INDUSTRIAL PARK
 PROJECT NO. 1A2996AA001
 LOCATION: SOUTH PARK, SEATTLE, WA



DIAGNOSTIC ENGINEERING INC.

6347 SEAVIEW AVE NW, SEATTLE, WA

LOG
3
 OF 8

04/14/92

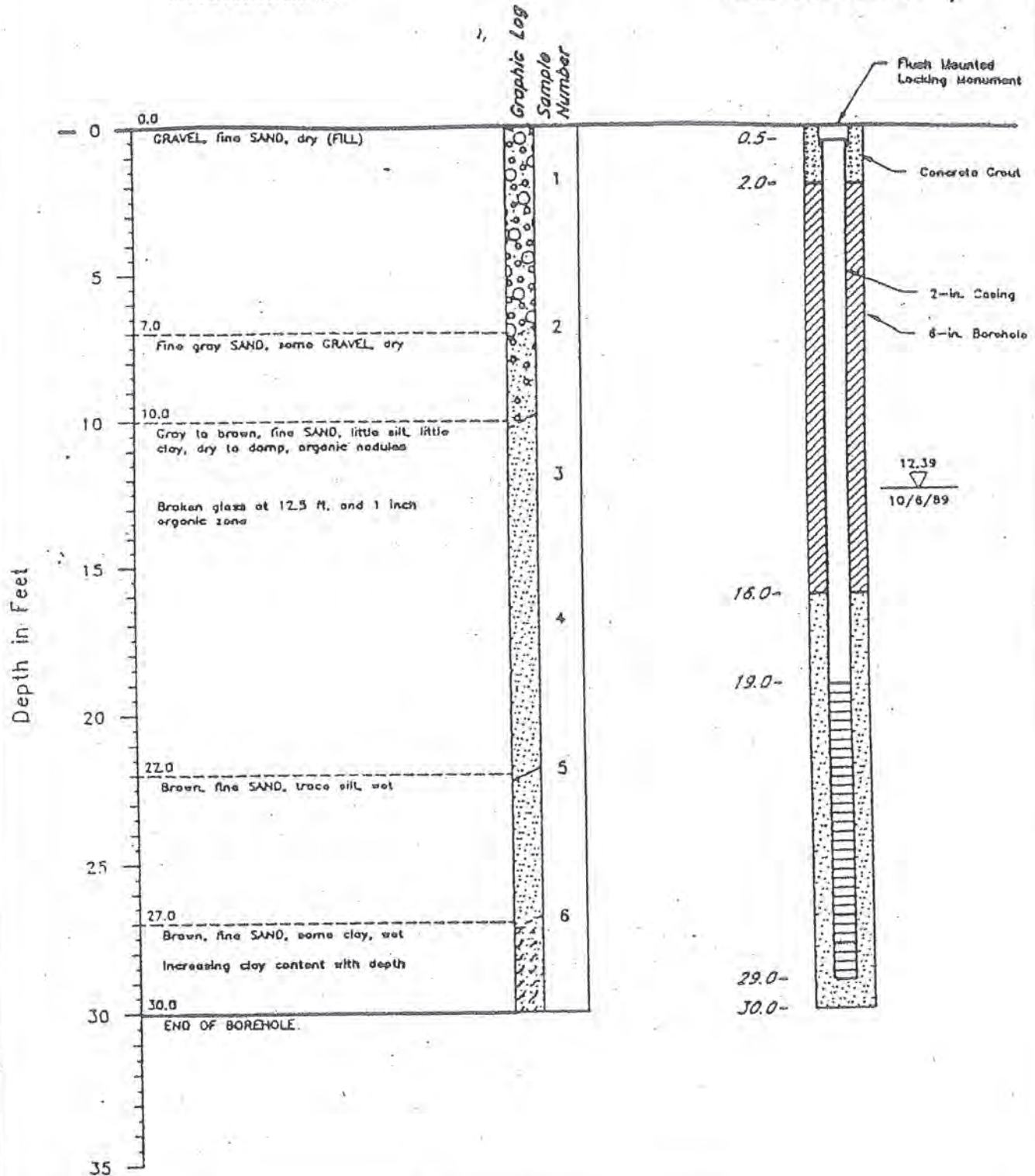
AKA

KMW-01

KMW-01A

STRATIGRAPHY

WELL COMPLETION



WELL COMPLETION LEGEND:

- Bentonite Chips
- No. 8 Aqua Sand
- Water Level
- 2" PVC
- 2" PVC Well Screen 0.020-slot

NOT TO SCALE

Date: 9/28/89
 Ground Elevation = 15.0
 Drill Rig: Mobile B-81
 Drill Method: Hollow Stem Auger
 Sampling Method: Spill Spoon

FIGURE A-1
 SHEET 1 OF 1
 BORING **MW-1**
 STRATIGRAPHY AND WELL COMPLETION
 SAMMIS

Date Start/Finish: 10/16/95 / 10/16/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

Well Casing Elev.: 8.72 ft.
 Borehole Depth: 21.5 ft.
 Ground Surface Elev.: 9.32 ft.
 Geologist: David W. Lay

Well No. MW-1A
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 9.32 ft										GROUND SURFACE	
										ASPHALT	Well cap.
5		1	6 6 7	13	0.8	0.0				CLAY: Dark brown, some silt, soft, moist, no odor. Grades with little fine sand.	Flush mount protective casing Cement pad to 2.0' bgs. Bentonite seal, (2.0' - 5.0' bgs). 2-inch schedule-40 PVC riser, (0.6' - 8.0' bgs). 0.010" Slotted well screen, (8.0' - 21.0' bgs).
10		2	6 8 9	17	0.5	0.0				SILT: Black, stained, some fine to coarse sand, little clay, loose, wet, slight hydrocarbon odor.	
-5										SILT and SAND: Dark brown/black, fine, trace organics, glass, wood fragments, loose, wet (FILL).	Sand pack, (5.0' - 21.0' bgs).




Remarks:

Saturated Zones		
Date / Time	Elevation	Depth
10-20-95/ 1030	-0.8	0.62

Client:
Seattle, Washington

Well No. MH-1A
Total Depth = 21.5 ft.

Site:
Nevander Asset Management, Inc.

DEPTH	ELEVATION	Sample Run Number	Sample/Int./Type	Blows/6 In.	N	Recovery (ft.)	P10 (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
		3		7 7 8	15	1.5	0.0			SILT and SAND: Dark brown/black, fine, trace organics, glass, wood fragments, loose, wet (FILL). Grades with slight sewage odor. Bottom of boring at 21.5' bgs.	 <p>0.010" Slotted well screen. (8.0' - 21.0' bgs).</p> <p>Sand pack. (5.0' - 21.0' bgs).</p>
		4		7 10 13	23	1.5	0.0				
-20											
-25											
-30											
-35											



BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Saturated Zones

Date / Time	Elevation	Depth
10-20-95/ 1030	-0.9	9.62' ✓

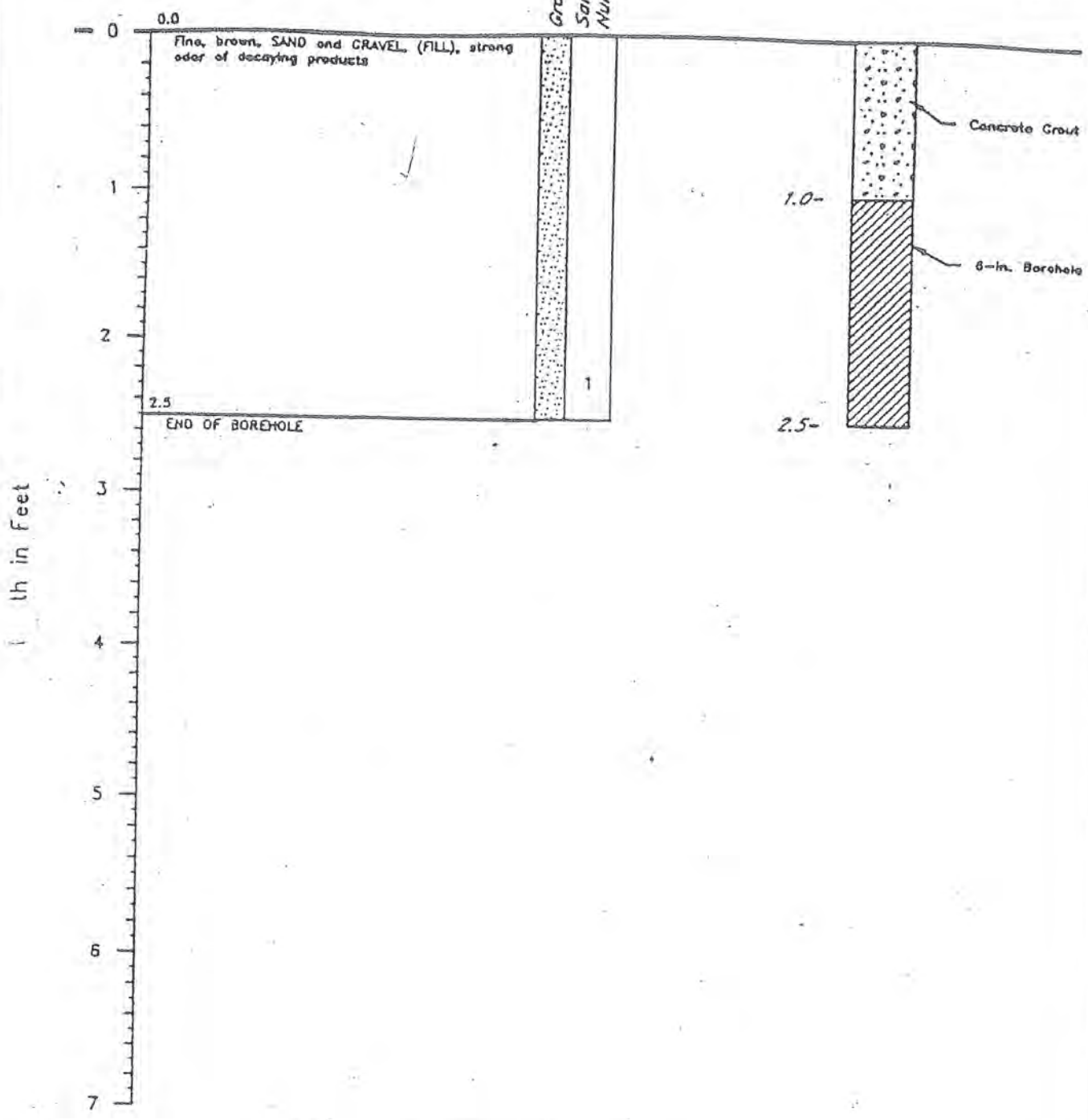
AKA

KMW-02

STRATIGRAPHY

WELL COMPLETION

Graphic Log
Sample
Number



WELL COMPLETION LEGEND:

- Bentonite Chips
 - 2" PVC
 - 2" PVC Well Screen 0.020-slot
 - Water Level
- NOT TO SCALE

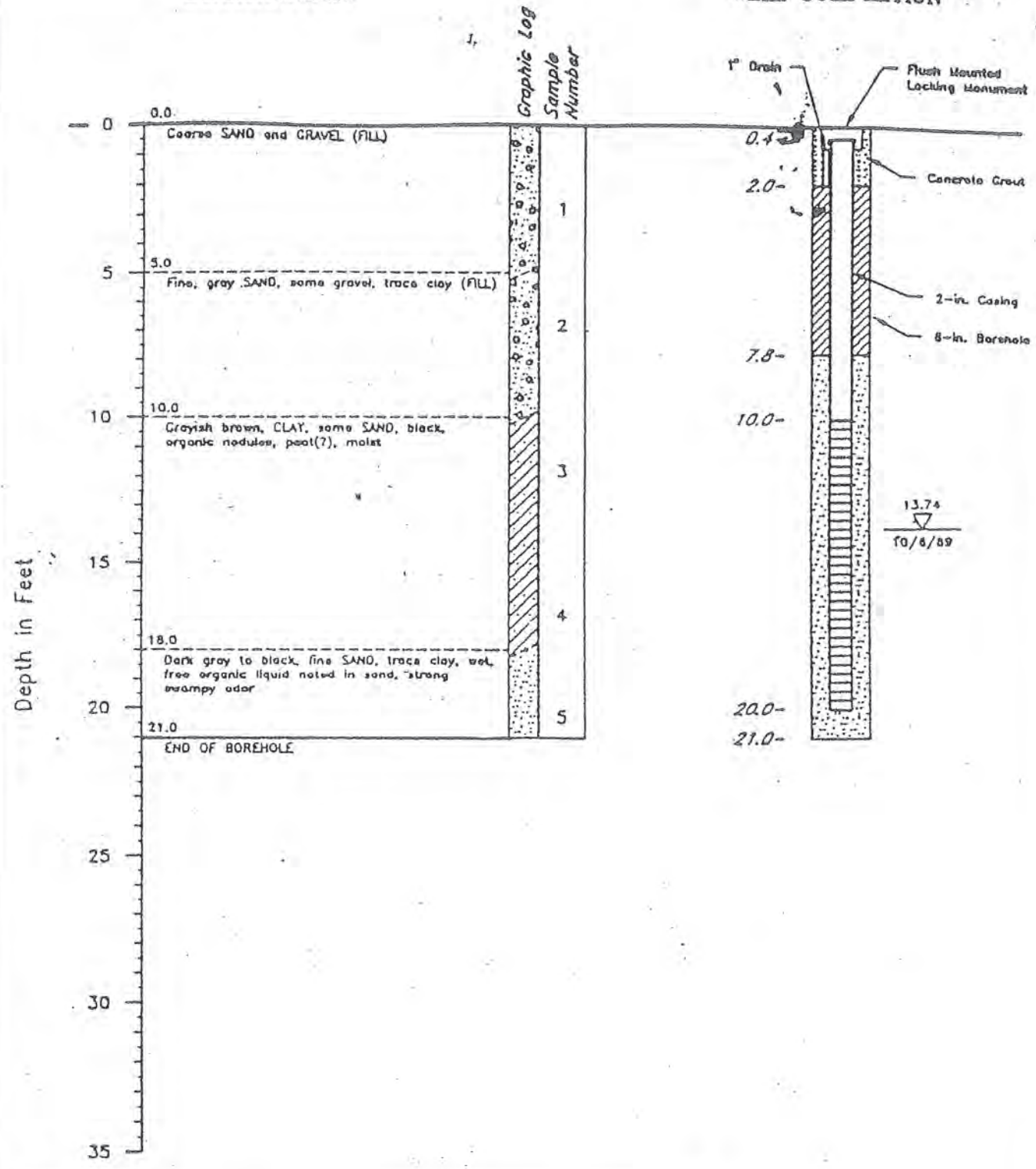
Date: 9/20/89
 Ground Elevation: -15.0
 Drill Rig: Mobile B-81
 Drill Method: Hollow Stem Auger
 Sampling Method: Spill Spoon

FIGURE A-2
 SHEET 1 OF 1

BORING **MW-2**
 STRATIGRAPHY AND
 WELL COMPLETION
 SAMMIS

STRATIGRAPHY

WELL COMPLETION



WELL COMPLETION LEGEND:

- Bentonite Chips
- No. 8 Aquic Sand
- Water Level
- 2" PVC
- 2" PVC Well Screen 0.020-slot
- NOT TO SCALE

Date: 9/28/89
 Ground Elevation: -15.0
 Drill Rig: Mobile B-61
 Drill Method: Hollow Stem Auger
 Sampling Method: Split Spoon

FIGURE A-3
 SHEET 1 OF 1
 BORING NMW-2B
 STRATIGRAPHY AND WELL COMPLETION
 SAMMIS

AKA

KMW-03A


3A

Date Start/Finish: 10/16/95 / 10/16/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

Well Casing Elev.: 9.33 ft.
 Borehole Depth: 24 ft.
 Ground Surface Elev.: 10.08 ft.
 Geologist: David W. Lay

Well No. **MW-3A**
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int./Type	Blows/6 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
	10.08 ft.									GROUND SURFACE	
										ASPHALT	Well cap.
										SAND: Grey/green, fine to medium, some silt and gravel, trace cobbles, loose, moist.	Flush mount protective casing Cement pad to 2.0' bgs. Bentonite seal (2.0' - 7.5' bgs). 2-inch schedule-40 PVC riser, (0.0' - 9.0' bgs).
5	5	1		25 50	>50	0.2	0.0				
		2		20 20 30	50	1	0.0			WOOD FRAGMENTS, Brown, loose, moist (FILL).	
10	0	3		18 19 20	39	0.0	0.0				0.010" Slotted well screen, (9.0' - 24.0' bgs).
		4		20 21 45	>50	0.1	0.0			Grades with sand, wet, creosote odor.	
										SAND: Brown, fine, some silt, little medium to coarse sand, trace wood particles, loose, wet (FILL).	Sand pack, (7.5' - 24.0' bgs).



BLASLAND, BOUCK & LEE
 ENGINEERS & SCIENTISTS

Remarks:

Saturated Zones		
Date / Time	Elevation	Depth
10-20-95/1030	-1.99	11.32

Client:
Seattle, Washington

Well No. MW-3A
Total Depth = 24 ft.

Site:
Nevander Asset Management, Inc.

DEPTH	ELEVATION	Sample Run Number	Sample/In/T/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
		5		9 12 18	30	1.0	0.0			SAND: Brown, fine, some silt, little medium to coarse sand, trace wood particles, loose, wet (FILL).	<p>0.010" Slotted well screen, (9.0' - 24.0' bgs).</p> <p>Sand pack, (7.5' - 24.0' bgs).</p>
20		6		20 28 30	>50	1.5	0.0		SILT: Dark grey, little very fine sand, dense, wet, no odor.		
		7		20 21 25	46	1.5	0.0		SAND: Dark grey, trace silt, loose, wet, slight hydrocarbon odor.		
25									Bottom of boring at 24.0' bgs.		
30											
35											



BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Saturated Zones

Date / Time	Elevation	Depth
10-20-95/ 1030	-1.99	11.32 √

11/15/95 10:30 AM MW-3A 24.0' bgs

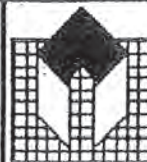
WELL CONSTRUCTION	SAMPLE NO.	BLOW COUNT	DEPTH (FT)	USCS SYM.	LITH.	DESCRIPTION
TRAFFIC-RATED WELL COVER CONCRETE				SM	ASPHALT 4"	
BENTONITE				SM		GRAY, CLAYEY, SANDY, SILT, PLASTIC MOIST.
5' RISER SECTION - 2" O.D. SCHEDULE 40 PVC CASING	MW-4-3.5	2-2-2	5	SW		DARK, SANDY, GRAVELLY DEBRIS, METAL, BRICK, WOOD.
10/20 SILICA SAND FILTER PACK	MW-4-8.5	7-00	10			OUTGASSING - 5 TO 7 FEET.
15' SCREEN SECTION - 2" O.D. SCHEDULE 40 PVC CASING - 0.01" SLOT	MW-4-13.5		15	ML		DARK, SANDY, GRAVELLY DEBRIS, METAL, BRICK, WOOD.
			20	SM		GRAY, SILTY CLAY WITH DARK SPOTS, VERY PLASTIC, SATURATED.
			25			GRAY, SANDY SILT.

BORING NO. MW-4

SURFACE ELEVATION: 10 FEET
TOTAL DEPTH: 21 FEET
DATE DRILLED: 3/11/92

LOGGED BY: NEIL GILHAM
DRILL RIG: MOBILE DRILL B-61
DIAMETER OF BORING: 8 INCH
WATER ENCOUNTERED AT: 12 FEET

LIBERTY/SAMMIS - SEATTLE
PROJECT NAME: KENYON INDUSTRIAL PARK
PROJECT NO. 1A2996AA001
LOCATION: SOUTH PARK, SEATTLE, WA



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INC.**

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WELL CONSTRUCTION	SAMPLE NO.	BLOW COUNT	DEPTH (FT)	USCS SYM.	LITH.	DESCRIPTION
<p>TRAFFIC-RATED WELL COVER - CONCRETE</p> <p>BENTONITE</p> <p>5' RISER SECTION - 2" O.D. SCHEDULE 40 PCV CASING</p> <p>10/20 SILICA SAND FILTER PACK</p> <p>15' SCREEN SECTION - 2" O.D. SCHEDULE 40 PCV CASING - 0.01" SLOT</p>	<p>MW-5-3.5</p> <p>MW-5-8.5</p> <p>MW-5-13.5</p>	<p>3-5-7</p> <p>2-1-0</p> <p>1-0</p>	<p>5</p> <p>10</p> <p>15</p> <p>20</p> <p>25</p>	<p>SM</p> <p>ML</p> <p>SM</p>		<p>ASPHALT 4".</p> <p>SANDY SILT, LIGHT GRAY, FIRM, DAMP.</p> <p>DARK GREEN GRAY, SILTY CLAY, PLASTIC, WET.</p> <p>DARK GREEN GRAY, SILTY CLAY TO SANDY SILT, PLASTIC, WET, ORGANIC MATERIAL, SOME DEBRIS.</p> <p>DARK GREEN GRAY, SILTY SAND, WET.</p>

KMW-05

BORING NO. MW-5

SURFACE ELEVATION: 10 FEET
 TOTAL DEPTH: 21 FEET
 DATE DRILLED: 3/12/92

LOGGED BY: NEIL GILHAM
 DRILL RIG: MOBILE DRILL B-61
 DIAMETER OF BORING: 8 INCH
 WATER ENCOUNTERED AT: 6.5 FEET

LIBERTY/SAMMIS - SEATTLE
 PROJECT NAME: KENYON INDUSTRIAL PARK
 PROJECT NO. 1A2996AA001
 LOCATION: SOUTH PARK, SEATTLE, WA



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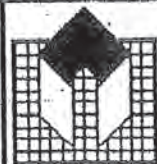
WELL CONSTRUCTION	SAMPLE NO.	BLOW COUNT	DEPTH (FT)	USCS SYM.	AKA LITH.	KMW-06 DESCRIPTION
TRAFFIC-RATED WELL COVER CONCRETE						ASPHALT 4"
BENTONITE	MW-6-GRAB					BROWN/GRAY SANDY GRAVEL, POORLY SORTED.
5' RISER SECTION - 2" O.D. SCHEDULE 40 PVC CASING	MW-6-3.5	15-27-15	5			BROWN/GRAY SANDY GRAVEL WITH LARGER GRIT. ASPHALT AND GRAVEL WITH DEBRIS, BLACK PLASTIC.
10/20 SILICA SAND FILTER PACK	MW-6-8.5	7-3-5	10	GW		GRAY, DARK GRAY, BROWN, MEDIUM GRIT SAND WITH DEBRIS.
15' SCREEN SECTION - 2" O.D. SCHEDULE 40 PVC CASING - 0.01" SLOT			15	SW		BROWN/GRAY, ROCK, SANDY GRAVEL, POORLY SORTED.
			20			GRAY/BROWN SILTY SAND.
			25			

BORING NO. MW-6

SURFACE ELEVATION: 10 FEET
TOTAL DEPTH: 21 FEET
DATE DRILLED: 3/12/92

LOGGED BY: BILL OFSTUN
DRILL RIG: MOBILE DRILL B-61
DIAMETER OF BORING: 8 INCH
WATER ENCOUNTERED AT: 8 FEET

LIBERTY/SAMMIS - SEATTLE
PROJECT NAME: KENYON INDUSTRIAL PARK
PROJECT NO. 1A2996AA001
LOCATION: SOUTH PARK, SEATTLE, WA







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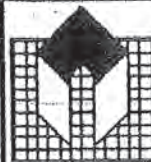
WELL CONSTRUCTION	SAMPLE NO.	BLOW COUNT	DEPTH (FT)	USCS SYM.	AKA LITH.	<div style="border: 1px solid black; display: inline-block; padding: 2px;">KMW-07</div> DESCRIPTION
TRAFFIC-RATED WELL COVER CONCRETE BENTONITE	MW-7-3.5	3-3-1	5	SW		ASPHALT 4". GRAVEL FILL
5' RISER SECTION - 2" O.D. SCHEDULE 40 PVC CASING	MW-7-8.5	6-5-6	10	SM		GRAY GRAVELLY SAND, POORLY SORTED, WET.
10/20 SILICA SAND FILTER PACK	MW-7-13.5	12-18-20	15	SM		GRAY SILTY SAND, POORLY SORTED, WET.
15' SCREEN SECTION - 2" O.D. SCHEDULE 40 PVC CASING - 0.01" SLOT	MW-7-18.5	7-4-7	20	SM		GRAY SILTY SAND, ORGANIC MATERIAL, WET.
NATIVE SOIL COLLAPSE AT 17'			25			SILTY FINE SAND, GRAY BROWN, WITH SHELLS AND PLANT MATERIAL.

BORING NO. MW-7

SURFACE ELEVATION: 10 FEET
 TOTAL DEPTH: 20 FEET
 DATE DRILLED: 3/12/92

LOGGED BY: BILL OFSTUN
 DRILL RIG: MOBILE DRILL B-61
 DIAMETER OF BORING: 8 INCH
 WATER ENCOUNTERED AT: 5 FEET

LIBERTY/SAMMIS - SEATTLE
 PROJECT NAME: KENYON INDUSTRIAL PARK
 PROJECT NO. 1A2996AA001
 LOCATION: SOUTH PARK, SEATTLE, WA



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WELL CONSTRUCTION	SAMPLE NO.	BLOW COUNT	DEPTH (FT)	USCS SYM.	AKA LITH.	DESCRIPTION
TRAFFIC-RATED WELL COVER CONCRETE						ASPHALT 4". GRAY, HARD, ASH-TUFFLIKE MATERIAL
BENTONITE	MW-8-3.5	3-5-1	5	CL		YELLOW BROWN, SILTY CLAY, PLASTIC MOIST.
5' RISER SECTION - 2" O.D. SCHEDULE 40 PVC CASING	MW-8-8.5	3-3-6	10	SW		WATER AT 6.5 FEET MEDIUM WELL SORTED DARK GRAY SAND, SATURATED.
10/20 SILICA SAND FILTER PACK			15			MEDIUM TO COSE DARK GRAY, WELL SORTED SAND, SATURATED.
15' SCREEN SECTION - 2" O.D. SCHEDULE 40 PVC CASING - 0.01" O.D.			20	CL		GRAY SILTY CLAY, PLASTIC, WET.
			25			

BORING NO. MW-8

SURFACE ELEVATION: 10 FEET
TOTAL DEPTH: 21 FEET
DATE DRILLED: 3/12/92

LOGGED BY: NEIL GILHAM
DRILL RIG: MOBILE DRILL B-61
DIAMETER OF BORING: 8 INCH
WATER ENCOUNTERED AT: 6.5 FEET

LIBERTY/SAMMIS - SEATTLE
PROJECT NAME: KENYON INDUSTRIAL PARK
PROJECT NO. 1A2996AA001
LOCATION: SOUTH PARK, SEATTLE, WA



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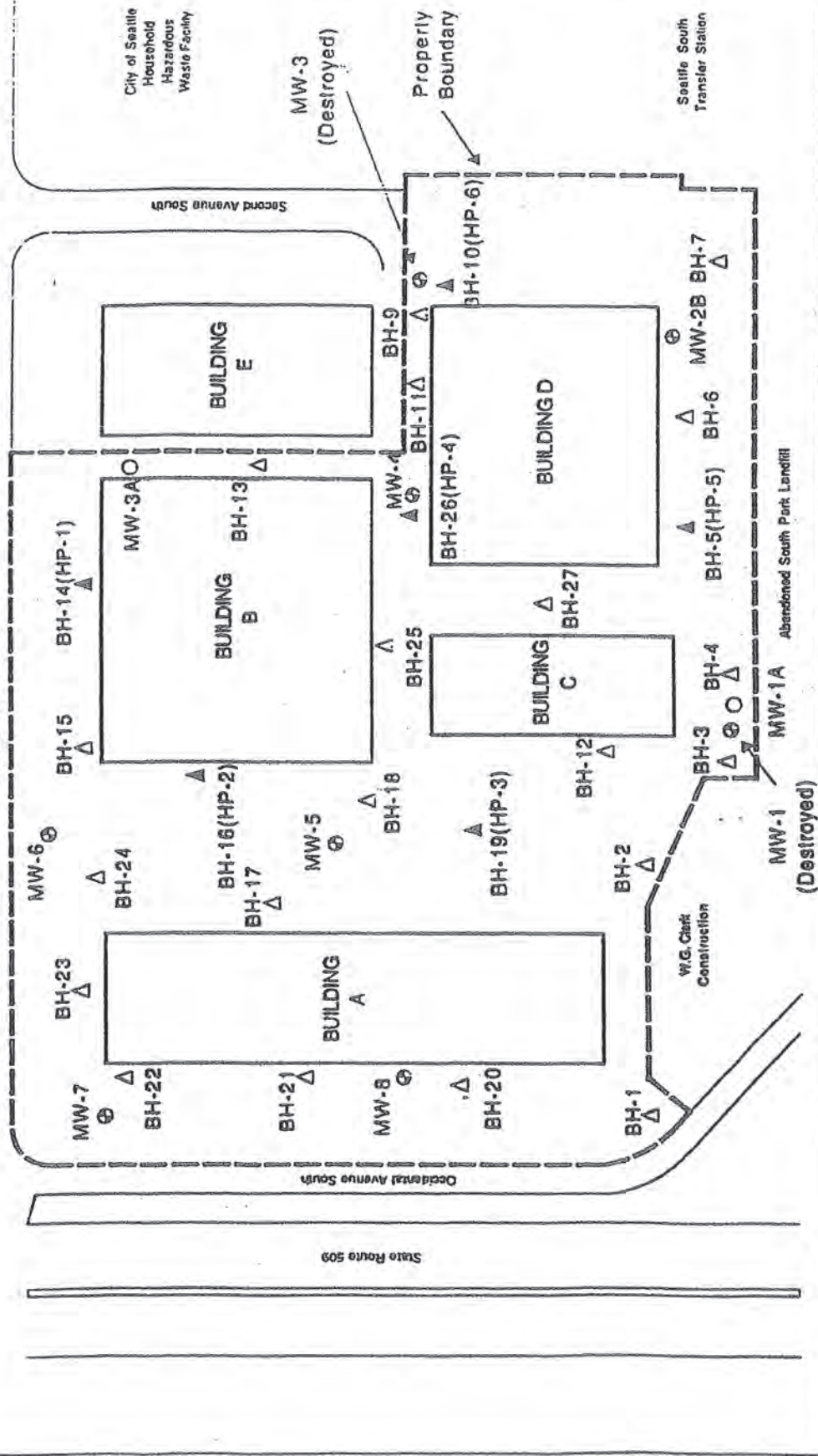
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Seattle/Tacoma
Treator Repair

Ryder Student
Transportation
South Kenyon Street

B & G
Auto Wrecking



NEVANDER ASSET MANAGEMENT, INC.
17875 Von Karman, Suite 325
Irvine, California

SEATTLE KENYON BUSINESS PARK
125-145 South Kenyon Street
Seattle, Washington 98148

SCHEMATIC PLOT PLAN WITH
PROPOSED SOIL BORINGS AND
PROPOSED MONITORING WELL LOCATIONS

FIGURE 2

EXPLANATION

- BH-1 Soil Gas Boring Location
- MW-8 Existing Monitoring Well
- MW-1A Replacement Monitoring Well
- Property Boundary
- Building Outline
- BH-14(HP-1) Soil Gas/Hydropunch Location

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS
Irvine, California

Approximate Scale
(in feet)

200 0 200

JMS101185

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile 861
 Spoon Size: 2-in.

AKA HP-01

Well No. HP-1

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

Borehole Depth: 19 ft.

Geologist: David W. Lay

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/8 in.	N	Recovery (%)	PI0 (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1	14 10 8	18	1.0	1.4				<i>Analyzed</i> SILT and SAND: Black/green, fine, some glass, brick, gravel, loose, moist (FILL).	Steel drive rod, (1.0' ags - 15' bgs).
10		2	4 4 2	6	1.0	79.9				SILT: Green, stiff, moist to wet, strong hydrocarbon odor.	8.25" Hollow stem auger, (0.5' ags - 15' bgs).
15										SILT and SAND: Dark brown, loose, wet, slight hydrocarbon odor.	



Remarks:
 Boring completed as a soil gas sampling location (BH-14).

Saturated Zones		
Date / Time	Elevation	Depth

Client:
Seattle, Washington

Well No. HP-1
Total Depth = 19' ft.

Site:
Nevander Asset Management, Inc.

DEPTH	ELEVATION	Sample Run Number	Sample/in./Type	Blows/6 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
		3		1 1 1	2	1.5	4.4			SILT and SAND: Dark brown, loose, wet, slight hydrocarbon odor.	<p>1 1/4" PVC 0.010" Slotted hydropunch screen, (15.0' - 18.0' bgs). Native soil.</p>
										Bottom of boring, hydropunch driven to 19' bgs.	
20											
25											
30											
35											



BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size : 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

AKA HP-02
 Borehole Depth: 14 ft.
 Geologist: David W. Lay

Well No. HP-2
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1	20 45 20	>50	0.5	--				<p><i>analyze soil</i></p> <p>SILT: Black/brown, some fine to coarse sand, nails, glass, refuse, loose, moist, no odor (FILL).</p>	<p>Steel drive rod, (1.0' ags - 10' bgs).</p> <p>8.25" Hollow stem auger, (10.5' ags - 10' bgs).</p>
10		2	2 2 2	4	1.5	37.3				<p>3-inch layer of black oily tar, petroleum hydrocarbon odor.</p> <p>SILT: Green/grey, some fine sand and organic matter, loose, wet (NATIVE).</p> <p>Bottom of boring, hydropunch driven to 14' bgs.</p>	<p>1 1/4" PVC 0.010" Slotted hydropunch screen, (10.0' - 14.0' bgs).</p> <p>Native soil.</p>
5											



Remarks:
 Boring completed as a soil gas sampling location (BH-18).


Saturated Zones		
Date / Time	Elevation	Depth

AKA

HP-03

Date Start/Finish: 10/17/95 / 10/17/95 Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Drilling Method: Hollow Stem Auger Bit Size: 8.25-in. Auger Size: 8.25-in. Rig Type: Mobile B61 Spoon Size: 2-in.	Borehole Depth: 14 ft. Geologist: David W. Lay	Well No. HP-3 Client: Nevander Asset Management, Inc. Location: Seattle, Washington
---	---	--

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/8 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
										CLAY: Light grey, soft, wet.	
										SAND and GRAVEL: Black, fine to coarse, loose, moist (FILL).	
5		1		50	>50	0.2	---			CONCRETE: Grey, loose, moist (FILL).	Steel drive rod, (1.0' ags - 10' bgs).
		2		50	>50	0.3	---				8.25" Hollow stem auger, (0.5' ags - 10' bgs).
		3		7	7	13	0.2	---		SILT and SAND: Dark brown, little clay, wood fibers, loose, moist, creosote odor (FILL).	
		4		4	4	9	1.5	8			
10				5						Bottom of boring, hydropunch driven to 14' bgs.	1 1/4" PVC 0.010" Slotted hydropunch screen, (10.0' - 14.0' bgs).
											Native soil.
5											



BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Boring completed as a soil gas sampling location (BH-19).

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/17/95 / 10/17/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size : 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

AKA

HP-04

Well No. HP-4

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

Borehole Depth: 14 ft.

Geologist: David W. Lay

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1		18 15 9	>50	1.0	4.9			SAND: Black, fine to coarse, some silt, copper wire, concrete, asbestos, refuse, loose, moist (FILL).	<p>Steel drive rod, (1.0' ags - 10' bgs).</p> <p>8.25" Hollow stem auger, (0.5' ags - 10' bgs).</p> <p>1 1/4" PVC 0.010" Slotted hydropunch screen, (10.0' - 14.0' bgs).</p> <p>Native soil</p>
10		2		7 3 4	7	1.0	4.9			Bottom of boring, hydropunch driven to 14' bgs.	
5											



BLASLAND, BOUCK & LEE
 ENGINEERS & SCIENTISTS

Remarks:

Boring completed as a soil gas sampling location (BH-26).

Saturated Zones

Date / Time	Elevation	Depth

AKA

HP-05

Well No. **HP-5**

Client:
Nevander Asset Management, Inc.

Location:
Seattle, Washington

Date Start/Finish: 10/16/95 / 10/16/95
Drilling Company: Tacoma Drilling Company
Driller's Name: Butch Dietsche
Drilling Method: Hollow Stem Auger
Bit Size: 8.25-in. Auger Size: 8.25-in.
Rig Type: Mobile 861
Spoon Size: 2-in.

Borehole Depth: 14 ft.

Geologist: David W. Lay

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1	12 12 10	22	1.0	1.6				SILT: Brown, red staining, some fine to medium sand, green/white powder, loose, moist, slight petroleum hydrocarbon odor (FILL).	Steel drive rod, (10' ags - 10' bgs). 8.25" Hollow stem auger, (0.5' ags - 10' bgs).
10		2	18 43 50	>50	0.5	4.9				Grades with concrete, tile fragments, metal, loose, wet, hydrocarbon odor.	1 1/4" PVC 0.010" Slotted hydropunch screen, (10.0' - 14.0' bgs).
15										Bottom of boring, hydropunch driven to 14' bgs.	Native soil.



Remarks:
Boring completed as a soil gas sampling location (BH-5).

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

AKA **HP-06**
 Borehole Depth: 23 ft.
 Geologist: David W. Lay

Well No. **HP-6**
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery: (ft.)	PTD (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1		20 34 34	>50	0.6	1.4			SILT and SAND: Green/grey, fine to medium, little coarse sand and fine gravel, loose, moist (FILL).	Steel drive rod, (10' ags - 18' bgs).
10		2		4 7 10	17	0.4	4.4			Grades with some glass and other refuse. (FILL).	8.25" Hollow stem auger, (0.5' ags - 16' bgs).
		3		4 2 2	4	1.5	1.4			CLAY: Black/grey, some organic matter, soft, wet.	
6										Bottom of boring, hypodrop punch driven to 23' bgs.	



Remarks:
 Boring completed as a soil gas sampling location (BH-9).

Saturated Zones		
Date / Time	Elevation	Depth

Client:
Seattle, Washington

Well No. HP-0
Total Depth = 23 ft.

Site:
Nevander Asset Management, Inc.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (%)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
20											<p>0.25" Hollow stem auger, (0.5' bgs to 18' bgs)</p> <p>1 1/4" PVC 0.010" Slotted hydropunch screen, (18.0' - 23.0' bgs)</p> <p>Native soil</p>
25											
30											
35											



Remarks:
Initial hydropunch driven to 16' bgs did not produce water, second successful hydropunch driven to 23' bgs.

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: 1-in.


AKA BH-01

Well No. BH-1
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

Borehole Depth: 6 ft.

Geologist: David W. Lay

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	<ul style="list-style-type: none"> Native backfill, (0.0' - 2.0' bgs). 1/4" Teflon tubing, 1.0' ags - 5.6' bgs. Hydrated bentonite seal, (2.0' - 4.0' bgs). Sand pack, (4.0' - 6.0' bgs). 1/4" Stainless steel screen point.
5											



BLASLAND, BOUCK & LEE
 ENGINEERS & SCIENTISTS

Remarks:


Saturated Zones		
Date / Time	Elevation	Depth

AKA

BH-02

Date Start/Finish: 10/19/95 / 10/19/95 Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Drilling Method: Solid Stem Auger Bit Size: 4-in. Auger Size: 4-in. Rig Type: Mobile B61 Spoon Size: -1-in.	Borehole Depth: 6 ft. Geologist: David W. Lay	Well No. BH-2 Client: Nevander Asset Management, Inc. Location: Seattle, Washington
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DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	



BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

AKA

BH-03

Well No. BH-3

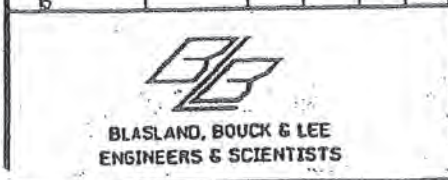
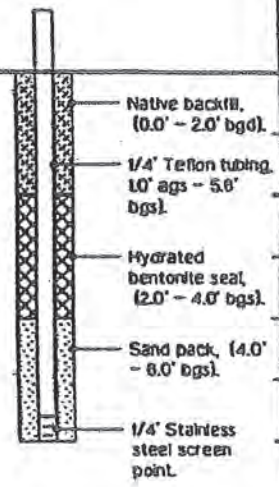
Borehole Depth: 6 ft.

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

Geologist: David W. Lay

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
15											



Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

AKA

BH-04

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

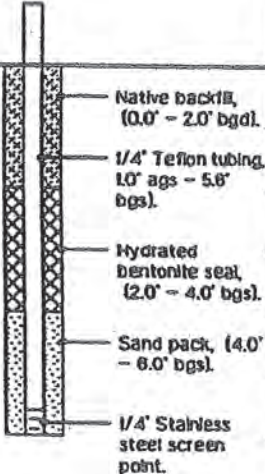
Borehole Depth: 6 ft.

Geologist: David W. Lay

Well No. **BH-4**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In/Type	Blows/6 In	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
5											



BLASLAND, BOUCK & LEE
 ENGINEERS & SCIENTISTS

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/16/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

AKA **BH-05**

Well No. **BH-5**

Borehole Depth: 14 ft.

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

Geologist: David W. Lay

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/8 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1		12 12 10	22	1.0	1.6			SILT: Brown, red staining, some fine to medium sand, green/white powder, loose, moist, slight petroleum hydrocarbon odor (FILL).	<ul style="list-style-type: none"> Native backfill (0.0' - 2.0' bgs) Hydrated bentonite seal (2.0' - 4.0' bgs) 1/4' Teflon tubing 1.0' ags - 5.6' bgs 1/4' Stainless steel screen point Sand pack (4.0' - 7.0' bgs)
10		2		18 43 50	>50	0.5	4.9			Grades with concrete, tile fragments, metal, loose, wet, hydrocarbon odor.	<ul style="list-style-type: none"> Hydrated bentonite seal (7.0' - 14.0' bgs)
15										Bottom of boring, hydropunch driven to 14' bgs.	



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Remarks:
 Hydropunch location HP-5 completed as a soil gas sampling location.

Saturated Zones		
Date / Time	Elevation	Depth

AKA

BH-06

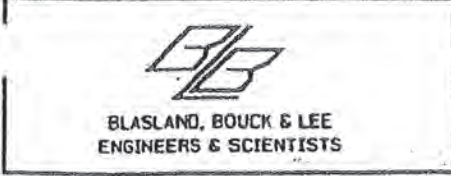
Date Start/Finish: 10/16/95 / 10/16/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

Borehole Depth: 6 ft.

 Geologist: David W. Lay

Well No. **BH-6**
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
5											



Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: 1-in.

AKA **BH-07**

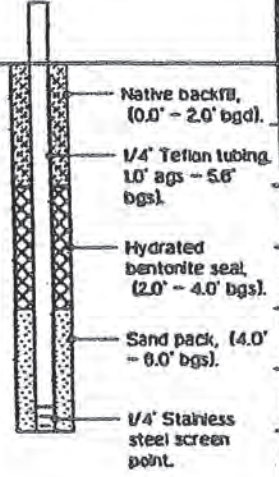
Well No. **BH-7**

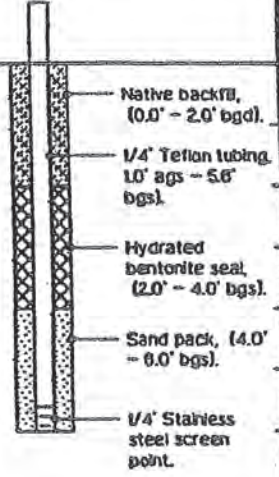
Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

Borehole Depth: 6 ft.

Geologist: David W. Lay

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (%)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
0											
6											



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 ENGINEERS & SCIENTISTS

Remarks:

Saturated Zones

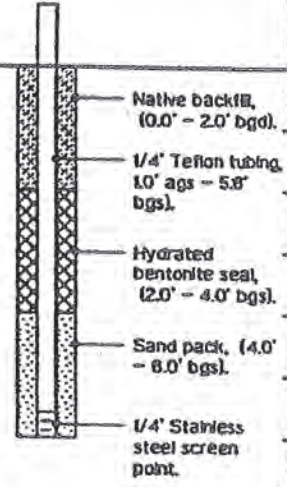
Date / Time	Elevation	Depth

AKA

BH-08

Date Start/Finish: 10/19/95 / 10/19/95 Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Drilling Method: Solid Stem Auger Bit Size: 4-in. Auger Size: 4-in. Rig Type: Mobile 861 Spoon Size: 1-in.	Borehole Depth: 6 ft. Geologist: David W. Lay	Well No. BH-8 Client: Nevander Asset Management, Inc. Location: Seattle, Washington
--	--	--

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
5											



Remarks:


Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

AKA **BH-09**
 Borehole Depth: 23 ft.
 Geologist: David W. Lay

Well No. **BH-9**
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/8 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1		20 34 34	>50	0.6	1.4			SILT and SAND: Green/grey, fine to medium, little coarse sand and fine gravel, loose, moist (FILL).	Native backfill, (0.0' - 2.0' bgs). Hydrated bentonite seal, (2.0' - 4.0' bgs). 1/4" Teflon tubing, (4.0' - 5.6' bgs). 1/4" Stainless steel screen point. Sand pack, (4.0' - 7.0' bgs).
10		2		4 7 10	17	0.4	4.4			Grades with some glass and other refuse, (FILL).	Hydrated bentonite seal, (7.0' - 23.0')
		3		4 2 2	4	1.5	1.4			CLAY: Black/grey, some organic matter, soft, wet.	
5										Bottom of boring, hydromunch driven to 23' bgs.	



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Remarks:
 Hydromunch location HP-6 completed as a soil gas sampling location.

Saturated Zones		
Date / Time	Elevation	Depth

Client:
Seattle, Washington

Well No. BH-9
Total Depth = 23 ft.

Site:
Nevander Asset Management, Inc.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
20											 <p>Hydrated bentonite seal (7.0' - 23.0')</p>
25											
30											
35											



BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

Borehole Depth: 6 ft.

Geologist: David W. Lay

Well No. **BH-11**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In/Type	Blows/6 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	



Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile 861
 Spoon Size: -1-in.

Borehole Depth: 6 ft.

 Geologist: David W. Lay

Well No. **BH-12**
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int./Type	Blows/6 In.	N	Recovery (ft.)	PTD (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
5											



Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

Borehole Depth: 6 ft.


Geologist: David W. Lay

Well No: **BH-13**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
											GROUND SURFACE	
5											Soil samples not collected, vapor probe advanced with a solid stem auger.	<ul style="list-style-type: none"> Native backfill, (0.0' - 2.0' bgs). 1/4" Teflon tubing, 1.0' ags - 5.6' bgs. Hydrated bentonite seal, (2.0' - 4.0' bgs). Sand pack, (4.0' - 6.0' bgs). 1/4" Stainless steel screen point.
10												
5												



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 ENGINEERS & SCIENTISTS

Remarks:


Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

Borehole Depth: 19 ft.
 Geologist: David W. Lay

Well No. **BH-14**
 Client: Nevander Asset Management, Inc.
 Location: Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int./Type	Blows/8 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1		14 10 8	18	1.0	1.4			SILT and SAND: Black/green, fine, some glass, brick, gravel, loose, moist (FILL).	Native backfill, (0.0' - 2.0' bgs). Hydrated bentonite seal, (2.0' - 4.0' bgs). 1/4" Teflon tubing, (1.0' - 5.0' bgs). 1/4" Stainless steel screen point. Sand pack, (4.0' to 7.0' bgs).
10		2		4 4 2	6	1.0	79.9			SILT: Green, stiff, moist to wet, strong hydrocarbon odor.	Hydrated bentonite seal, (7.0' to 10.0' bgs).
15										SILT and SAND: Dark brown, loose, wet, slight hydrocarbon odor.	



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Remarks:
 Hydropunch location HP-1 completed as a soil gas sampling location.

Saturated Zones		
Date / Time	Elevation	Depth

Client:
Seattle, Washington

Well No. BH-14
Total Depth = 10 ft.

Site:
Nevander Asset Management, Inc.

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
		3		1 1 1	2	1.5	4.4			<p>SILT and SAND: Dark brown, loose, wet, slight hydrocarbon odor.</p> <p>Bottom of boring, hydropunch driven to 10' bgs.</p>	 Hydrated Bentonite seal (7.0' to 10.0' bgs).
20											
25											
30											
35											



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Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

Borehole Depth: 6 ft.

Geologist: David W. Lay

Well No. **BH-15**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PTD (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
5											



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

Borehole Depth: 14 ft.

Geologist: David W. Lay

Well No. **BH-16**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 in.	N	Recovery (ft)	PTD (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1		20 45 20	>50	0.5	--			SILT: Black/brown, some fine to coarse sand, nails, glass, refuse, loose, moist, no odor (FILL).	<ul style="list-style-type: none"> Native backfill, (0.0' - 2.0' bgs). Hydrated bentonite seal (2.0' - 4.0' bgs). 1/4" Teflon tubing, (1.0' ags - 5.0' bgs). 1/4" Stainless steel screen point. Sand pack, (4.0' - 7.0' bgs).
10		2		2 2 2	4	1.5	37.3			3-inch layer of black oily tar, petroleum hydrocarbon odor. SILT: Green/grey, some fine sand and organic matter, loose, wet (NATIVE). Bottom of boring, hydropunch driven to 14' bgs.	<ul style="list-style-type: none"> Hydrated bentonite seal, (7.0' - 14.0' bgs).



Remarks:

Hydropunch location HP-2 completed as a soil gas sampling location.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

Borehole Depth: 6 ft.

Geologist: David W. Lay

Well No. **BH-17**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	P10 (ppm)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
											GROUND SURFACE	
5											Soil samples not collected, vapor probe advanced with a solid stem auger.	



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

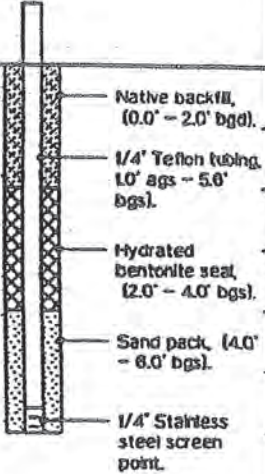
Borehole Depth: 6 ft.


Geologist: David W. Lay

Well No. **BH-18**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
15											



**BLASLAND, BOUCK & LEE
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Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/17/95 / 10/17/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

Borehole Depth: 14 ft.

Geologist: David W. Lay

Well No. **BH-19**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
										CLAY: Light grey, soft, wet.	Native backfill, (0.0' - 2.0' bgs).
										SAND and GRAVEL: Black, fine to coarse, loose, moist (FILL).	Hydrated bentonite seal, (2.0' - 4.0' bgs).
5		1		50	>50	0.2	--			CONCRETE: Grey, loose, moist (FILL).	1/4" Teflon tubing, (1.0' ags - 5.0' bgs).
		2		50	>50	0.3	--				Stainless steel screen point.
		3		7 7 6	13	0.2	--			SILT and SAND: Dark brown, little clay, wood fibers, loose, moist, creosote odor (FILL).	Sand pack, (4.0' - 7.0' bgs).
10		4		4 4 5	9	1.5	8				Hydrated bentonite seal, (7.0' - 14.0' bgs).
										Bottom of boring, hydropunch driven to 14' bgs.	



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Remarks:

Hydropunch location HP-3 completed as a soil gas sampling location.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size : 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

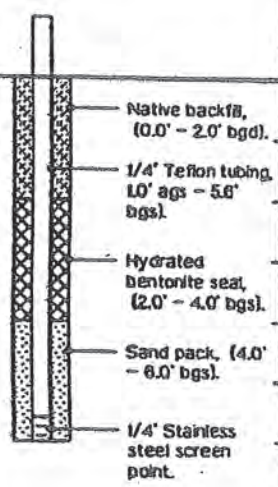
Borehole Depth: 6 ft.


Geologist: David W. Lay

Well No. **BH-20**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
5											



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Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

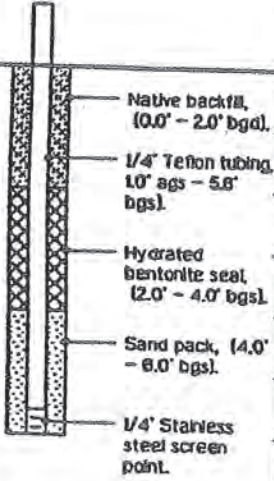
Borehole Depth: 6' ft.

Geologist: David W. Lay

Well No. **BH-21**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington.

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
5											



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

Borehole Depth: 6 ft.

Geologist: David W. Lay

Well No. **BH-22**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
											GROUND SURFACE	
											Soil samples not collected, vapor probe advanced with a stem auger.	



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size: 4-in.
 Rig Type: Mobile B81
 Spoon Size: -1-in.

Borehole Depth: 6 ft.

Geologist: David W. Lay

Well No. **BH-23**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In/Type	Blows/8 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
15											



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/18/95 / 10/18/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Solid Stem Auger
 Bit Size: 4-in. Auger Size : 4-in.
 Rig Type: Mobile B61
 Spoon Size: -1-in.

Borehole Depth: 6 ft.

Geologist: David W. Lay

Well No. **BH-24**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
0											
5											



Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95 Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Drilling Method: Solid Stem Auger Bit Size: 4-in. Auger Size: 4-in. Rig Type: Mobile B61 Spoon Size: -1-in.	Borehole Depth: 6 ft. Geologist: David W. Lay	Well No. BH-25 Client: Nevander Asset Management, Inc. Location: Seattle, Washington
---	--	---

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	
10											
5											

 BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS	Remarks:	Saturated Zones		
		Date / Time	Elevation	Depth

Date Start/Finish: 10/17/95 / 10/17/95
 Drilling Company: Tacoma Drilling Company
 Driller's Name: Butch Dietsche
 Drilling Method: Hollow Stem Auger
 Bit Size: 8.25-in. Auger Size: 8.25-in.
 Rig Type: Mobile B61
 Spoon Size: 2-in.

Borehole Depth: 14 ft.

Geologist: David W. Lay

Well No. **BH-26**

Client:
 Nevander Asset Management, Inc.

Location:
 Seattle, Washington

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
										ASPHALT	
5		1		18 15 9	>50	1.0	4.9			SAND: Black, fine to coarse, some silt, copper wire, concrete, asbestos, refuse, loose, moist (FILL).	Native backfill, (0.0' - 2.0' bgs).
											Hydrated bentonite seal, (2.0' - 4.0' bgs).
											1/4" Teflon tubing, (1.0' ags - 5.0' bgs).
											1/4" Stainless steel screen point.
											Sand pack, (4.0' - 7.0' bgs).
10		2		7 3 4	7	1.0	4.9				Hydrated bentonite seal, (7.0' - 14.0' bgs).
										Bottom of boring, hydropunch driven to 14' bgs.	



BLASLAND, BOUCK & LEE
 ENGINEERS & SCIENTISTS

Remarks:


hydropunch location HP-4 completed as a soil gas sampling location.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 10/19/95 / 10/19/95 Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Drilling Method: Solid Stem Auger Bit Size: 4-in. Auger Size: 4-in. Rig Type: Mobile B61 Spoon Size: 1-in.	Borehole Depth: 6 ft. Geologist: David W. Lay	Well No. BH-27 Client: Nevander Asset Management, Inc. Location: Seattle, Washington
--	--	---

DEPTH	ELEVATION	Sample Run Number	Sample/In./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	
5										Soil samples not collected, vapor probe advanced with a solid stem auger.	



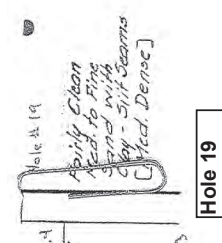
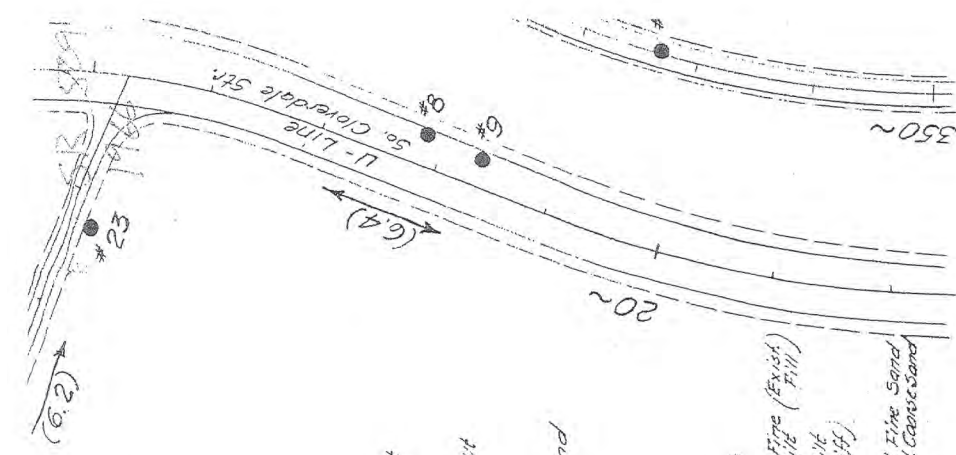
BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

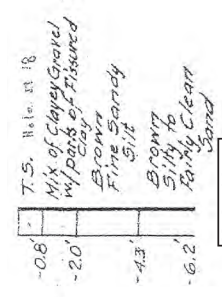
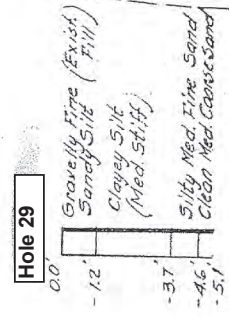
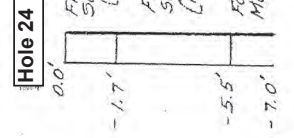
Saturated Zones		
Date / Time	Elevation	Depth

Historical 5th Avenue South and South Sullivan Street Borings/Wells

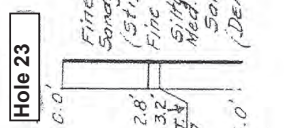
From DOT
~~ST-678~~
 ST-678



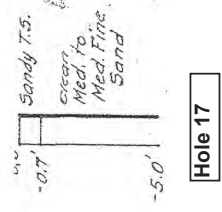
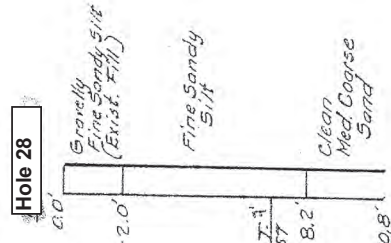
L-Line



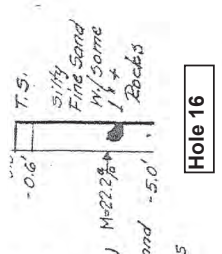
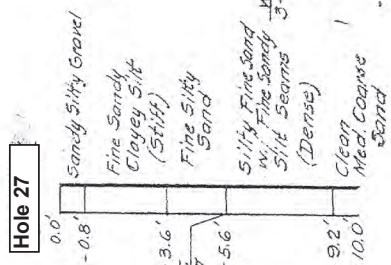
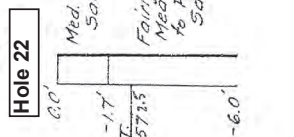
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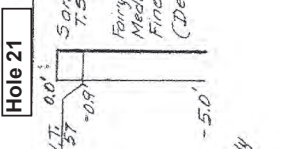
X-Line



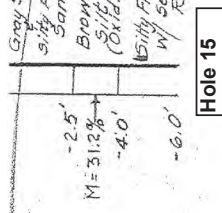
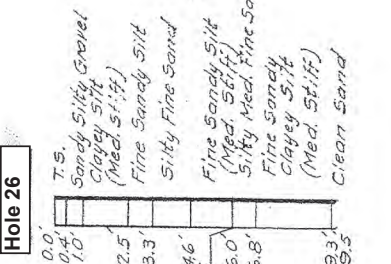
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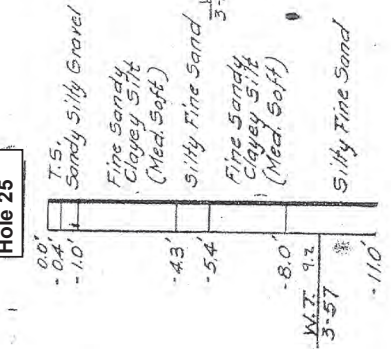
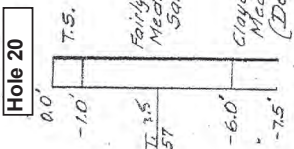
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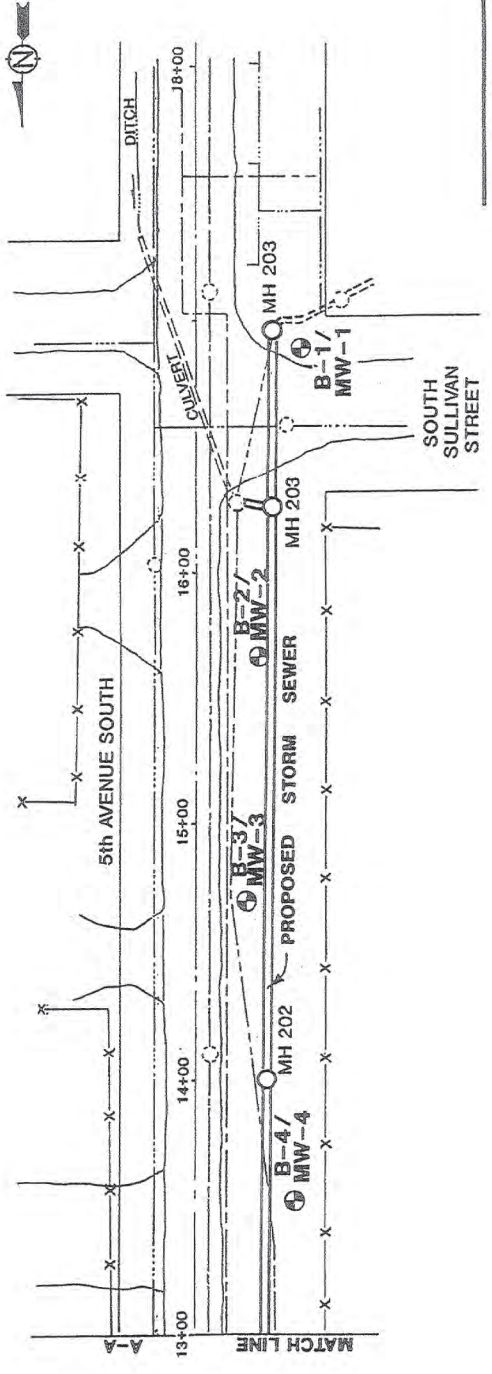
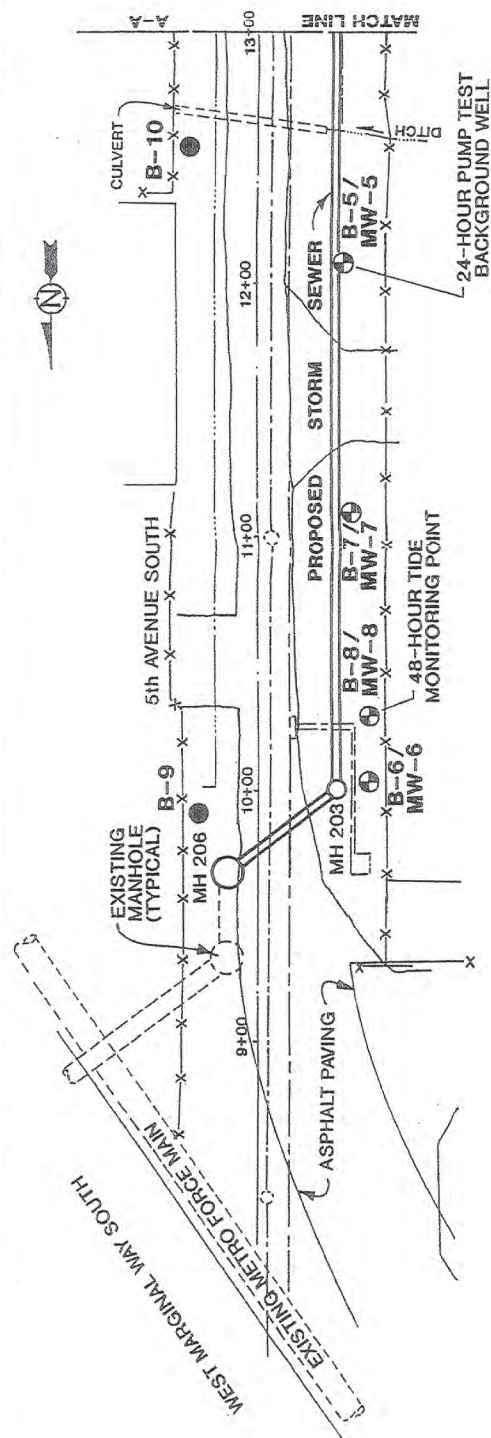


AR-Line

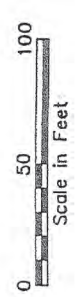


L-Line





- LEGEND**
- B-8/
MW-8
 - INDICATES BORING/MONITORING WELL NUMBER AND APPROXIMATE LOCATION
 - INDICATES EXISTING PSS LINE
 - INDICATES EXISTING WATER LINE
 - INDICATES EXISTING GAS LINE
 - INDICATES EXISTING IRR. LINE
 - EXISTING FENCE
 - INDICATES EXISTING LINE TO BE REMOVED
 - B-13
 - BORING NUMBER AND LOCATION



**SOUTH PARK DETENTION PROJECT
SEATTLE, WASHINGTON
SITE & EXPLORATION PLAN
5TH AVENUE SOUTH
FIGURE 2**



RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
Geotechnical & Environmental Consultants
1400 140th Avenue N.E.
Bellevue, Washington 98005

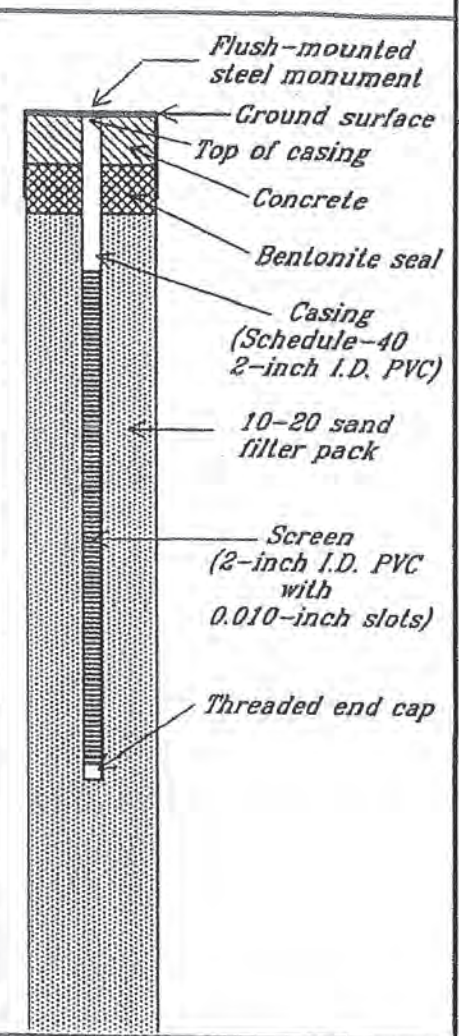
W.O. W-7490
BY WB
DATE SEPT 1991
SCALE 1"=50'

BASED ON A SITE PLAN SUPPLIED BY THE SEATTLE ENGINEERING DEPARTMENT.

Elevation reference: Well completed: 25 March 1991
Ground surface elevation: Casing elevation:

DEF (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	QVM READING	GROUND WATER
0	Moist, brown, silty, gravelly, fine to medium SAND (Fill)					
5	Loose, wet, grey, medium, SAND, trace twigs, interbedded with soft moist brown silt	X	S-1A	3		
			S-2	3	0	
			S-3	2	0	
10	Very soft, moist, grey and brown sandy SILT with fine sand stringers, some twigs and wood		S-4	2	3	
20		Bottom of boring at 19.5 feet				
25						
30						

AS-BUILT DESIGN



TESTING

418.1 TOX 8240

418.1 TOX Metals

LEGEND

- I 2-inch O.D. split-spoon sample
- X Sample not recovered
- ▽ ATD Observed groundwater level (ATD = at time of drilling)
- Chemical analysis (EPA method shown)

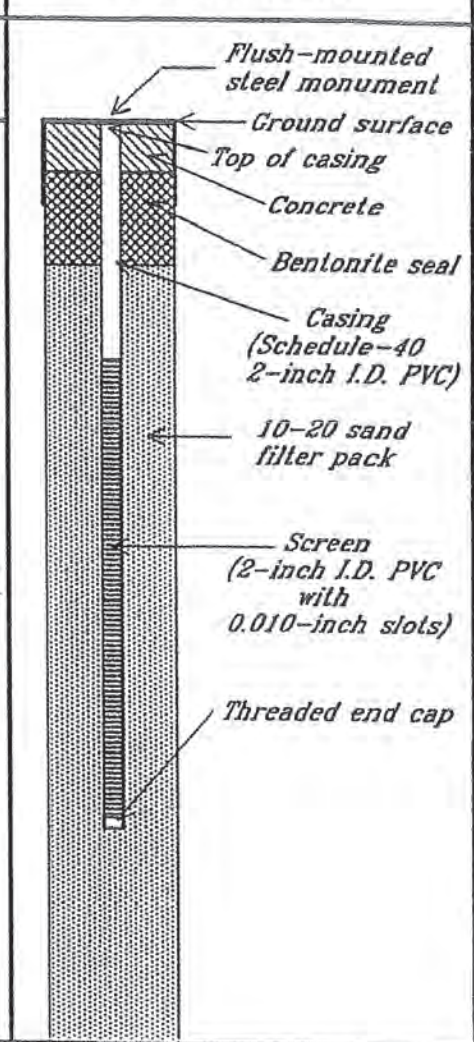


RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
Geotechnical & Environmental Consultants
1400 140th Ave NE
Bellevue, Washington 98005

Elevation reference:
Ground surface elevation: Well completed: 25 March 1991
Casing elevation:

AS-BUILT DESIGN

DEP (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER
0	Loose, moist, brown, silty gravelly, medium SAND (Fill)					
5			S-1	2	0	
10	Loose, wet, dark grey to black medium to fine SAND interbedded with grey silt		S-2	7	0	ATD
15			S-3	3	0	
20	Soft, wet, grey brown SILT, some wood fibers					
25			S-4	1	0	
30	Very soft, wet, grey SILT					
	Bottom of boring at 19.5 feet					



TESTING

418.1 TOX 8240

418.1 TOX Metals

LEGEND

I 2-inch O.D. split-spoon sample

▽ ATD Observed groundwater level (ATD = at time of drilling)

□ Chemical analysis (EPA method shown)



RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
Geotechnical & Environmental Consultants
1400 140th Ave NE
Bellevue, Washington 98005

Drilling started: 25 March 1991

Drilling completed: 25 March 1991

Logged by: WB

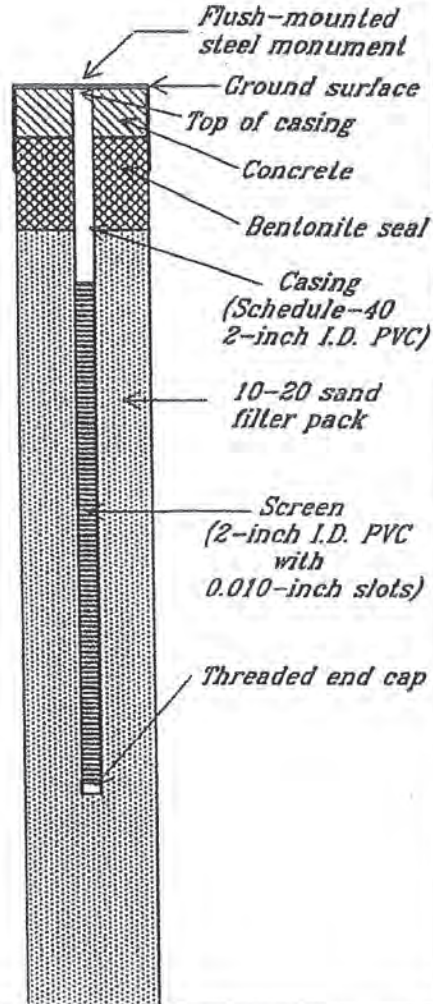
SOUTH PARK
PROJECT **DETENTION PROJECT**

AKA **RMW-03**
W.O. **W-7490** WELL NO. **MW-3**

Elevation reference: Well completed: *25 March 1991*
Ground surface elevation: Casing elevation:

DEP (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER
0	Loose, moist, dark brown, silty fine SAND, some gravel, some roots (topsoil)		S-1	5	0	
5	Brown, moist, silty, fine to medium SAND, some gravel (fil).					
10	Soft, moist to wet, grey SILT		S-2	4	0	ATD
15	Soft, moist to wet, grey brown to brown SILT		S-3	3	0	
20	Loose, wet, dark grey to black medium-fine, SAND, trace twigs		S-4	3	0	
20	Bottom of boring at 19.5 feet					
25						
30						

AS-BUILT DESIGN



TESTING

418.1 TOX 8240

418.1 TOX Metals

LEGEND

I 2-inch O.D. split-spoon sample

▽/ATD Observed groundwater level (ATD = at time of drilling)

□ Chemical analysis (EPA method shown)



RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
Geotechnical & Environmental Consultants
1400 140th Ave NE
Bellevue, Washington 98005

Drilling started: *25 March 1991* Drilling completed: *25 March 1991* Logged by: *WB*

Elevation reference: Well completed: *25 March 1991*
Ground surface elevation: Casing elevation:

AS-BUILT DESIGN

DEPT (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	AS-BUILT DESIGN	TESTING
0	Moist, light brown, silty fine SAND (Fill)						Flush-mounted steel monument	
							Ground surface	
							Top of casing	
							Concrete	
							Bentonite seal	
5	Loose, moist, light brown, fine SAND, some silty fine sand, some roots		S-1	10	0		Casing (Schedule-40 2-inch I.D. PVC)	418.1 TOX 8240
							10-20 sand filler pack	
10			S-2	5	0		Screen (2-inch I.D. PVC with 0.010-inch slots)	
15	Loose, wet, dark grey to black, fine SAND		S-3	9	0			418.1 TOX Metals
20	Trace gravel		S-4	6	0		Threaded end cap	
	Bottom of boring at 20.5 feet							
25								
30								

LEGEND

I 2-inch O.D. split-spoon sample

□ Chemical analysis (EPA method shown)

X Sample not recovered



RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
Geotechnical & Environmental Consultants
1400 140th Ave NE
Bellevue, Washington 98005

Drilling started: *25 March 1991*

Drilling completed: *25 March 1991*

Logged by: *WB*

SOUTH PARK
PROJECT **DETENTION PROJECT**

AKA

RMW-05

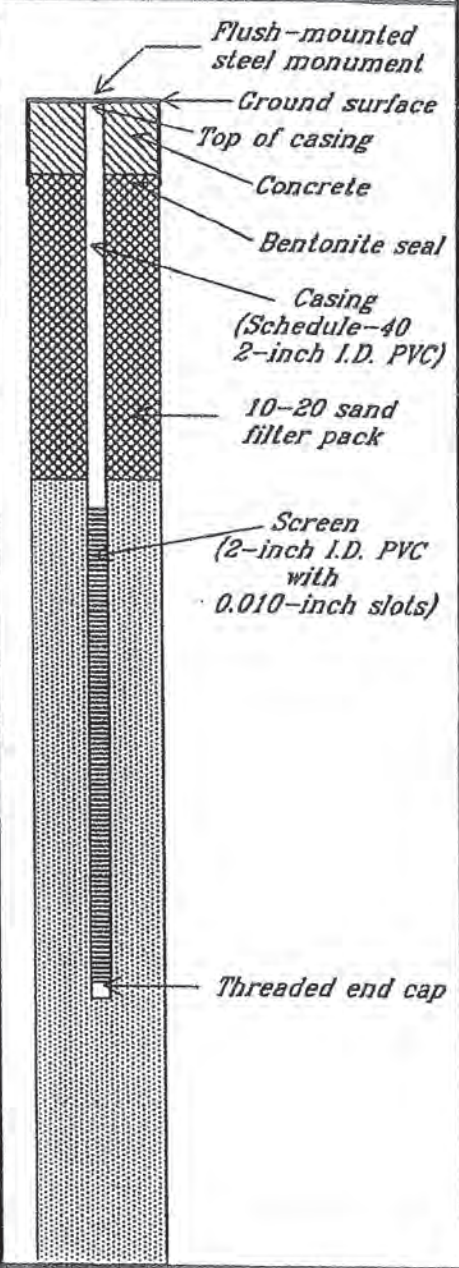
W.O. W-7490

WELL NO. MW-5

Elevation reference: Well completed: 25 March 1991
Ground surface elevation: Casing elevation:

AS-BUILT DESIGN

DEPT. (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	QVM READING	GROUND WATER
0	(Blow counts overstated)					
0-5	Very dense, moist, brown, silty fine SAND, some roots and twigs, trace gravel Debris - paper, cloth		S-1	60 for 8"	0	
5-10	Loose, moist to wet, brown, silty fine SAND, some roots and wood		S-2	4	24	
10-20	Very soft, wet, grey brown sandy SILT, some twigs		S-3	1	0	ATD
20-25	Medium stiff, wet, grey brown, sandy SILT with interbedded dark grey to black, fine to medium sand		S-4	8	0	
25-30	Loose, wet, dark grey to black, fine to medium SAND		S-5	2	0	
25	Bottom of boring at 24.5 feet					



TESTING

418.1 TOX 8240

418.1 TOX Metals

LEGEND

- I 2-inch O.D. split-spoon sample
- ATD Observed groundwater level (ATD = at time of drilling)
- Chemical analysis (EPA method shown)



RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
Geotechnical & Environmental Consultants
1400 140th Ave NE
Bellevue, Washington 98005

Drilling started: 25 March 1991 Drilling completed: 25 March 1991 Logged by: WB

**SOUTH PARK
PROJECT DETENTION PROJECT**

AKA

RMW-06

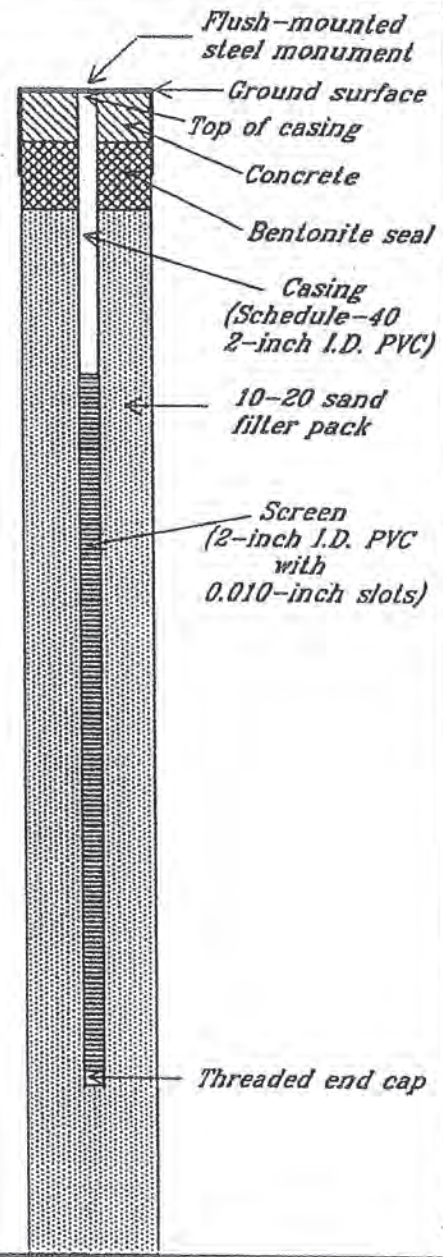
W.O. W-7490

WELL NO. MW-6

Elevation reference: Well completed: 25 March 1991
Ground surface elevation: Casing elevation:

DEPT (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	QVM READING	GROUND WATER
0						
0 - 5	Medium dense, moist, dark brown, silty fine SAND, some gravel, some debris (broken glass, burnt wood)		S-1	12	2	
5 - 10	(blow counts overstated) Some wood debris		S-2	50 for 4"	6	
10 - 20	Medium dense, wet, black, silty fine to medium SAND, trace gravel, trace debris (glass), some petroleum hydrocarbon sheen		S-3	16	60	ATD
20 - 25	Medium stiff, wet, grey brown, sandy SILT, trace twigs		S-4	6	9	
25 - 24.5	Medium dense, wet, black, fine to medium SAND, some petroleum hydrocarbon sheen		S-5	14	82	
24.5	Bottom of boring at 24.5 feet					
30						

AS-BUILT DESIGN



TESTING

418.1
TOX
8240

418.1
TOX
Metals

LEGEND

I 2-inch O.D. split-spoon sample

ATD Observed groundwater level (ATD = at time of drilling)

□ Chemical analysis (EPA method shown)



RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
Geotechnical & Environmental Consultants
1400 140th Ave NE
Bellevue, Washington 98005

Drilling started: 25 March 1991

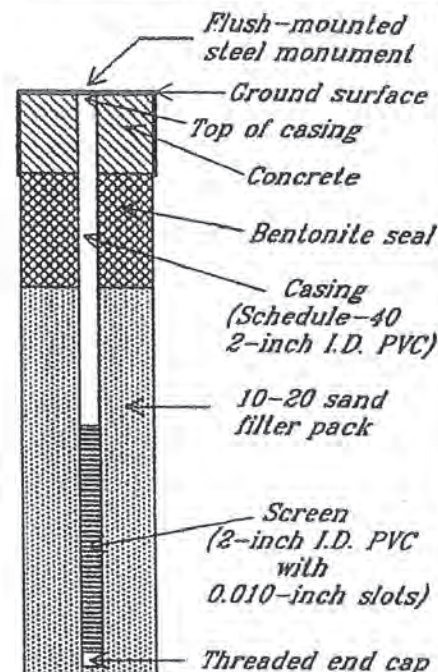
Drilling completed: 25 March 1991

Logged by: WB

Elevation reference: Well completed: 26 March 1991
 Ground surface elevation: Casing elevation:

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OMV READING	GROUND WATER
0						
0-5	(Blow counts overstated) Medium dense, moist, black and brown, silty fine SAND, trace gravel, trace roots, some wood debris		S-1	21	2	
5-10	Dense, moist to wet, black and brown, silty fine SAND, some gravel, interbedded with debris (carpet, glass and wood)		S-2	45	0	
10-16	Medium dense, wet, black to dark grey fine SAND		S-3	16	2	
16-20	No returns - resampled Loose, wet, black to dark grey fine SAND with interbedded grey sandy silt, some twigs	X	S-4	6	0	
20-25	Medium dense		S-5	15	2	
25.5	Bottom of boring at 25.5 feet					
30						



TESTING

418.1 TOX B240

418.1 TOX Metals



LEGEND

I 2-inch O.D. split-spoon sample

ATD Observed groundwater level (ATD = at time of drilling)

X Sample not recovered

□ Chemical analysis (EPA method shown)



RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
 Geotechnical & Environmental Consultants
 1400 140th Ave NE
 Bellevue, Washington 98005

Drilling started: 26 March 1991

Drilling completed: 26 March 1991

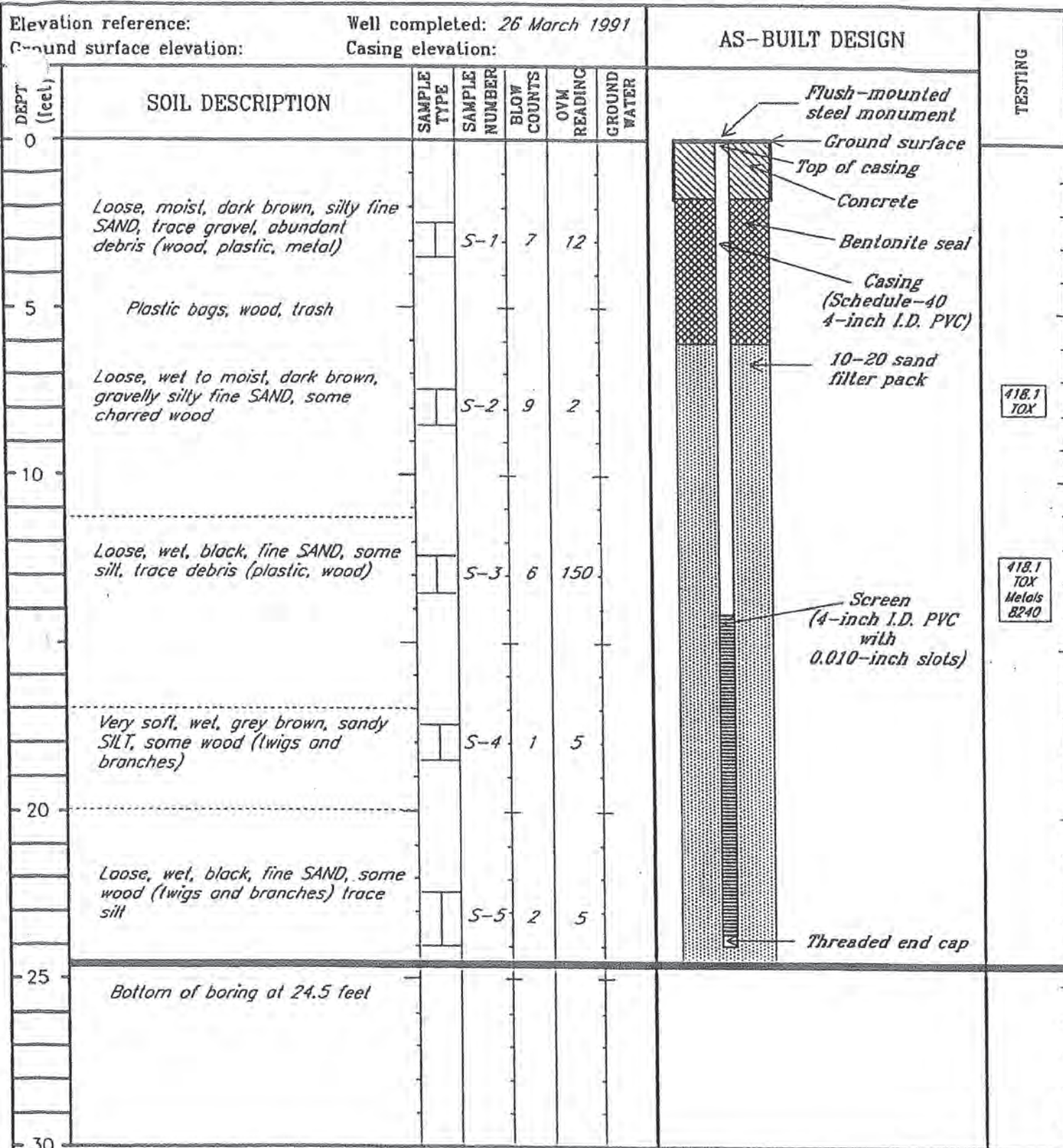
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SOUTH PARK
PROJECT **DETENTION PROJECT**

W.O. **W-7490**

RMW-08

WELL NO. **MW-8**



LEGEND

I 2-inch O.D. split-spoon sample

□ Chemical analysis (EPA method shown)

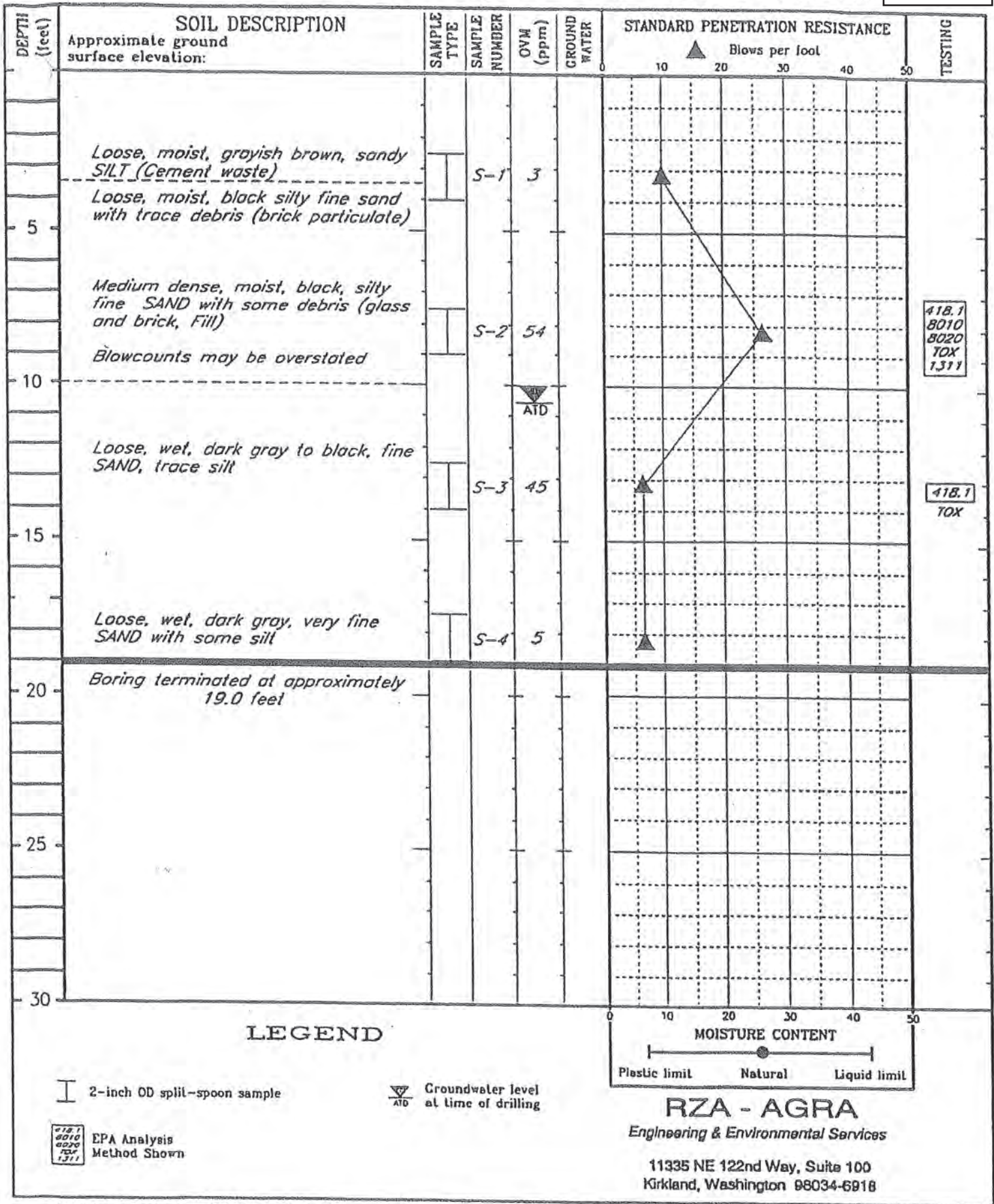


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Geotechnical & Environmental Consultants
1400 140th Ave NE
Bellevue, Washington 98005

Drilling started: 26 March 1991

Drilling completed: 26 March 1991

Logged by: WB



LEGEND

I 2-inch OD split-spoon sample

▽_{ATD} Groundwater level at time of drilling

418.1
8010
8020
TOX
1311
EPA Analysis Method Shown



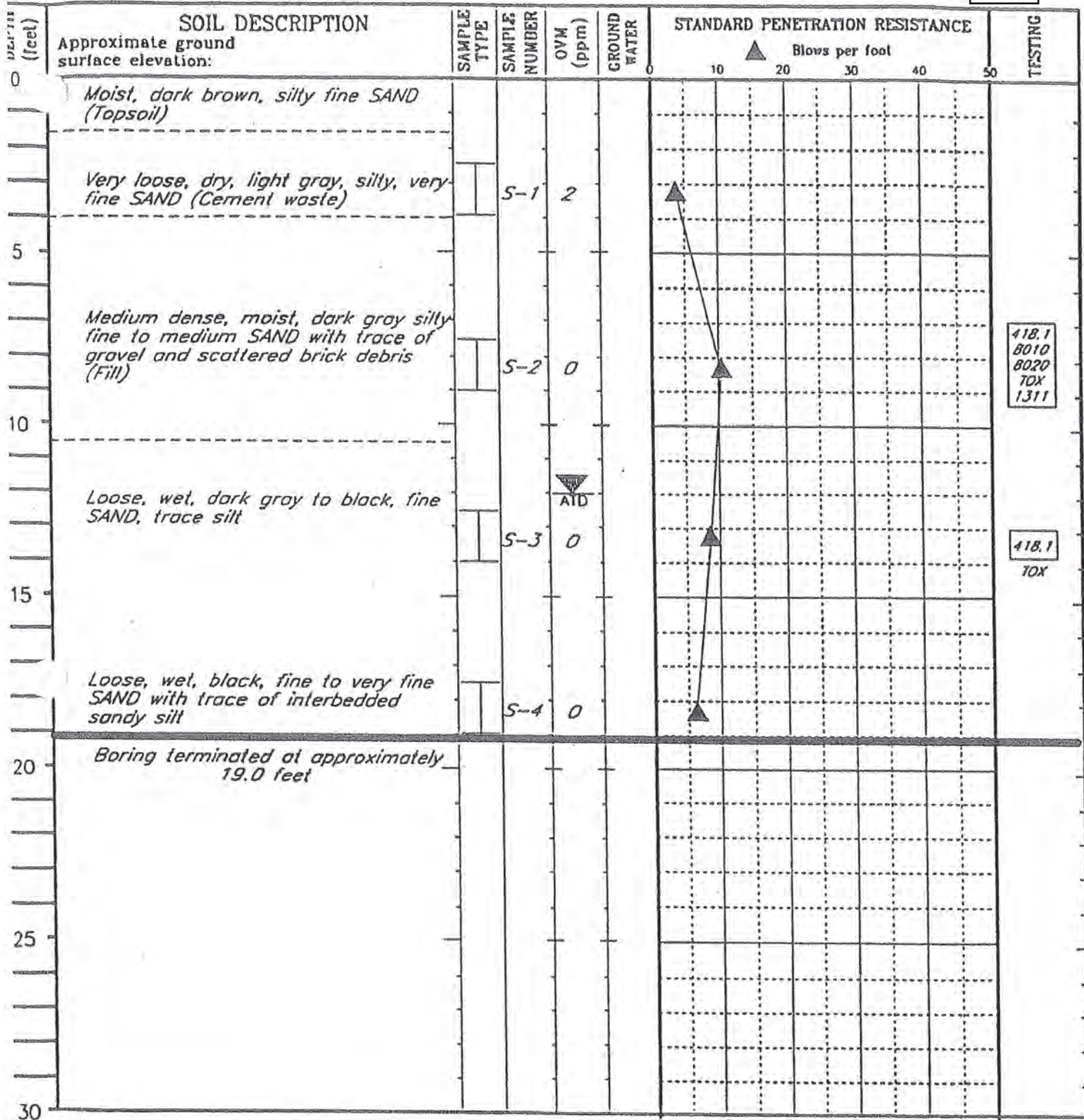
RZA - AGRA
Engineering & Environmental Services

11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: 20 August 1991

Drilling completed: 20 August 1991

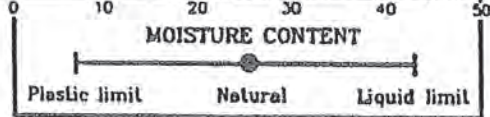
Logged by: GS



LEGEND

I 2-inch OD split-spoon sample
 ▼ ATD Groundwater level at time of drilling

EPA Analysis Method Shown



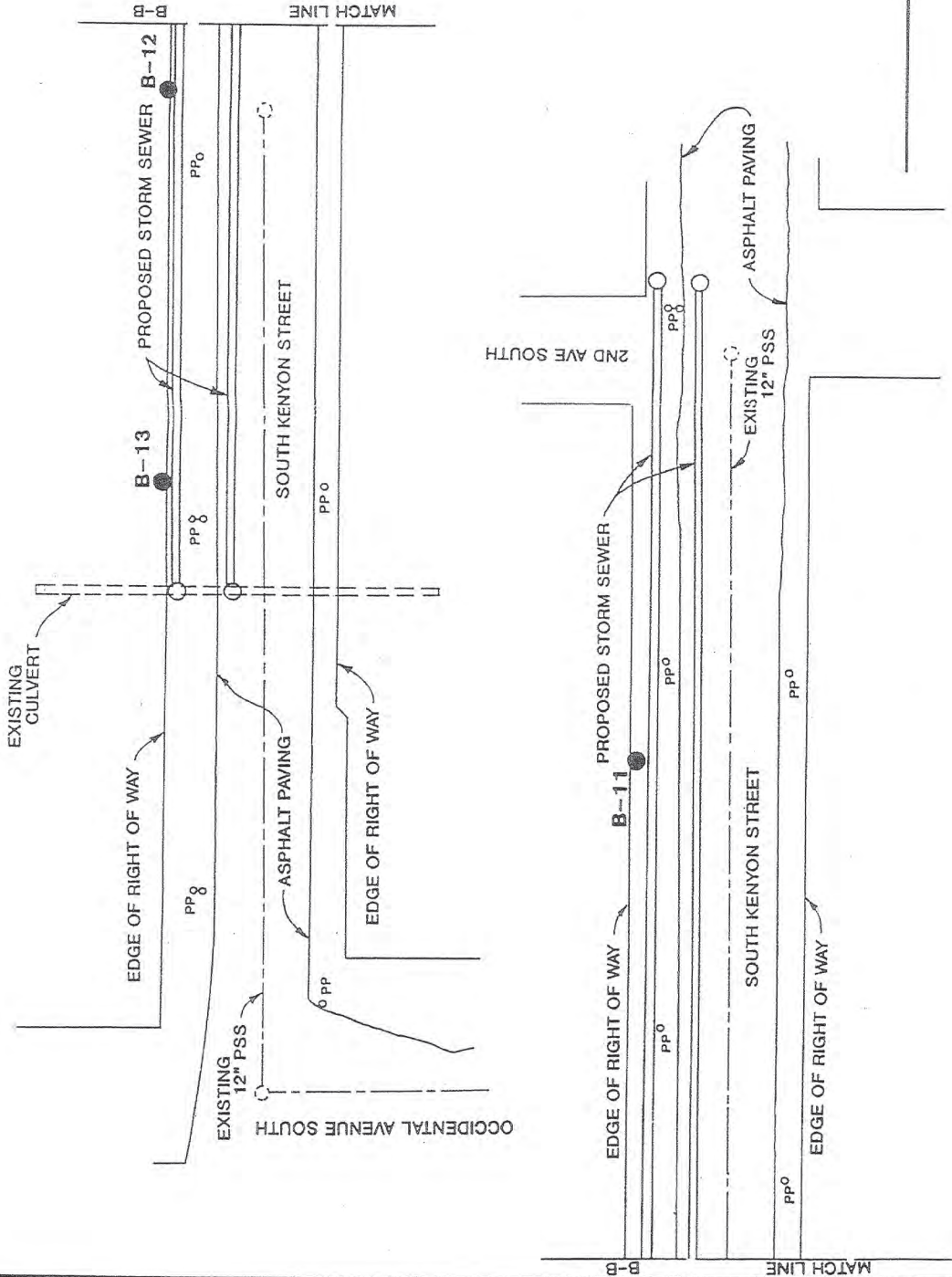
RZA - AGRA
 Engineering & Environmental Services

11335 NE 122nd Way, Suite 100
 Kirkland, Washington 98034-6918

Drilling started: 20 August 1991 Drilling completed: 20 August 1991 Logged by: GS

LEGEND

- PP ○ POWER POLE
- B-13 ● BORING NUMBER AND LOCATION



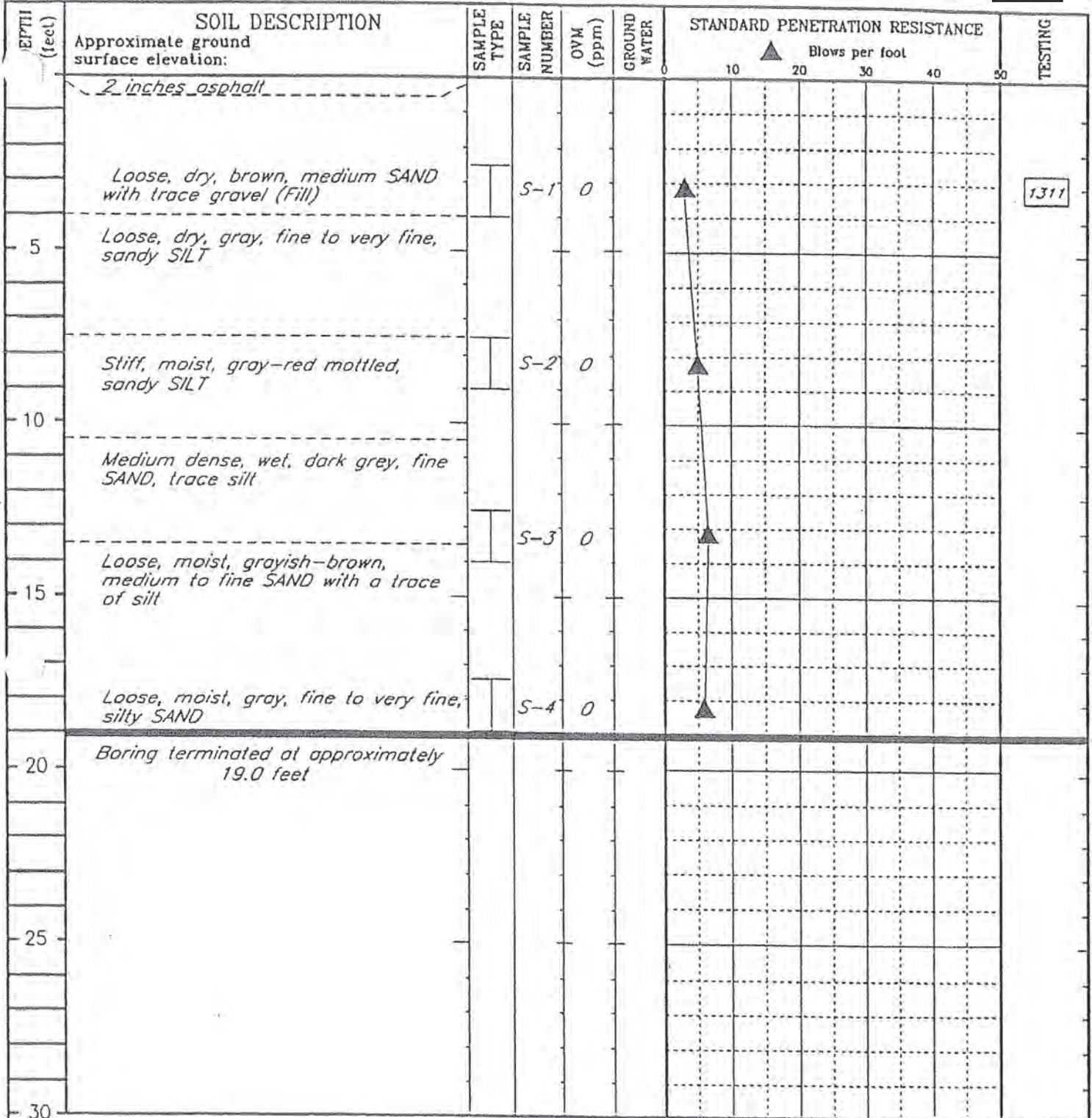
**SOUTH PARK DETENTION PROJECT
SEATTLE, WASHINGTON
SITE AND EXPLORATION PLAN
SOUTH KENYON STREET
FIGURE 3**



RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
Geotechnical & Environmental Consultants
1400 140th Avenue N.E.
Bellevue, Washington 98005

W.O. W-7490-1
BY WB
DATE SEPT 1991
SCALE 1"=40'

BASED ON A SITE PLAN SUPPLIED BY THE SEATTLE ENGINEERING DEPARTMENT.

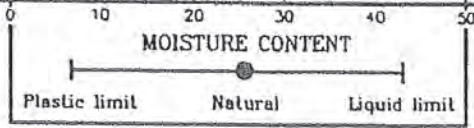


LEGEND

I 2-inch OD split- spoon sample

▽ Groundwater level at time of drilling

1311
EPA Analysis Method Shown



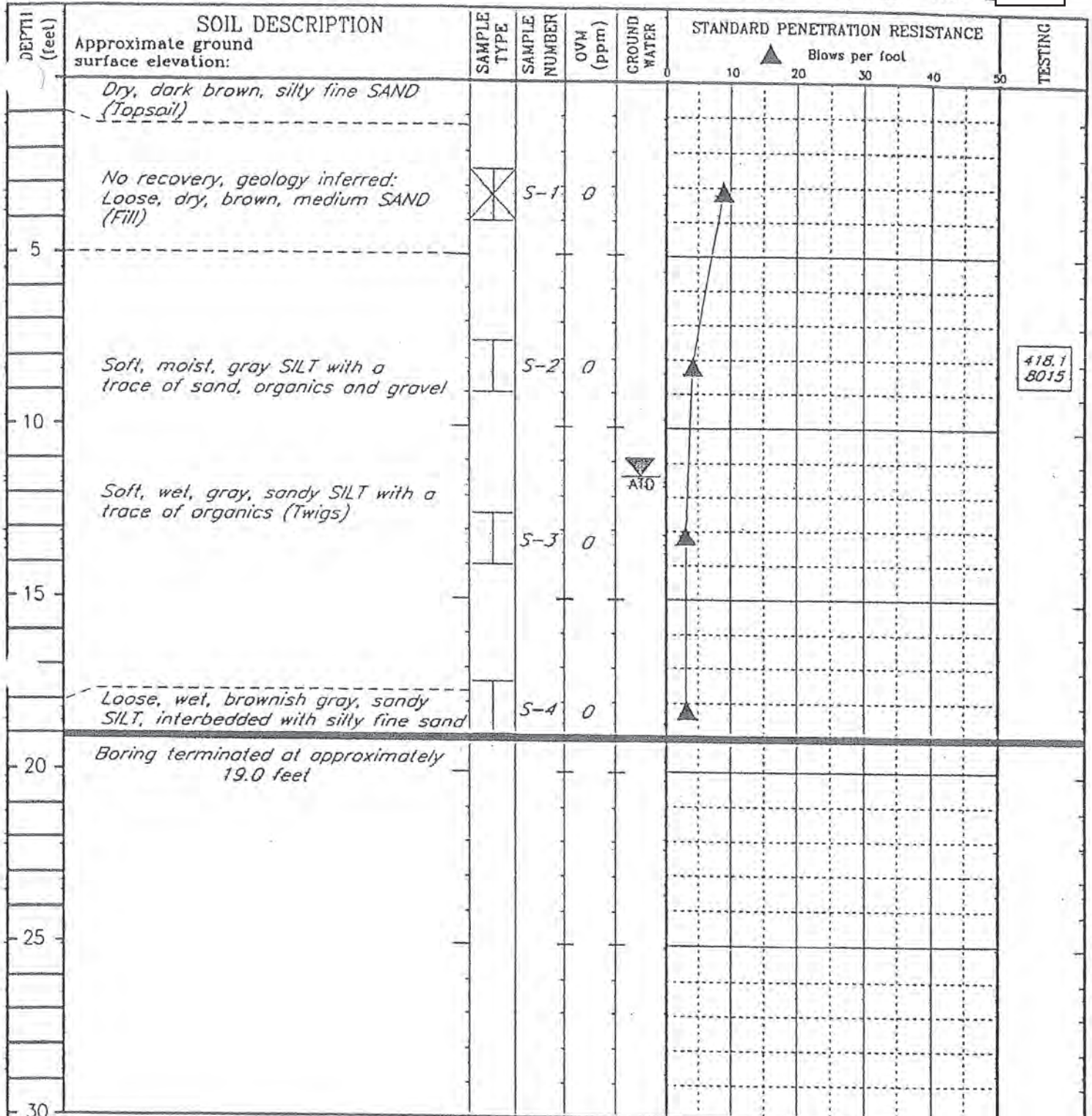
RZA - AGRA
Engineering & Environmental Services

11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: 20 August 1991

Drilling completed: 20 August 1991

Logged by: GS



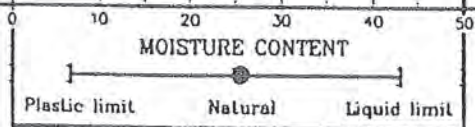
LEGEND

I 2-inch OD split-spoon sample

X Sample not recovered

▽ ATG Groundwater level at time of drilling

418.1
8015
8010
8010
10X
1311 EPA Analysis Method Shown



RZA - AGRA

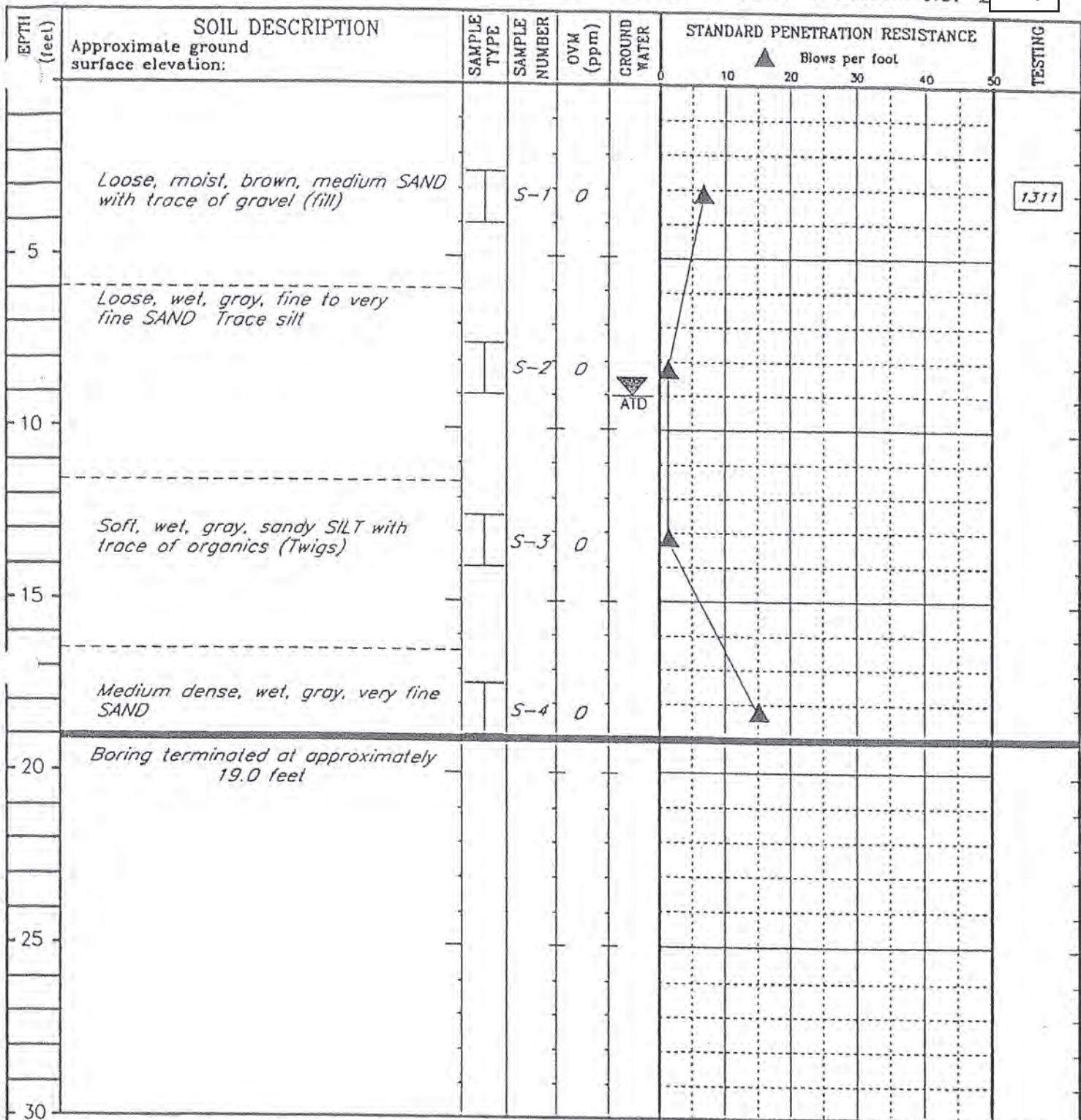
Engineering & Environmental Services

11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: 20 August 1991

Drilling completed: 20 August 1991

Logged by: GS

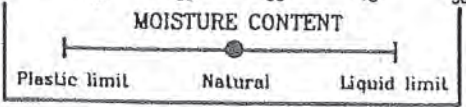


LEGEND

I 2-inch OD split-spoon sample

A10 Groundwater level at time of drilling

1311
8010
0020
1311
EPA Analysis Method Shown



RZA - AGRA
Engineering & Environmental Services

11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: 20 August 1991

Drilling completed: 20 August 1991

Logged by: GS

Historical Reconnaissance Groundwater Samples



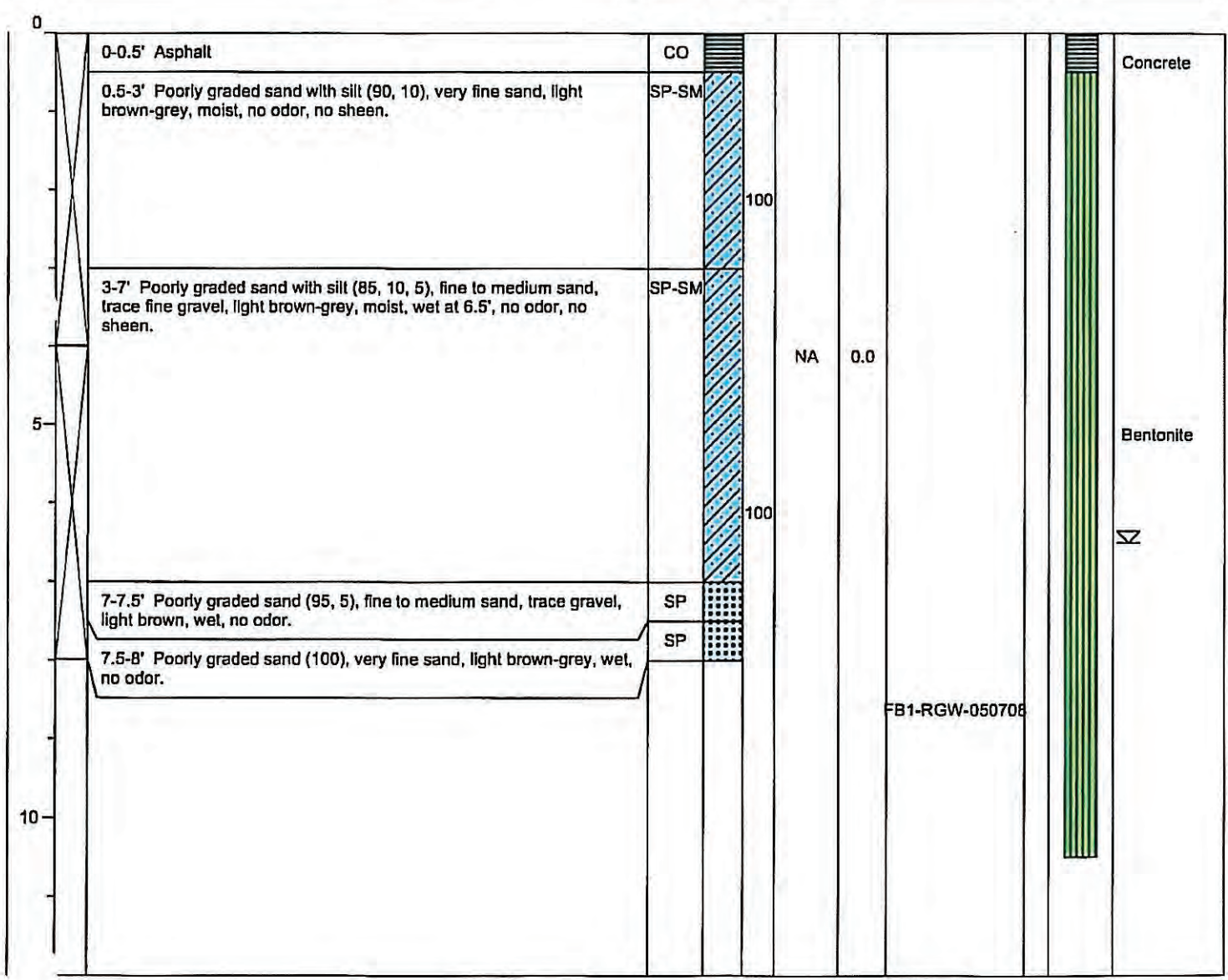
Log of Boring: FB-1

AKA FB-01

Client: S.P.L.D., L.L.C.
Project: South Park Landfill
Location: Seattle, Washington
Farallon PN: 408-003
Logged By: F. Reider

Date/Time Started: 5/7/08 @ 0830 **Sampler Type:** Macro-core
Date/Time Completed: 5/7/08 @ 0915 **Drive Hammer (lbs.):** NA
Equipment: L. A. Geoprobe **Depth of Water ATD (ft bgs):** 6.5
Drilling Company: Cascade Drilling, Inc. **Total Boring Depth (ft bgs):** 10.5
Drilling Foreman: Frank **Total Well Depth (ft bgs):** NA
Drilling Method: Direct Push

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type:	NA	Filter Pack:	NA
Casing Diameter (Inches):	NA	Surface Seal:	Concrete
Screen Slot Size (Inches):	NA	Annular Seal:	NA
Screened Interval (ft bgs):	NA	Ground Surface Elevation (ft):	NA
		Top of Casing Elevation (ft):	NA
		Boring Abandonment:	Bentonite
		Surveyed Location: X:	NA
		Y:	NA



Client: South Park Prop.
ject: South Park Landfill
Location: Seattle, Washington

Farallon PN: 408-003

Logged By: F. Reider

Date/Time Started: 5/7/08 @ 0930
Date/Time Completed: 5/7/08 @ 1010
Equipment: L. A. Geoprobe
Drilling Company: Cascade Drilling, Inc.
Drilling Foreman: Frank
Drilling Method: Direct Push

Sampler Type: Macro-core
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 6
Total Boring Depth (ft bgs): 10.5
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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0	0-0.5'	Asphalt	CO							Concrete
	0.5-4'	Interbedded 6" layers of poorly graded sand with silt (90, 10), very fine to fine sand, light brown-grey, moist, no odor or sheen, and poorly graded sand with gravel (90, 10), fine to coarse sand, light brown-grey, moist, no odor or sheen.	SP-SM			100				
	4-5'	Poorly graded silty sand (80, 20), very fine sand, grey, very moist, no odor.	SP-SM			NA	0.0			
5	5-7'	Poorly graded sand (100), fine to medium sand, light brown-grey, wet at 6'.	SP			100				Bentonite
	7-8'	Poorly graded silty sand (80, 20), very fine sand, brown, wet, no odor.	SP-SM							
10								FB2-RGW-050708		

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Boring Abandonment: Bentonite
Screened Interval (ft bgs): NA	Surveyed Location: X: NA	Y: NA



FARALLON
consulting

975 5th Avenue Northwest
Issaquah, Washington 98027

Log of Boring: **FB-3**

AKA

FB-03

Page 1 of 1

Client: S.P.L.D., L.L.C.
ject: South Park Landfill
Location: Seattle, Washington

Date/Time Started: 5/7/08 @ 1020
Date/Time Completed: 5/7/08 @ 1100
Equipment: L. A. Geoprobe
Drilling Company: Cascade Drilling, Inc.
Drilling Foreman: Frank
Drilling Method: Direct Push

Sampler Type: Macro-core
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 6
Total Boring Depth (ft bgs): 10.5
Total Well Depth (ft bgs): NA

Farallon PN: 408-003

Logged By: F. Reider

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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0		0-2' Poorly graded sand with silt (90, 10), fine to coarse sand, light brown, moist, no odor.	SP-SM		100					Concrete
		2-4' Poorly graded sand with silt (90, 10), fine to coarse sand, light brown, moist, no odor, no sheen, brick piece at 3.5'. Interbedded 3" layers of silty sand (80,20), fine to coarse sand, moist, no odor, no sheen.	SP-SM		100					
		4-8' Poorly graded silty sand (60, 40), very fine sand, brown grading to grey, wet at 6', no odor.	SM		100	NA	0.0			Bentonite
5										
10								FB3-RGW-050708		

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): NA	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): NA		Surveyed Location: X: NA	Y: NA



FARALLON
consulting

975 5th Avenue Northwest
Issaquah, Washington 98027

Log of Boring: [FB-4]

AKA [FB-04]

Client: S.P.L.D., L.L.C.
Project: South Park Landfill
Location: Seattle, Washington

Date/Time Started: 5/7/08 @ 1155
Date/Time Completed: 5/7/08 @ 1230
Equipment: Full Geoprobe
Drilling Company: Cascade Drilling, Inc.
Drilling Foreman: Frank
Drilling Method: Direct Push

Sampler Type: Macro-core
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 5.5
Total Boring Depth (ft bgs): 9.5
Total Well Depth (ft bgs): NA

Farallon PN: 408-003

Logged By: F. Reider

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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0	0-0.5'	Asphalt.	CO							Concrete
	0.5-3.8'	Poorly graded sand (95, 5), fine to medium sand, trace silt, moist, no odor, large gravel piece at 3'.	SP							
	3.8-5'	Poorly graded sand (95, 5), very fine sand, trace silt, grey, moist, no odor, no sheen.	SP			NA	0.0			
5	5-8'	Poorly graded sand (95, 5), very fine sand, trace silt, grey grades to light brown, moist, no odor, no sheen.	SP							Bentonite
								FB4-RGW-050708		
10										

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	Top of Casing Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Boring Abandonment: Bentonite	Surveyed Location: X: NA Y: NA
Screen Slot Size (inches): NA	Annular Seal: NA		
Screened Interval (ft bgs): NA			



FARALLON
consulting

975 5th Avenue Northwest
Issaquah, Washington 98027

Log of Boring: FB-5

AKA **FB-05**

Client: S.P.L.D., L.L.C.
Project: South Park Landfill
Location: Seattle, Washington
Farallon PN: 408-003
Logged By: F. Reider

Date/Time Started: 5/7/08 @ 1245
Date/Time Completed: 5/7/08 @ 1315
Equipment: Full Geoprobe
Drilling Company: Cascade Drilling, Inc.
Drilling Foreman: Frank
Drilling Method: Direct Push
Sampler Type: Macro-core
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 4.5
Total Boring Depth (ft bgs): 12
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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0	0-0.5'	Asphalt.	CO							Concrete
	0.5-4'	Poorly graded sand (95, 5), fine to coarse sand, trace silt, medium brown, moist, no odor, no sheen, silt nodule inclusions.	SP							
	4-6'	Poorly graded sand (90, 5, 5), fine to coarse sand, trace gravel, trace silt, medium brown, wet at 4.5', no odor, no sheen, silt nodule inclusions.	SP			NA	0.0			Bentonite
	6-8'	Poorly graded silty sand (65, 35), very fine sand, grey, wet, no odor.	SM							
10								FB5-RGW-050708		

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Boring Abandonment: Bentonite
Screened Interval (ft bgs): NA	Surveyed Location: X: NA	Surveyed Location: Y: NA



FARALLON
consulting

975 5th Avenue Northwest
Issaquah, Washington 98027

Log of Boring: FB-6

AKA

FB-06

Client: S.P.L.D., L.L.C.

Project: South Park Landfill

Location: Seattle, Washington

Farallon PN: 408-003

Logged By: F. Reider

Date/Time Started: 5/7/08 @ 1405

Date/Time Completed: 5/7/08 @ 1550

Equipment: Full Geoprobe

Drilling Company: Cascade Drilling, Inc.

Drilling Foreman: Frank

Drilling Method: Direct Push

Sampler Type: Macro-core

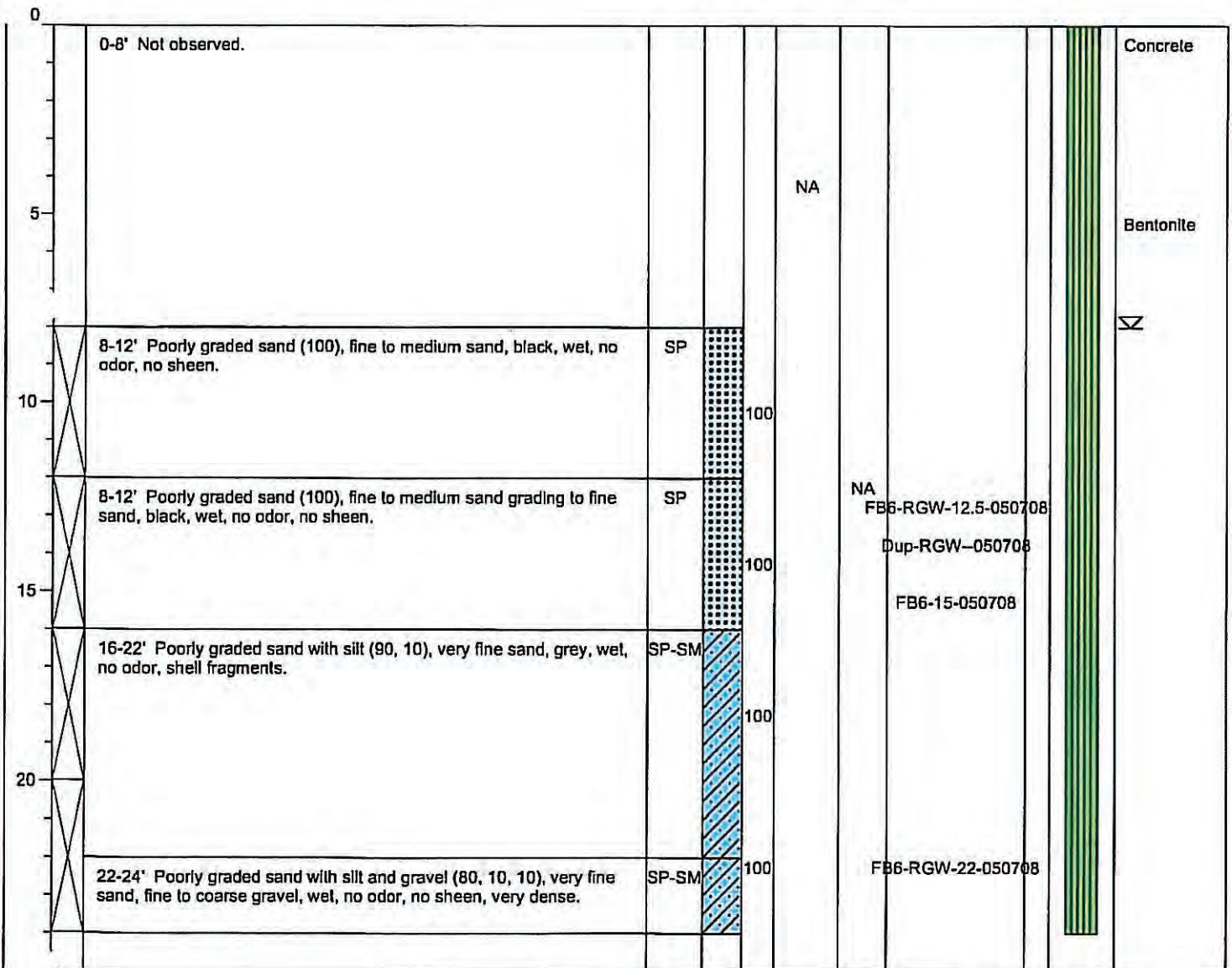
Drive Hammer (lbs.): NA

Depth of Water ATD (ft bgs): 8

Total Boring Depth (ft bgs): 24

Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type:	NA	Filter Pack:	NA
Casing Diameter (inches):	NA	Surface Seal:	NA
Screen Slot Size (inches):	NA	Annular Seal:	NA
Screened Interval (ft bgs):	NA	Ground Surface Elevation (ft):	NA
		Top of Casing Elevation (ft):	NA
		Boring Abandonment:	Bentonite
		Surveyed Location: X:	NA
		Y:	NA

Historical West Ditch Piezometers



Client: South Park Property
Project: South Park Landfill
Location: Seattle, WA

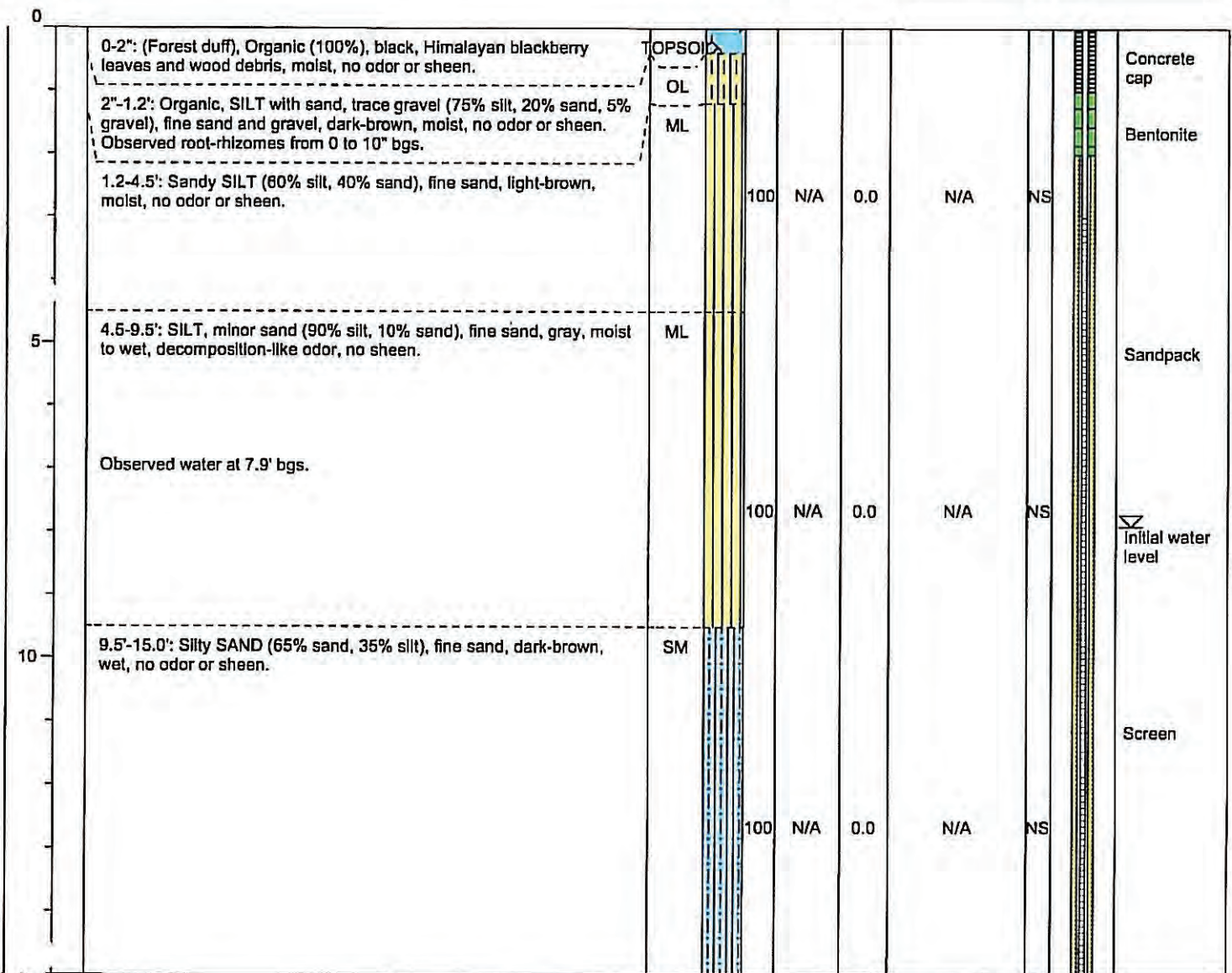
Date/Time Started: 12/15/2008 12:55
Date/Time Completed: 12/15/2008 13:30
Equipment: Geoprobe
Drilling Company: Cascade Drilling
Drilling Foreman: Curtis Askew
Drilling Method: Direct-push

Sampler Type: NA
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 7.9' bgs
Total Boring Depth (ft bgs): 15' bgs
Total Well Depth (ft bgs): 15' bgs

Farallon PN: 408-002

Logged By: Ken Scott

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Riser	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (Inches): 1-Inch	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (Inches): 0.010	Annular Seal: NA	Boring Abandonment: N/A
Screened Interval (ft bgs): 3' to 13' bgs	Surveyed Location: X: NA Y: NA	

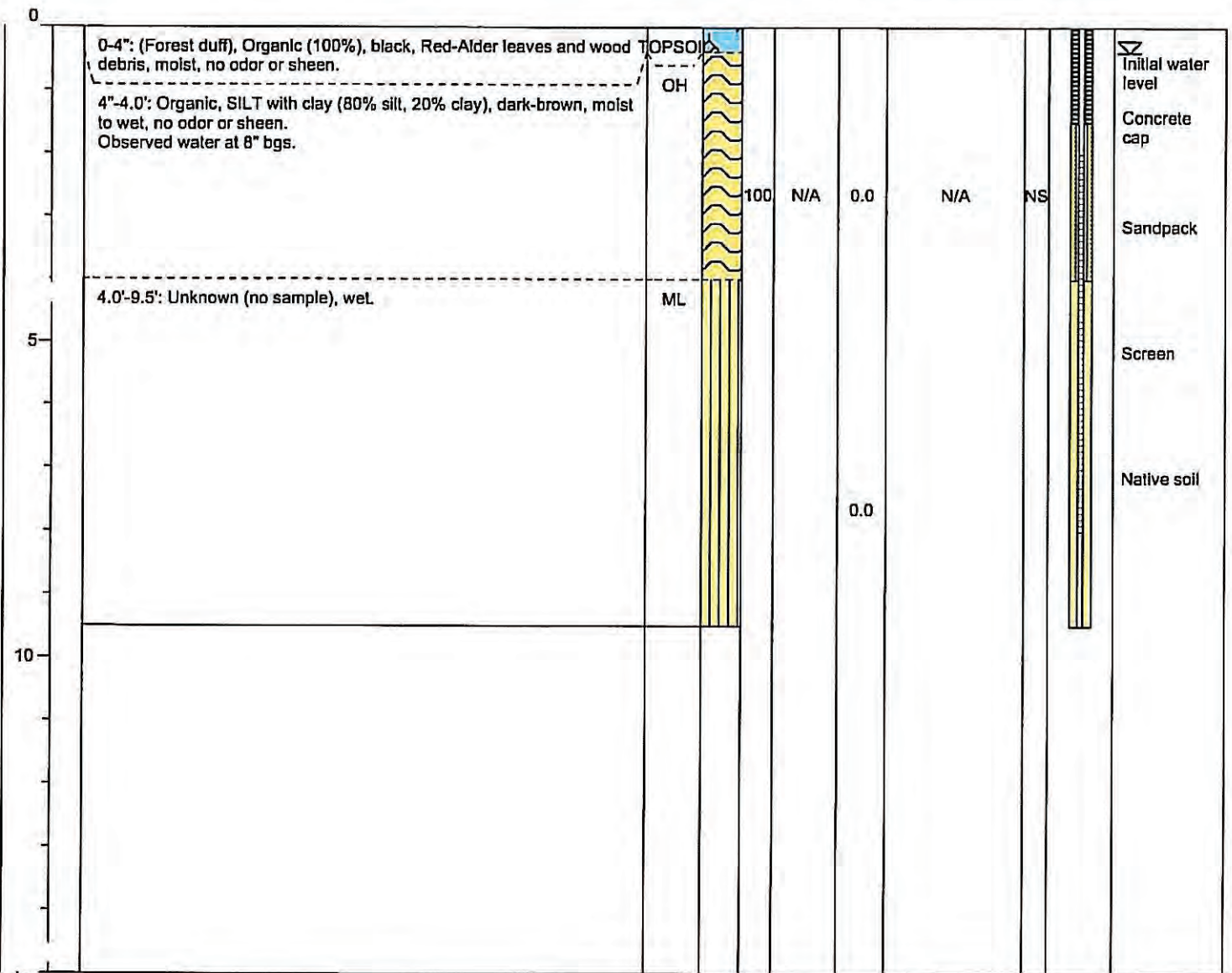


Log of Boring: PZ-2

Client: South Park Property
Project: South Park Landfill
Location: Seattle, WA
Farallon PN: 408-002
Logged By: Ken Scott

Date/Time Started: 12/16/2008 10:35
Date/Time Completed: 12/16/2008 11:25
Equipment: Sledgehammer
Drilling Company: Cascade Drilling
Drilling Foreman: Curtis Askew
Drilling Method: Drive piezometer
Sampler Type: NA
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 8"-Inches bgs
Total Boring Depth (ft bgs): 15' bgs
Total Well Depth (ft bgs): 9.5' bgs

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

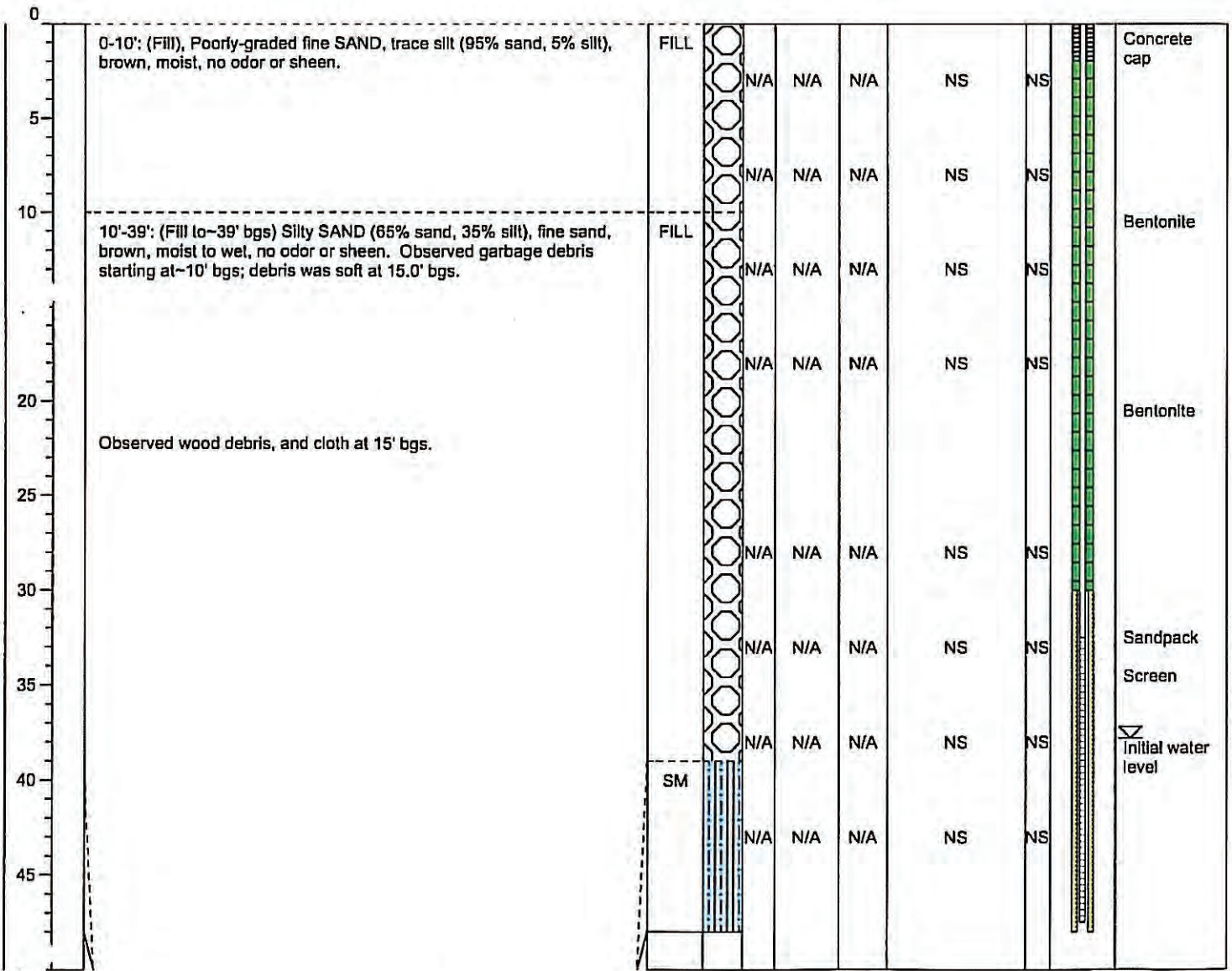
Monument Type: Riser	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (Inches): 1-inch	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (Inches): 0.010	Annular Seal: NA	Boring Abandonment: N/A
Screened Interval (ft bgs): 2' to 8' bgs	Surveyed Location: X: NA	Y: NA



Client: South Park Property
Project: South Park Landfill
Location: Seattle, WA
Farallon PN: 408-002
Logged By: Ken Scott

Date/Time Started: 12/16/2008 12:45 **Sampler Type:** NA
Date/Time Completed: 12/16/2008 14:15 **Drive Hammer (lbs.):** NA
Equipment: Geoprobe **Depth of Water ATD (ft bgs):** 37.8' bgs
Drilling Company: Cascade Drilling **Total Boring Depth (ft bgs):** 48.0' bgs
Drilling Foreman: Curtis Askew **Total Well Depth (ft bgs):** 47.5' bgs
Drilling Method: Direct-push

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm*)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: Riser	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (Inches): 1-inch	Surface Seal: Concrete	Top of Casing Elevation (ft): NA	
Screen Slot Size (Inches): 0.010	Annular Seal: NA	Boring Abandonment: NA	
Screened Interval (ft bgs): 32.5' to 47.5' bgs		Surveyed Location: X: NA Y: NA	



Depth (feet)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Well Construction Details
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50

Observed an orange, plastic vehicle parking lens at 34' bgs..

Observed wood debris and root-rhizomes at 39' bgs (possible bottom of landfill).

39'-48': Silty SAND (65% sand, 35% silt), fine sand, brown, moist to wet, no odor or sheen. Observed garbage debris starting at ~10' bgs; debris was soft at 15.0' bgs.

Well Construction Information			
Monument Type:	Riser	Filter Pack:	NA
Casing Diameter (Inches):	1-inch	Surface Seal:	Concrete
Screen Slot Size (Inches):	0.010	Annular Seal:	NA
Screened Interval (ft bgs):	32.5' to 47.5' bgs	Ground Surface Elevation (ft):	NA
		Top of Casing Elevation (ft):	NA
		Boring Abandonment:	N/A
		Surveyed Location: X:	NA
		Y:	NA

Historical RETS Borings

HONG CONSULTING ENGINEERS, INC.

LOCATION OF BORING NEAR CORNER S. SULLIVAN AND 7TH S.	JOB NO. 8546 CLIENT URS/METRO PROJECT NAME METRO ETS-7	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-2625</div>																														
LOCATION SKETCH 	DRILLING METHOD: HOLLOW STEM AUGER SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES																															
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%;">START</td> <td style="width: 20%;">FINISH</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>WATER LEVEL</td> <td>8.3'</td> <td>11.8'</td> <td>TIME</td> <td>TIME</td> <td></td> </tr> <tr> <td>TIME</td> <td>1557</td> <td>1615</td> <td>1530</td> <td>1630</td> <td></td> </tr> <tr> <td>DATE</td> <td>2-17-86</td> <td>2-17-86</td> <td>DATE</td> <td>DATE</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>2-17-86</td> <td>2-17-86</td> <td></td> </tr> </table>		START	FINISH				WATER LEVEL	8.3'	11.8'	TIME	TIME		TIME	1557	1615	1530	1630		DATE	2-17-86	2-17-86	DATE	DATE					2-17-86	2-17-86	
	START	FINISH																														
WATER LEVEL	8.3'	11.8'	TIME	TIME																												
TIME	1557	1615	1530	1630																												
DATE	2-17-86	2-17-86	DATE	DATE																												
			2-17-86	2-17-86																												
		CASING DEPTH																														

DATUM SURFACE				ELEVATION 13'		SURFACE CONDITION	
SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 8 INCHES	INCHES DRIVEN RECOVERED	DEPTH IN FEET	PIEZOMETER	CLASSIFICATION	DESCRIPTION
				0			GRASS COVER HNU unavailable
							FILL?
							SAND - brown, fine to coarse; some fine to coarse gravel
1	2.5	2	18				SILT - gray; laminated; trace of plant debris 1540
	SPT 4.0	3	6				
2	5.0	1	18	5			SILT - gray, poorly laminated; abundant small bits of wood or metal; rusty stains; probably wood 1545
	SPT 6.5	1	18				
3	7.5	3	18				INTERBEDDED SILT AND SAND - dark gray; fine; plant debris; rusty wood debris? laminated; wet 1555
	SPT 9.0	5	12				
4	10.0	3	18	10			SILT - gray; laminated; top 6 inches 1605
	SPT 11.5	4	18				SAND - dark gray, fine to medium; poorly laminated; trace plant debris and rusty stain; wet
5	12.5	5	18				SAND - dark gray, fine to medium; poorly laminated; volcanic and quartz grains; fresh grass and silt in middle of sample 1615
	SPT 14.0	12	18				
6	15.0	6	18	15			SAND - as above; more grass and silt 1630
	SPT 16.5	11	18				
7	17.5	8	18				SAND - as above; trace of silt laminations 1635
	SPT 19.0	12	18				
END OF HOLE - total depth 13.5 feet measured							
inside auger; hole backfilled with cuttings to surface							

SUBTERRANEAN
 DRILLING CONTRACTOR
 DRILLER CW
 BY SHE
 DATE 2-17-86
 CHECKED BY SH

HONG CONSULTING ENGINEERS, INC.

LOCATION OF BORING EAST END OF S. SULLIVAN ST.	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-2700				
LOCATION SKETCH 	PROJECT NAME METRO ETS-7						
	DRILLING METHOD: HOLLOW STEM AUGER						
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES							
WATER LEVEL		8.0'	9.2'	8.5'	9.8'	START TIME	FINISH TIME
TIME		0926	0934	0942	0957	0830	1010
DATE		2-18-86	2-18-86	2-18-86	2-18-86	DATE	DATE
DATUM SURFACE		ELEVATION 74'		CASING DEPTH		2-18-86	2-18-86

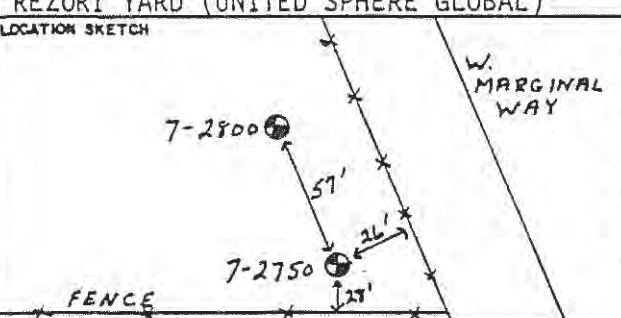
DRILLING CONTRACTOR SUBTERRANEAN
 DRILLER JIM

SHE
 DATE 2-18-86 CHKD BY SH

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION
SURFACE CONDITION: GRAVEL HNu UNAVAILABLE									
NO FILL									
1	2.0	3	18	4	0				
SPT	3.5	5	18	4				SAND - gray fine; some silt; trace of plant debris	0920
2	4.5	2	18	12	5			SANDY SILT - gray, fine; laminated; plant debris; trace clay	0925
SPT	6.0	2	18	12					
3	7.0	6	18	18				INTERBEDDED SILT AND SAND - gray with rusty lenses and speckles; fine; laminated; plant debris	0935
SPT	8.5	7	18	18					
4	9.5	6	18	18	10			INTERBEDDED SAND AND SILTY SAND - dark gray, fine to medium; laminated; trace of plant debris, rusty color; wet	0945
SPT	11.0	10	18	18					
5	12.0	6	18	18				SAND - dark gray with rusty specks, fine to medium, volcanic, quartz and lithic grains	1000
SPT	13.5	7	18	18					
6	14.5	4	18	18	15			SAND - as above	1005
SPT	16.0	8	18	18					
7	17.5	4	18	18				SAND - as above	1010
SPT	19.0	10	18	18					
END OF HOLE: Total depth 15.7 feet measured inside auger; water level readings taken at 0934 and 0942 were taken during one drilling break; hole backfilled to surface with cuttings									

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING REZORI YARD (UNITED SPHERE GLOBAL)				JOB NO. 8546 CLIENT URS/METRO		BORING NO. 7-2750			
LOCATION SKETCH 				PROJECT NAME METRO ETS-7					
				DRILLING METHOD: HOLLOW STEM AUGER					
				SAMPLING METHOD: STANDARD PENETRATION TEST					
				140 LB. SAFETY HAMMER DROPPED 30 INCHES					
		WATER LEVEL		4.6'		4.5'			
		TIME		1607		1612			
		DATE		3-11-86		3-11-86			
DATUM		SURFACE		ELEVATION		14'			
		CASING DEPTH				3-11-86 3-11-86			
SURFACE CONDITION				GRAVEL, SAND, SPARSE GRASS, ROOTS					
				HNU BACKGROUND = 0.4 - 0.6 ("B")					
CLASSIFICATION		DESCRIPTION							
		FILL							
		SAND, GRAVEL, COBBLE, BRICK							
		SILT - gray brown; trace fine sand; trace wood; 1505 probable concrete waste; moist							
		SAND AND SILT - gray brown; interbedded and interlaminated; fine to medium; wood fiber; very moist 1510							
		SILT - gray and brown; trace fine sand at tip; laminated and bedded; organic debris along bedding; very moist 1515							
		SAND - dark gray, fine to medium; quartz and volcanic lithic grains; plant debris; wet 1525							
		SAND - as above; with slit rip-up clasts embedded; plant fiber; wet 1530							
		SAND - dark gray, fine or medium grained; bedded in 6" beds; trace plant fiber; quartz, volcanic lithic, possible shell grains; wet 1540							
		SAND - dark gray, fine to medium 1600							
		END OF HOLE; Total depth 16.7 feet inside auger; bentonite seal at 5 feet; hole backfilled to surface with cuttings							

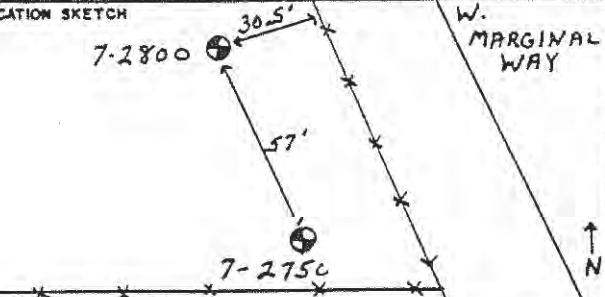
HOKKAIDO
DRILLING CONTRACTOR BOB
DRILLER

BY SHE
DATE 3-11-86
CARD BY SH

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN INCHES RECOVERED	HN ₄	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG
1	2.5 SPT 4.0	7 16	18 14	1.2	-	0		
2	5.0 SPT 6.5	4 5	18 16	B	-	5	1607 SEAL	
3	7.5 SPT 9.0	2 4	18 16	B	-			
4	10.0 SPT 11.5	2 6	18 10	B	-	10		
5	12.5 SPT 14.0	2 3	18 18	B	-			
6	15.0 SPT 16.5	5 3	18 16	B	-	15		
7	17.5 SPT 19.0	7 12	18 13	1.0	0			

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PAGE 1 OF 1

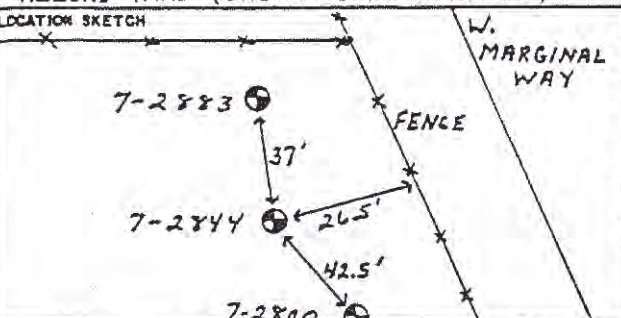
LOCATION OF BORING REZORI YARD (UNITED SPHERE GLOBAL)				JOB NO. 8546 CLIENT URS/METRO		BORING NO. 7-2800			
LOCATION SKETCH 				PROJECT NAME METRO ETS-7					
				DRILLING METHOD: HOLLOW STEM AUGER					
				SAMPLING METHOD: STANDARD PENETRATION TEST					
				140 LB. SAFETY HAMMER DROPPED 30 INCHES					
				WATER LEVEL		START TIME	FINISH TIME		
				6.8' 6.5' 6.5'		1310	1430		
				TIME		DATE	DATE		
				1411 1416 1418		3-11-86	3-11-86		
				DATE		3-11-86	3-11-86		
DATUM SURFACE				ELEVATION 13'					
SAMPLE NO.				SURFACE CONDITION					
SAMPLE TYPE				SAND, GRAVEL, SPARSE GRASS, ROOTS					
SAMPLE DEPTH				HNU BACKGROUND = 0.6 - 0.8 ("B")					
BLOWS PER 6 INCHES				CLASSIFICATION					
INCHES DRIVER RECOVERED				DESCRIPTION					
HN4				FILL					
CH4				SAND - brown, fine to coarse; fine to coarse gravel; cobbles; brick; concrete; wood					
DEPTH IN FEET				SAND AND GRAVEL - dark brown, fine to medium; fine; trace silt in tip; wood; probable cement waste; moist 1320					
PIEZOMETER				NOTE: plastic tile in auger					
GRAPHIC LOG				SAND - dark gray, fine to medium; quartz and lithic volcanic grains; abundant fine rootlets; very moist 1330					
				SAND - as above; no rootlets; trace of plant debris; trace of shell fragments; wet; slight organic odor 1335					
				SAND - dark gray, fine to medium; quartz, lithic volcanic, shell grains 1345					
				SILT - brown; laminated; organic fibers along bedding; slight organic odor					
				SILT - brown; laminated; abundant wood, stems, plant fiber along bedding; very moist 1350					
				SAND - dark gray, fine; little silt at top; laminated; plant fiber and wood along bedding; wet 1355					
				SAND - as above 1405					
				END OF HOLE: Total depth 16.2 feet inside auger; bentonite seal at 5 feet; hole backfilled with cuttings to surface					

DRILLING CONTRACTOR **HOKKAIDO BOB**
 DRILLER **BOB**

BY **SHE** CHKD BY **SH**
 DATE **3-11-86**

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING REZORI YARD (UNITED SPHERE GLOBAL)				JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-2844			
LOCATION SKETCH 				DRILLING METHOD: HOLLOW STEM AUGER					
				SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES					
				WATER LEVEL	4'	4'	START TIME	FINISH TIME	
				TIME	1153	1158	1040	1210	
				DATE	3-11-86	3-11-86	DATE	DATE	
DATUM SURFACE				ELEVATION	12'	CASING DEPTH		3-11-86 3-11-86	
SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	HN ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	
					CH ₄			SURFACE CONDITION MUD, WATER HNu BACKGROUND = 0.8 to 0.6 ("B")	
								CLASSIFICATION DESCRIPTION	
						0		FILL SAND AND GRAVEL - brown, fine to coarse; rounded cobbles	
1	2.5	7	19	18	1.6			SAND AND GRAVEL - gray, fine to medium; fine; wood; trace brick; moist; cement waste 1105	
	4.0	11	11	5	-				
2	5.0	7	11	18	1.0			SAND - dark gray, fine to medium; volcanic lithic and quartz grains; wood; trace shell fragments; wet 1110	
	6.5	11	16	12	-				
3	7.5	5	5	18	1.2			SAND - dark gray, fine; plant fibers; organic odor; wet 1120	
	9.0	3	3	9	-				
4	10.0	3	2	18	B			SILT - gray; laminated; plant fibers aligned with bedding; organic odor 1125	
	11.5	2	2	18	-				
5	12.5	1	1	18	B			SILT - as above 1130	
	14.0	1	2	18	-				
6	15.0	2	1	18	B			SILT - gray; laminated; occasional dark gray organic laminae; plant fibers along bedding; slightly plastic; organic odor 1145	
	16.5	2	2	18	0				
END OF HOLE: Total depth 14.6 feet inside auger; bentonite seal placed at 5 feet; hole backfilled to surface with cuttings									

HOKKAIDO
 DRILLING CONTRACTOR BOB
 DRILLER
 BY SHE
 DATE 3-11-86
 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING RAZORI YARD (UNITED SPHERE GLOBAL)	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-2883
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
DRILLING METHOD: HOLLOW STEM AUGER			
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 inches			
WATER LEVEL		2'	2'
TIME		1010	1015
DATE		3-11-86	3-11-86
START TIME		0830	1030
DATE		3-11-86	3-11-86

DATUM SURFACE		ELEVATION 13'		CASING DEPTH		START TIME		FINISH TIME	
SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	HNu	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION
SURFACE CONDITION: GRAVEL, RUBBLE, SPARSE GRASS HNu BACKGROUND = 0.8 PPM ("B")									
0' FILL SAND - light brown, medium to coarse; brick mortar, concrete rubble									
1	2.5	13	18	1.4	1	WL 1010	[Graphic Log]	SILT	very light tan; little fine sand; little fine to coarse gravel; moist; cement waste
SPT	4.0	15	18	-				0900	
2	5.0	3	18	1.8	5	[Graphic Log]	[Graphic Log]	SILT	as above; wet; plant fibers; wood; gray silty sand at tip, possible contact; wet; cement waste
SPT	6.5	2	11	-				0905	
3	7.5	8	18	1.4	10	[Graphic Log]	[Graphic Log]	SAND	dark gray, fine to medium; trace fine gravel; trace silt; trace plant fiber, shell fragments; volcanic lithic and quartz grains; wet
SPT	9.0	7	14	-				0910	
4	10.0	5	18	1.6	15	[Graphic Log]	[Graphic Log]	SAND	as above; wet
SPT	11.5	8	14	-				0920	
5	12.5	2	18	5	20	[Graphic Log]	[Graphic Log]	SILT	gray; laminated; abundant plant fibers
SPT	14.0	1	18	0				0940	
6	15.0	1	18	1.8	25	[Graphic Log]	[Graphic Log]	SILT	as above; trace shell fragments; slight organic odor
SPT	16.5	1	18	-				0955	
7	17.5	1	18	8	30	[Graphic Log]	[Graphic Log]	SILT	gray with dark gray organic laminations; laminated; plant fibers and shell fragments
SPT	19.0	2	18	0				1005	
END OF HOLE: Total depth 17 feet inside auger, bentonite seal placed at 7 feet; hole backfilled to surface with cuttings									

DRILLING CONTRACTOR HOKKAIDO BOB
 DRILLER

BY SHE
 DATE 3-11-86
 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING MANITOU YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-2950</div>			
LOCATION SKETCH 	PROJECT NAME METRO ETS-7					
	DRILLING METHOD: HOLLOW STEM AUGER					
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES						
WATER LEVEL		8.0'	13.7'	13.7'	START TIME 1045	FINISH TIME 1300
TIME		1140	1228	1245	DATE 2-20-86	DATE 2-20-86
DATE		2-20-86	2-20-86	2-20-86	DATE 2-20-86	DATE 2-20-86

DATUM		SURFACE		ELEVATION		18'		CASING DEPTH				2-20-86		2-20-86	
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION						
									3" CRUSHED ROCK						
									CLASSIFICATION						
									DESCRIPTION						
									FILL						
									SILT - light gray; cement waste						
1	SPT	2.5	6	18					SILT - light gray or brown, iron stain; trace fine gravel; cement waste 1050						
		4.0	19	18											
2	SPT	5.0	4	18					SILT - as above; cement waste						
		6.5	9	18					NOTE: wood debris augered out of hole; probable log.						
3	SPT	7.5	2	18					SILT - as above; cement waste; sampler wet 1145						
		9.0	2	18											
4	SPT	10.0	1	18					SILT - as above; trace fine gravel; trace wood debris; trace of iron staining 1155						
		11.5	3	18											
5	SPT	12.5	5	18					SILT - as above; top 6"						
		14.0	10	18					SAND - dark gray, fine to medium; trace plant debris, rootlets; volcanic, quartz, lithic grains 1205						
6	SPT	15.0	3	18					SAND - as above 1210						
		16.5	3	18											
7	SPT	17.5	2	18					SAND - as above; top 12"						
		19.0	2	18					SILT - gray; laminated; abundant plant debris 1215						
									parallel and transverse bedding; organic odor						
									END OF HOLE - total depth 14.9' inside auger; backfilled to surface with cuttings						

DRILLING CONTRACTOR **HOKKAIDO**
 DRILLER **BD**
 BY **SHE**
 DATE **2-20-86**
 CKD BY **SH**

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING MANITOU YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3000
LOCATION SKETCH	PROJECT NAME METRO ETS-7		
DRILLING METHOD: HOLLOW STEM AUGER			
SAMPLING METHOD: STANDARD PENETRATION TEST			
140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL	10'	13'	START TIME 0845
TIME	0945	1015	FINISH TIME 1030
DATE	2-20-86	2-20-86	DATE 2-20-86

DATUM SURFACE				ELEVATION	CASING DEPTH		START DATE		FINISH DATE			
				18'			2-20-86	2-20-86				
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	CH 4	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION
							0			3 INCH CRUSHED ROCK		
										H _{Nu} UNAVAILABLE		
										FILL		
										SILT - light gray; cement waste		
1	SPT	2.5	6	18	12					SILT - light gray or brown; trace fine gravel; trace wood debris; iron staining; cement waste		0900
2	SPT	5.0	6	18	12		5			SILT - light gray, some iron staining; trace fine gravel		0905
3	SPT	7.5	3	18	18					SILT - as above; very moist		0915
4	SPT	10.0	3	18	18		10			SILT - as above; wet; trace glass		0940
5	SPT	12.5	8	18	18					SAND - dark gray, fine to medium; trace silt; volcanic, quartz and lithic grains; massive; wet		1000
6	SPT	15.0	8	18	18		15			SAND - as above; salty marine smell; trace plant debris		1005
7	SPT	16.5	5	18	18					SAND - as above; top 12"		
										SILT - brown; laminated; abundant plant fiber along bedding; strong marine organic odor		1015
END OF HOLE - total depth 15.3 feet measured inside auger; hole backfilled to surface with cuttings.												

DRILLING CONTRACTOR - HOKKAIDO
 DRILLER - BD
 BY SHE 2-20-86
 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 of 1

LOCATION OF BORING MANITOU YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-3050</div>
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. HAMMER DROPPED 30"			
WATER LEVEL		START TIME	FINISH TIME
TIME		1000	1430
DATE		START DATE	FINISH DATE
CASING DEPTH		2-19-86	2-19-86

DRILLING CONTRACTOR HOKKAIDO DRILLING
 DRILLER BILL

SURFACE				ELEVATION	SURFACE CONDITION	
SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 8 INCHES	INCHES DRIVEN	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG
SAMPLE TYPE			INCHES RECOVERED			
				0		3 INCH CRUSHED ROCK
						H _{Nu} UNAVAILABLE
						CLASSIFICATION DESCRIPTION
						FILL
						SILT - light gray, cement waste
1	2.5	5	18			
SPT	4.0	5	18			SILT - light gray or brown; trace fine gravel cement waste; trace plant debris 1200
2	5.0	2	18	5		
SPT	6.5	3	18			SILT - as above; moist 1220
3	7.5	2	18			
SPT	9.0	3	18			
4	10.0	2	18	10		
SPT	11.5	2	18			SILT - as above; moist 1240
5	12.5	2	18			
SPT	14.0	2	18			SILT - as above
						SAND - dark gray, fine to medium; volcanic, quartz and lithic grains 1400
6	15.5	2	18	15		
SPT	17.0	2	18			SILT - dark gray; massive; blocky structure; abundant plant fiber and debris; organic odor 1415
END OF HOLE - Total depth measured at 17.8 feet inside auger; hole backfilled to surface with cuttings; water added to hole, no water levels taken						

BY SHE DATE 2-19-86 CHECK BY SII

HONG CONSULTING ENGINEERS, INC.

LOCATION OF BORING MANITOU YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-3100</div>
LOCATION SKETCH 	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		11'	11.3'
TIME		1350	1400
DATE		2-18-86	2-18-86
DATUM SURFACE		ELEVATION 18'	
CLOSING DEPTH		START TIME 1320 FINISH TIME 1430 DATE 2-18-86 2-18-86	

SUBTERRANEAN
 DRILLING CONTRACTOR JIM
 DRILLER
 BY SHE
 DATE 2-18-86
 CHKD BY SH

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 8 INCHES	INCHES DRIVEN RECORDED	HNu	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
									CLASSIFICATION	DESCRIPTION
									3 INCH CRUSHED ROCK	
									HNu UNAVAILABLE	
									FILL	
1	SPT	2.0	24	18					SILT - light gray to brown, some rusty stain; some fine gravel; slightly moist; cement waste	1335
2	SPT	4.5	2	18					SILT AND GRAVEL - brown rusty stain; fine; trace of plant stem; cement waste	
		6.0	2	12					SILT - light gray; moist; cement waste	1340
3	SPT	7.0	2	18					SILT - light gray; very moist; massive, homogeneous, very clean; cement waste	1355
4	SPT	9.5	2	18					SILT - as above; wet (sand in bit, contact); cement waste	1405
5	SPT	12.0	20	18					SAND - dark gray, fine to medium; volcanic, quartz and lithic grains	1415
		13.5	21	18						
6	SPT	15.5	1	18					SAND - as above	
		17.0	1	18					SILT - dark gray; well laminated at top; blocky with abundant plant fiber at tip	1425
END OF HOLE: Total depth 14.1 feet measured inside auger; hole backfilled to surface with cuttings										

HONG CONSULTING ENGINEERS, INC.

LOCATION OF BORING MANITOU YARD, 5 TH. S.	JOB NO. 8546	CLIENT URS/METRO	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-3150</div>
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL	11'	13'	START TIME 1100
TIME	1200	1210	FINISH TIME 1230
DATE	2-18-86	2-18-86	DATE 2-18-86

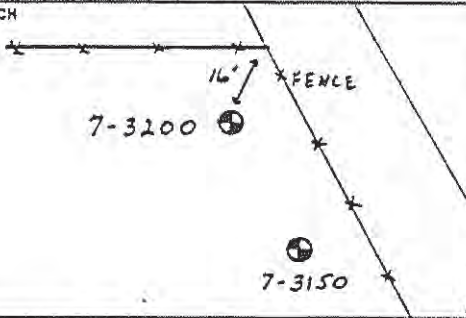
DATUM **SURFACE** ELEVATION **18'** CASING DEPTH _____ DATE **2-18-86** DATE **2-18-86**

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	CUTTING	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION
					0			3 INCH CRUSHED ROCK		
								H _N UNAVAILABLE		
								FILL		
								SILT - light gray; slightly moist; cement waste		
1	2.5	8	18					SILT - very light gray; massive; moist		1135
	SPT 4.0	9	18							
2	5.0	4	18		5			SILT - as above; some fine gravel; rusty stains; moist; possibly glacial origin		1155
	SPT 6.5	4	18							
3	7.5	4	18					SILT - as above; no gravel; odor like cement; cement waste		1205
	SPT 9.0	6	18							
4	10.0	7	18		10			SAND - dark gray, fine to medium; volcanic, quartz and lithic grains; trace silt; trace plant debris		1215
	SPT 11.5	7	18							
5	12.5	4	18					SAND - as above; wet		1220
	SPT 14.0	6	18							
6	15.5	1	18					SILT - dark gray; laminated at top; blocky at tip; abundant plant fiber, especially at tip; organic odor		1230
	SPT 17.0	2	18							
END OF HOLE: Total depth 13.6' measured inside auger; hole backfilled to surface with cuttings										

SUBTERRANEAN
 DRILLING CONTRACTOR **JIM**
 DRILLER
 BY **SHE** DATE **2-18-86** CKD BY **SH**

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING MANITOU YARD, 5 TH. S.				JOB NO. 8546		CLIENT URS/METRO		BORING NO. 7-3200	
LOCATION SKETCH 				PROJECT NAME METRO ETS-7		DRILLING METHOD: HOLLOW STEM AUGER			
				SAMPLING METHOD: STANDARD PENETRATION TEST		140 LB. SAFETY HAMMER DROPPED 30 INCHES			
DATUM SURFACE				ELEVATION 17.5'		CASING DEPTH		START TIME	
SAMPLE NO.				DEPTH IN FEET		PREMETER		FINISH TIME	
SAMPLE TYPE				INCHES PER 6 INCHES		GRAPHIC LOG		DATE	
BLOWS PER 6 INCHES				INCHES DRIVEN RECOVERED		SURFACE CONDITION		DATE	
G11.4				H11.4		3" CRUSHED ROCK		2-18-86	
						H11.4 UNAVAILABLE		2-18-86	
						CLASSIFICATION		DESCRIPTION	
						FILL			
1				2		SILT - light gray; cement waste		1455	
SPT 3.5				2/3					
2				1		SILT - light gray; cement waste		1515	
SPT 6.0				1/2					
3				1		SILT - light gray; cement waste			
SPT 8.5				6/10					
4				15		SAND - dark gray, fine to medium; plant debris		1525	
SPT 11.0				50		SAND - dark gray; fine to medium; some silt		1535	
5				5		SAND - as above		1540	
SPT 13.5				5/3					
6				1		SILT - gray/brown; abundant plant fiber; blocky structure; poorly laminated		1550	
SPT 16.0				1/2					
						END OF HOLE: Total depth 13.2 feet measured inside auger; hole backfilled to surface with cuttings			

SUBTERRANEAN
DRILLING CONTRACTOR **JIM**
DRILLER

BY **SHE**
DATE **2-18-86** CHKD BY **SH**

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING FRAY'S YARD	JOB NO. 8546 CLIENT URS/METRO PROJECT NAME METRO.ETS-7	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-3250</div>																			
LOCATION SKETCH																					
DRILLING METHOD: HOLLOW STEM AUGER																					
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">WATER LEVEL</td> <td style="width: 30%;">5.1'</td> <td style="width: 30%;">6.0'</td> <td style="width: 10%;">START TIME</td> <td style="width: 10%;">FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>1520</td> <td>1526</td> <td>1430</td> <td>1540</td> </tr> <tr> <td>DATE</td> <td>3-14-86</td> <td>3-14-86</td> <td>DATE</td> <td>DATE</td> </tr> </table>		WATER LEVEL	5.1'	6.0'	START TIME	FINISH TIME	TIME	1520	1526	1430	1540	DATE	3-14-86	3-14-86	DATE	DATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">CASING DEPTH</td> <td style="width: 30%;"></td> <td style="width: 30%;">3-14-86</td> <td style="width: 10%;">3-14-86</td> </tr> </table>	CASING DEPTH		3-14-86	3-14-86
WATER LEVEL	5.1'	6.0'	START TIME	FINISH TIME																	
TIME	1520	1526	1430	1540																	
DATE	3-14-86	3-14-86	DATE	DATE																	
CASING DEPTH		3-14-86	3-14-86																		

DATUM SURFACE					ELEVATION 17'		SURFACE CONDITION				
SAMPLE NO	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	HNu	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION
									GRASS AND BLACKBERRY COVER		
									HNu BACKGROUND = 0.4 ("B")		
									FILL		
									SAND, GRAVEL - brown, fine to medium; fine to coarse		
1	SPT	2.5	2	18	B	-	0			SAND - dark brown with rusty stain at top, light gray at tip, fine to medium; little fine gravel; cement waste; moist	1445
2	SPT	5.0	1	18	B	-	5	WL 1526		SAND - as above, cement waste; trace of wood debris; glass in tip; moist	1451
3	SPT	7.5	1	18	B	-	10			SAND - as above, cement waste; glass; very moist	1455
4	SPT	10.0	3	18	B	-	10	SEAL		SAND - dark gray, fine; quartz and lithic grains; abundant roots at top; wet	1501
5	SPT	12.5	2	18	B	0	15			SAND - as above; trace of fine to coarse gravel; occasional rootlets; wet	1506
6	SPT	15.0	3	18	B	-	15			SILT - gray; laminated; abundant plant fiber along and transverse to bedding; slight organic odor; moist	1516
									END OF HOLE: Total depth 15.5 feet inside auger; bentonite seal at 10 feet; hole backfilled to surface with cuttings; water added during drilling, water level is probably high.		

HOKKAIDO
 DRILLING CONTRACTOR BOB
 DRILLER
 BY SHE
 DATE 3-14-86
 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING FRAY'S YARD LOCATION SKETCH 	JOB NO. 8546 CLIENT URS/METRO PROJECT NAME METRO ETS-7 BORING NO. 7-3300 DRILLING METHOD: HOLLOW STEM AUGER SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">WATER LEVEL</td> <td style="width: 20%;">13.5'</td> <td style="width: 20%;">13.1'</td> <td style="width: 10%;">START TIME</td> <td style="width: 10%;">FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>1400</td> <td>1410</td> <td>1315</td> <td>1420</td> </tr> <tr> <td>DATE</td> <td>3-14-86</td> <td>3-14-86</td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> <td></td> <td>3-14-86</td> <td>3-14-86</td> </tr> </table>	WATER LEVEL	13.5'	13.1'	START TIME	FINISH TIME	TIME	1400	1410	1315	1420	DATE	3-14-86	3-14-86	DATE	DATE				3-14-86	3-14-86
WATER LEVEL	13.5'	13.1'	START TIME	FINISH TIME																	
TIME	1400	1410	1315	1420																	
DATE	3-14-86	3-14-86	DATE	DATE																	
			3-14-86	3-14-86																	

DATUM		SURFACE		ELEVATION		17'		CASING DEPTH			
SAMPLE NO	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION	
						0			SURFACE CONDITION GRASS AND BLACKBERRY COVER HNU BACKGROUND = 0.6 - 0.8 ("B")		
									FILL SAND AND CRUSHED ROCK - brown, medium to coarse; 2"		
1	2.5	2	18	3.0					SILT, SAND AND GRAVEL - brown; fine to coarse; fine to coarse 1325		
2	5.0	2	18	2.5		5			SILT, SAND AND GRAVEL - as above; wood debris 1330		
3	7.5	4	18	B					NO RECOVERY FIRST DRIVE 1337 SILT, SAND AND GRAVEL - as above		
4	10.0	6	18	2.4		10			SILT - gray; trace of plant material on contact S-4(A) 1343 SAND - dark gray, fine to medium; quartz and lithic grains S-4(B)		
5	12.5	1	18	2					SAND - dark gray, fine to medium; indistinctly bedded 1355		
6	15.0	5	18	1.2		15			SILT - gray brown; laminated; abundant wood debris along bedding; slight organic odor 1400		
END OF HOLE: Total depth 14.9 feet inside auger; bentonite seal placed at 11 feet; hole backfilled to surface with cuttings; sample 4 intersected fill contact; fill sampled as 4A, native soil as 4B											

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 BY SHE
 DATE 3-14-86 CHWD BY SH

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LOCATION OF BORING FRAY'S YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3350
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		11'	10.9'
TIME		1249	1255
DATE		3-14-86	3-14-86
DATUM SURFACE		ELEVATION 17'	
CASING DEPTH		START TIME 1130 FINISH TIME 1310 DATE 3-14-86	

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 BY SHE
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SAMPLE NO	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	HNu	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION
					0				SURFACE CONDITION GRASS COVER
									HNu BACKGROUND ("B") = 0.8 - 1.0
									FILL
									CRUSHED ROCK AND SILT - gray, 2"
1	2.5 SPT 4.0	2 3	18 4	2 -					SILT, SAND AND CRUSHED ROCK - brown; fine to coarse; 2"; moist
2	5.0 SPT 6.5	4 4	18 8	1.2 -	5				SILT, SAND - as above, fine to coarse; trace crushed rock; wood; moist
3	7.5 SPT 9.0	5 6	18 9	3 -					SAND AND GRAVEL - brown, fine to coarse; fine to coarse; trace silt chunks; moist
4	10.0 SPT 11.5	6 9	18 7	1.2 -	10	SEAL			SAND - dark gray, fine to medium; indistinctly bedded; quartz and lithic grains; wet
5	12.5 SPT 14.0	1 2	18 2	2.6 -					SAND - as above
									SILT - gray, laminated; plant debris along bedding
6	15.0 SPT 16.5	5 9	18 6	4.4 -	15				SAND - gray, fine; laminated; trace of plant debris along bedding
END OF HOLE: Total depth 15.0 feet inside auger; bentonite seal at 10 feet; hole backfilled to surface with cuttings; HNu is unstable during drilling of this hole.									

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SHEET 1 OF 1

LOCATION OF BORING LONG'S YARD		JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3450			
LOCATION SKETCH		PROJECT NAME METRO ETS-7					
		DRILLING METHOD: HOLLOW STEM AUGER					
		SAMPLING METHOD: STANDARD PENETRATION TEST					
		140 LB. SAFETY HAMMER DROPPED 30 INCHES					
		WATER LEVEL	≈ 11'	3.9'	3.9'	START TIME	FINISH TIME
		TIME	1425	1530	1540	1350	1550
		DATE	3-13-86	3-13-86	3-13-86	DATE	DATE

DATUM	SURFACE	ELEVATION	17'	CASING DEPTH				3-13-86	3-13-86
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SAMPLE NO	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION
							0			FILL		
										SAND AND GRAVEL - brown, fine to medium; fine to coarse; wood, glass; slightly moist		
1	SPT	2.5	5	18	1.0					SILTY SAND - brown, fine to medium; little fine gravel; glass, plastic, wood; moist		1400
2	SPT	5.0	6	18	B		5			SILTY SAND - as above; trace of asphalt debris; moist		1405
3	SPT	7.5	2	18	1.0					SANDY SILT AND GRAVEL - brown, fine; sand fine to medium; abundant rusty mottling; glass; moist		1420
4	SPT	10.0	13	18	0.8		10	SEAL		SAND - dark gray, fine to medium; laminated; quartz, volcanic and other lithic grains; moist		1425
5	SPT	12.5	2	18	1.0					SAND - dark gray, fine to medium; wet		1430
6	SPT	15.0	2	18	1.0		15			SILT - brown; laminated; some fine sandy laminae; plant and wood fiber along bedding; glass; very moist		1445
END OF HOLE: Total depth 14.6 feet inside auger; bentonite seal at 10 feet; hole backfilled to surface with cuttings; water level seems high; auger tip in impermeable silt, but water level does not fall even after auger half pulled out												

DRILLING CONTRACTOR HOKKAIDO BOB
 DRILLER
 BY SHE 3-13-86 CHD BY SH
 DATE

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING LONG'S YARD		JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3497				
LOCATION SKETCH 		DRILLING METHOD: HOLLOW STEM AUGER						
		SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES						
		WATER LEVEL	HOLE DRY TO	TOTAL				
		TIME	DEPTH	START TIME 1230				
		DATE	DATE	FINISH TIME 1250				
		CASING DEPTH	DATE	DATE 3-13-86				
DATUM SURFACE		ELEVATION 18'		CLOSING DEPTH				
SURFACE CONDITION SILT, SAND, GRAVEL HNu BACKGROUND ("B") = 0.6								
SAMPLE NO. SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN INCHES RECOVERED	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION DESCRIPTION
					0			FILL ASPHALT DEBRIS - black, sand and gravel
1	2.5	3	18	1.0				SILT - brown SILT - brown, some fine gravel; little clay; trace asphalt debris; moist; trace of roots
SPT	4.0	4	6	7				1235
					5			END OF HOLE: Obstruction at 4 feet; hole backfilled to surface with cuttings; see logs 7-3500, 7-3503
					10			
					15			
					20			

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 DRILLER

BY SHE DATE 3-13-86 CHKD BY SH

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SHEET 1 OF 1

LOCATION OF BORING LONG'S YARD				JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3500					
LOCATION SKETCH 				PROJECT NAME METRO ETS-7							
				DRILLING METHOD: HOLLOW STEM AUGER							
				SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES							
				WATER LEVEL		DRY TO TOTAL DEPTH					
				TIME		1140	1220				
				DATE							
DATUM SURFACE				ELEVATION 19'		CASING DEPTH					
						3-13-82	3-13-82				

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVER RECOVERED	PIEZOMETER	DEPTH IN FEET	GRAPHIC LOG	SURFACE CONDITION	
							CLASSIFICATION	DESCRIPTION
					0		SAND, 3" CRUSHED ROCK, SPARSE GRASS HNu BACKGROUND ("B") = 0.6	
							FILL ASPHALT CHUNKS AND DEBRIS: SAND AND GRAVEL	
							SILT AND GRAVEL - brown, fine to coarse SILT - brown; little fine to coarse sand; trace fine gravel; trace asphalt debris 1150	
1	2.5	4	18	1.0			NOTE: occasional brick in auger 1155	
SPT	4.0	5/5	4	-				
2	5.0	50 FOR 3	3	1.0	5		SILT - as above 1155	
SPT	6.5		1	-				
							END OF HOLE: obstruction at 5.5 feet; hole backfilled to surface with cuttings; see logs 7-3497 and 7-3503	
					10			
					15			
					20			

DRILLING CONTRACTOR HOKKAIDO
 DRILLER BOB

BY SHE
 DATE 3-13-86 CKD BY SH

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<p>LOCATION OF BORING LONG'S YARD</p> <p>LOCATION SKETCH</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>JOB NO. 8546</td> <td>CLIENT URS/METRO</td> <td>BORING NO. 7-3503</td> </tr> <tr> <td colspan="2">PROJECT NAME METRO ETS-7</td> <td></td> </tr> <tr> <td colspan="3">DRILLING METHOD: HOLLOW STEM AUGER</td> </tr> <tr> <td colspan="3">SAMPLING METHOD: STANDARD PENETRATION TEST</td> </tr> <tr> <td colspan="3">140 LB. SAFETY HAMMER DROPPED 30 INCHES</td> </tr> <tr> <td>WATER LEVEL</td> <td>DRY TO TOTAL DEPTH</td> <td>START TIME</td> </tr> <tr> <td>TIME</td> <td></td> <td>1300</td> </tr> <tr> <td>DATE</td> <td></td> <td>DATE</td> </tr> <tr> <td></td> <td></td> <td>3-13-86</td> </tr> <tr> <td></td> <td></td> <td>3-13-86</td> </tr> </table>	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3503	PROJECT NAME METRO ETS-7			DRILLING METHOD: HOLLOW STEM AUGER			SAMPLING METHOD: STANDARD PENETRATION TEST			140 LB. SAFETY HAMMER DROPPED 30 INCHES			WATER LEVEL	DRY TO TOTAL DEPTH	START TIME	TIME		1300	DATE		DATE			3-13-86			3-13-86
JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3503																													
PROJECT NAME METRO ETS-7																															
DRILLING METHOD: HOLLOW STEM AUGER																															
SAMPLING METHOD: STANDARD PENETRATION TEST																															
140 LB. SAFETY HAMMER DROPPED 30 INCHES																															
WATER LEVEL	DRY TO TOTAL DEPTH	START TIME																													
TIME		1300																													
DATE		DATE																													
		3-13-86																													
		3-13-86																													

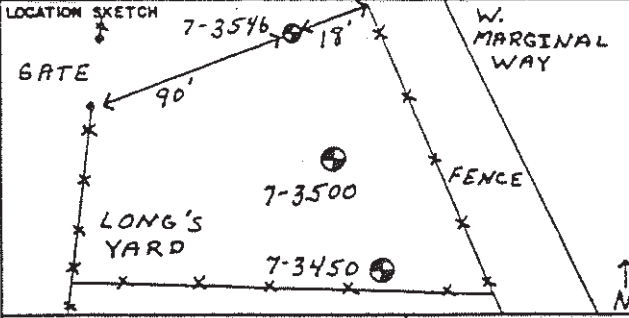
DATUM SURFACE		ELEVATION 20'		CASING DEPTH		3-13-86		3-13-86	
SAMPLE NO.		SAMPLE DEPTH		BLOWS PER 6 INCHES		INCHES DRIVEN		INCHES RECOVERED	
SAMPLE TYPE		DEPTH IN FEET		PIEZOMETER		GRAPHIC LOG		SURFACE CONDITION	
								SPARSE GRASS, ASPHALT DEBRIS	
								HNu BACKGROUND ("B") = 0.4 - 0.6	
								CLASSIFICATION	
								DESCRIPTION	
								FILL	
								ASPHALT DEBRIS	
								SILT - brown; trace to little clay; trace fine to coarse gravel; brick and asphalt debris	
2	5.0	50 FOR 3	3	B	5			SANDY SILT AND GRAVEL - brown; fine to medium; fine; brick fragments	
	6.5		1	-				1305	
								END OF HOLE: Hole terminated due to obstruction; hole dry at total depth; hole backfilled to surface with cuttings; see logs for 7-3497 and 7-3500	

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BOB
DRILLER

BY SHE
DATE 3-13-86
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PAGE 1 OF 1

LOCATION OF BORING LONG'S YARD				JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3546			
LOCATION SKETCH 				PROJECT NAME METRO ETS-7					
				DRILLING METHOD: HOLLOW STEM AUGER					
				SAMPLING METHOD: STANDARD PENETRATION TEST					
				140 LB. SAFETY HAMMER DROPPED 30 INCHES					
				WATER LEVEL		START TIME	FINISH TIME		
				≈ 11' 7.3' 9.2' 9.3'		0920	1100		
				TIME		DATE			
				1030 1055 1104 1108		3-13-86 3-13-86 3-13-86 3-13-86			
DATUM SURFACE				ELEVATION 20'	CASING DEPTH		3-8-86 3-13-86		

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
										CLASSIFICATION DESCRIPTION	
										SAND, GRAVEL, CONCRETE DEBRIS, SPARSE GRASS HNU BACKGROUND ("B") = 0.4 - 0.6	
							0			FILL	
										SAND AND CRUSHED ROCK = dark brown, fine to medium; 2"; brick and concrete debris	
1	SPT	2.5	4	18	1.5					SILT AND SAND - brown, fine to medium; trace fine gravel; dark gray, oiled half inch crushed rock and sand in tip; moist 0945	
2	SPT	5.0	7	18	8		5			SAND AND GRAVEL - dark gray, fine to coarse; fine; trace silt; possibly oiled; moist 0955	
3	SPT	7.5	5	18	1.5					SAND AND GRAVEL - as above; first drive only 1 inch recovery; some brown sandy silt 1005	
4	SPT	10.0	5	18	13		10			SANDY SILT AND OILED (?) SAND AND GRAVEL - brown and dark gray; sand fine to coarse; gravel fine; moist 1104	
										SAND - dark gray, fine to medium; laminated; quartz, volcanic and other lithic grains; very moist 1025	
5	SPT	12.5	4	18	1.0					SAND - as above; occasional silt rip-up inclusions; wet 1030	
6	SPT	15.0	5	18	8		15			SAND - as above SILT OR FINE SAND - dark gray; laminated 1040	
7	SPT	16.5	3	18	8					SILT - as above; 3 inches fine to medium sand interbedded; possible faint organic odor 1045	
										END OF HOLE: Total depth 16.2 feet inside auger; bentonite seal placed at 10 feet; hole backfilled to surface with cuttings; see log 7-3550	

DRILLING CONTRACTOR
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DRILLER

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DATE **3-13-86**
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SHEET 1 OF 1

LOCATION OF BORING LONG'S YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3550																								
LOCATION SKETCH 	PROJECT NAME METRO ETS-7																										
	DRILLING METHOD: HOLLOW STEM AUGER																										
	SAMPLING METHOD: STANDARD PENETRATION TEST 140 lb. SAFETY HAMMER DROPPED 30 INCHES																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">WATER LEVEL</td> <td style="width: 15%;">HOLE DRY TO</td> <td style="width: 15%;">TOTAL</td> <td style="width: 15%;"></td> <td style="width: 10%;">START TIME</td> <td style="width: 10%;">FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>DEPTH</td> <td></td> <td></td> <td>0825</td> <td>0920</td> </tr> <tr> <td>DATE</td> <td></td> <td></td> <td></td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>3-13-86</td> <td>3-13-86</td> </tr> </table>				WATER LEVEL	HOLE DRY TO	TOTAL		START TIME	FINISH TIME	TIME	DEPTH			0825	0920	DATE				DATE	DATE					3-13-86	3-13-86
WATER LEVEL	HOLE DRY TO	TOTAL		START TIME	FINISH TIME																						
TIME	DEPTH			0825	0920																						
DATE				DATE	DATE																						
				3-13-86	3-13-86																						
DATUM SURFACE		ELEVATION 20'																									

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	HN ₄	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION
							0			SAND, GRAVEL, SPARSE GRASS, HN ₄ BACKGROUND ("B") = 0.4 - 0.6		
							5			FILL SILTY SAND - dark brown, fine to medium; little fine to coarse gravel; concrete blocks		
1	2.5	3	18	2	B	-				SILT - brown; little fine sand; wood, brick debris		0845
2	5.0	3	18	3	B	-				SILT - as above; brick and possible asphalt or oiled debris; little fine gravel		0855
										NOTE: asphalt or oiled material in auger		
3	7.5	50 FOR	2	2	B	-				SILT - as above		0900
							10			END OF HOLE - obstruction at 7.5 feet; hole backfilled to surface with cuttings; see log 9-3546		
							15					
							20					

DRILLING CONTRACTOR HOKKAIDO BOB
 DRILLER

BY SHE 3-13-86 CHKD BY SH

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SHEET 1 OF 2

LOCATION OF BORING LONG'S YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3597																				
LOCATION SKETCH S.KING CO. TRANSFER STATION 	DRILLING METHOD: HOLLOW STEM AUGER																						
	SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">WATER LEVEL</td> <td style="width: 10%;">16'</td> <td style="width: 10%;">14.1'</td> <td style="width: 10%;">13.8'</td> <td style="width: 10%;">13.2'</td> <td style="width: 10%;">START TIME</td> <td style="width: 10%;">FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>1642</td> <td>1648</td> <td>1652</td> <td>1656</td> <td>1430</td> <td>1710</td> </tr> <tr> <td>DATE</td> <td>3-12-86</td> <td>3-12-86</td> <td>3-12-86</td> <td>3-12-86</td> <td>DATE</td> <td>DATE</td> </tr> </table>			WATER LEVEL	16'	14.1'	13.8'	13.2'	START TIME	FINISH TIME	TIME	1642	1648	1652	1656	1430	1710	DATE	3-12-86	3-12-86	3-12-86	3-12-86	DATE
WATER LEVEL	16'	14.1'	13.8'	13.2'	START TIME	FINISH TIME																	
TIME	1642	1648	1652	1656	1430	1710																	
DATE	3-12-86	3-12-86	3-12-86	3-12-86	DATE	DATE																	

DATUM SURFACE ELEVATION 18' CASING DEPTH 3-12-86 3-12-86

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVER RECOVERED	HNu	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION
								GRAVEL, SAND, SPARSE GRASS		
								HNu BACKGROUND = "B"		
								FILL		
								GRAVEL, SAND, SILT - brown; large concrete chunks, metal		
1	2.5	15	18	B				SAND AND GRAVEL - brown and gray, fine to coarse; concrete debris; dry		1500
	4.0	10	8	4						
2	5.0	4	4	18	B			SILTY SAND AND GRAVEL - brown, fine to coarse; fine; plastic tile; moist		1505
	6.5	4	5	7						
3	7.5	7	7	18	B			SILT, SAND AND GRAVEL - brown, fine to medium; fine to coarse; brick, other debris; moist		1515
	9.0	7	9	10						
4	10.0	7	7	18	B			SAND - dark gray, fine to medium; quartz, volcanic and other lithic grains; wet		1525
	11.5	7	9	14						
								SEAL		
5	12.5	4	7	18	B			SAND - dark gray, fine; possible trace of organic debris; indistinctly laminated		1530
	14.0	7	8	10						
								WL 16.5'		
6	15.0	2	6	18	B			SAND - as above		1535
	16.5	6	7	7						
7	17.5	1	1	18	-			SANDY SILT - dark gray, fine; laminated; wood debris along bedding		1540
	19.0	3	18	-						

DRILLING CONTRACTOR HOKKAIDO BOB
 DRILLER BOB
 BY SHE DATE 3-12-86 CHKD BY SH

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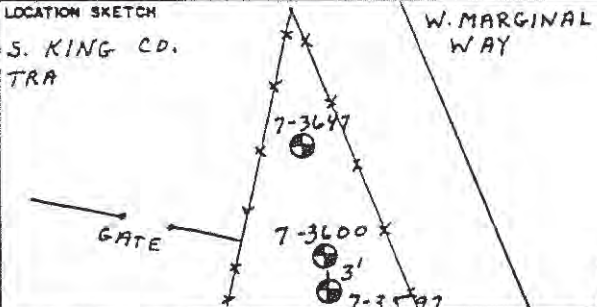
SHEET 2 OF 2

LOCATION OF BORING LONG'S YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3597																					
LOCATION SKETCH S. KING CO. TRANSFER STATION 	DRILLING METHOD: HOLLOW STEM AUGER																							
	SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">WATER LEVEL</td> <td style="width: 10%;">16'</td> <td style="width: 10%;">14.1'</td> <td style="width: 10%;">13.8'</td> <td style="width: 10%;">13.2'</td> <td style="width: 10%;">START TIME</td> <td style="width: 10%;">FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>1642</td> <td>1648</td> <td>1652</td> <td>1656</td> <td>1430</td> <td>1710</td> </tr> <tr> <td>DATE</td> <td>3-12-86</td> <td>3-12-86</td> <td>3-12-86</td> <td>3-12-86</td> <td>DATE</td> <td>DATE</td> </tr> </table>				WATER LEVEL	16'	14.1'	13.8'	13.2'	START TIME	FINISH TIME	TIME	1642	1648	1652	1656	1430	1710	DATE	3-12-86	3-12-86	3-12-86	3-12-86	DATE	DATE
WATER LEVEL	16'	14.1'	13.8'	13.2'	START TIME	FINISH TIME																		
TIME	1642	1648	1652	1656	1430	1710																		
DATE	3-12-86	3-12-86	3-12-86	3-12-86	DATE	DATE																		
DATUM SURFACE		ELEVATION 18'		CASING DEPTH		3-12-86	3-12-86																	

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 8 INCHES	INCHES DRIVEN	RECORD NO.	HN ₄	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION
8	SPT	20.0	2	18	18	B	-	20			SAND SILT - as above		
9	SPT	22.5	4	18	18	B	-	25			SAND - dark gray, fine; silty and laminated in places; wood debris	1600	
10	SPT	25.0	7	18	18	B	-	30			No recovery on first drive	1600	
		26.5	12	18	18	B	-				No recovery second try		
11	SPT	27.5	2	18	18	B	-	35			SAND - dark gray, fine to medium; quartz, volcanic and other lithic grains	1620	
		29.0	3	18	18	B	-				SAND - as above; trace of coarse grains	1635	
12	SPT	29.0	3	16	16	B	0	40			END OF HOLE: Total depth 26.5 feet inside auger; bentonite seal at 10 feet; hole backfilled to surface with cuttings; see log 7-3600		
		30.5	15	16	16	B	0						

DRILLING CONTRACTOR HOKKAIDO BOB
 DRILLER
 BY SHE 3-12-86 CHND BY SH

HONG CONSULTING ENGINEERS, INC.

LOCATION OF BORING LONG'S YARD	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3600
LOCATION SKETCH S. KING CD. TRA 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL: DRY TO TOTAL DEPTH		START TIME 1350	FINISH TIME 1430
TIME: _____		DATE: _____	DATE: _____
DATUM: SURFACE		ELEVATION: 18'	CASING DEPTH: _____

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	HN ₄	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION
							0			GRAVEL, SAND, SPARSE GRASS HNu BACKGROUND = 0.4 - 0.6 ("B")
							5			CLASSIFICATION: _____ DESCRIPTION: _____ FILL SILTY SAND AND GRAVEL - brown, fine to medium; fine to coarse; concrete chunks
1	2.5	15	18	13			10			SILT AND SAND - brown, fine to medium; concrete debris 1405
	4.0	10	12	6			15			END OF HOLE: Obstruction; hole backfilled to surface with cuttings; see log 7-3597
							20			

DRILLING CONTRACTOR HOKKAIDO
 DRILLER BOB

BY SHE
 DATE 3-12-86 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

DATE: 1 of 1

LOCATION OF BORING LONG'S YARD	JOB NO. 8546 CLIENT URS/METRO	BORING NO. 7-3647
LOCATION SKETCH S. KING CO. TRANSFER STATION PAVING GATE FENCE W. MARGINAL WAY 7-3650 7-3647 33'	PROJECT NAME METRO ETS-7	DRILLING METHOD: HOLLOW STEM AUGER
	SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES	
	WATER LEVEL $\approx 9.5'$ 10.9'	START TIME 0940 FINISH TIME 1330
	TIME 1040 1307	DATE 3-12-86 3-12-86
		DATE 3-12-86 3-12-86

DATUM SURFACE		ELEVATION 18'		CASING DEPTH		DATE 3-12-86 3-12-86	
SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 8 INCHES	INCHES DRIVEN	INCHES RECOVERED	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG
TYPE			HN ₄	CH ₄			
1	3.0	4	18	8	0		FILL
SPT	4.5	4/6	5	-			SAND AND GRAVEL - dark brown, fine to medium; fine to coarse; pipe, rubber, concrete debris
2	5.5	50 FOR 3	3	8	5		SANDY SILT AND GRAVEL - brown, fine to coarse; possible concrete debris; moist 1000
SPT	7.0	3/3	3	-			SANDY SILT AND GRAVEL - as above; concrete in tip; moist 1010
3	8.0	8/15	18	8	10		SAND - brown, fine to medium; little fine gravel; little silt at top; trace of styrofoam at top; concrete chips; moist 1025
SPT	9.5	16/18	18	-			
4	10.5	3/3	18	8	10	SEAL W/L 13.7	SAND - dark gray, fine to medium; occasional silt rip up; quartz, volcanic, lithic grains
SPT	12.0	3/4	18	-			SILT - gray brown; laminated; fine scale mottling; trace plant debris
5	13.0	3/4	18	8	15		SAND AND SILTY SAND - dark gray, fine to medium; gradational; laminated where finer grained 1050
SPT	14.5	6/8	8	-			
6	15.5	2/7	18	8	15		SAND AND SILTY SAND - dark gray, fine to medium; interbedded; piece of plastic at top; slough? 1100
SPT	17.0	9/12	12	-			
7	18.0	3/8	18	8	20		SILT - gray to dark gray; laminated and bedded with some fine sand in beds; occasional tan laminae 1115
SPT	19.5	7/18	18	-			

DRILLING CONTRACTOR **HOKKAIDO BOR**
DRILLER
BY **SHE** DATE **3-12-86** CHD BY **SH**

HONG CONSULTING ENGINEERS, INC.

PAGE: 2 of 2

LOCATION OF BORING LONG'S YARD		JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3647
LOCATION SKETCH S. KING CO. TRANSFER STATION PAVING GATE FENCE W. MARGINAL WAY 7-3650 7-3647		PROJECT NAME METRO ETS-7		
		DRILLING METHOD: HOLLOW STEM AUGER		
		SAMPLING METHOD: STANDARD PENETRATION TEST		
		140 LB. SAFETY HAMMER DROPPED 30 INCHES		
DATUM SURFACE		ELEVATION 18'		CASING DEPTH
		WATER LEVEL	≈9.5'	10.9'
		TIME	1040	1307
		DATE	3-12-86	3-12-86
		START TIME	0940	1330
		DATE	3-12-86	3-12-86

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	HN4 CH4	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
									CLASSIFICATION	DESCRIPTION
8	SPT	20.5	5	18	B	20			SILT AND SAND - dark gray, fine; interbedded and interlaminated; trace of plant fiber; trace of shell fragments; trace of glass	1125
9	SPT	23.0	7	18	B	23			INTERBEDDED SAND AND SILT - dark gray, fine to medium; faint organic odor	1135
10	SPT	25.5	2	18	B	25			SAND - dark gray, fine to medium; quartz, volcanic and other lithic grains	1200
11	SPT	28.0	2	18	B	28			SAND - as above; trace coarse	1205
-	SPT	30.5	15	18		30			No recovery on two attempts	
12	SPT	31.5	12	10	B	31			SAND - as above; about 2 feet of heave inside auger	1250
END OF HOLE: Total depth 29.7 feet inside auger; bentonite seal placed at 10 feet; hole backfilled to surface with cuttings; very clean hole; see log 7-4650										

DRILLING CONTRACTOR **HOKKAIDO BOB**
 DRILLER
 BY **SHE** CHKD BY **SH**
 DATE **3-12-86**

HONG CONSULTING ENGINEERS, INC.

LOCATION OF BORING LONG'S YARD				JOB NO. 8546		CLIENT URS/METRO		BORING NO. 7-3650			
LOCATION SKETCH 				PROJECT NAME METRO ETS-7						DRILLING METHOD: HOLLOW STEM AUGER	
				SAMPLING METHOD: STANDARD PENETRATION TEST						140 LB. SAFETY HAMMER DROPPED 30 INCHES	
				WATER LEVEL		DRY TO 5.5'		START TIME		FINISH TIME	
				0830		0940					
TIME				DATE		DATE					
				3-12-86		3-12-86					
DATUM SURFACE				ELEVATION 18'		CASING DEPTH					
SURFACE CONDITION				SAND, GRAVEL, SPARSE GRASS							
				HNU BACKGROUND = 0.4 - 0.6							
CLASSIFICATION				DESCRIPTION							
				FILL							
				SAND AND GRAVEL - dark brown, fine to medium; fine to coarse							
				SAND AND GRAVEL - dark brown, fine to medium; fine to coarse; brick; grass; small bits of oxidized chromium color material, unidentified; moist							
				0855							
				END OF HOLE: Obstruction at 5.5 feet; attempted to drive sampler, 50 for no feet; hole backfilled to surface with cuttings; dry to total depth; see log 7-3647							

HOKKAIDO
 DRILLING CONTRACTOR BOB
 DRILLER

BY SHE
 DATE 3-12-86
 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION				JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3700	
LOCATION SKETCH				PROJECT NAME METRO ETS-7			
				DRILLING METHOD: HOLLOW STEM AUGER			
				SAMPLING METHOD: STANDARD PENETRATION TEST 140 lb. SAFETY HAMMER			
WATER LEVEL		11.0'	11.5'	START TIME	FINISH TIME		
TIME		1035	1146	0917	1200		
DATE		2-10-86	2-10-86	DATE	DATE		
DATE		2-10-86	2-10-86	2-10-86	2-10-86		
DATUM SURFACE				ELEVATION	18'		CASING DEPTH
SURFACE CONDITION				GRASS COVER			
HNU BACKGROUND				= "B"			
CLASSIFICATION				DESCRIPTION			
(FILL)				SAND AND GRAVEL - brown, fine sand and fine gravel;			
1				SILTY SAND- dark brown, fine to medium; little fine gravel; glass, brick, wood debris; organic odor			
2				SILTY SAND-Dark brown, fine to medium; black mottling; slight organic odor; glass and brick fragments			
3				SILTY GRAVEL - dark brown, fine; trace fine sand			
4				SAND - dark gray to black, fine to medium; trace fine gravel			
5				SAND - dark gray to black, fine to medium; 4 inch silt interbed at 12.5'; trace organic; trace silt			
6				SAND - dark gray to black, fine to medium, volcanic grains; trace silt; 2 inch silty bed at base; small shell fragments and wood fragments			
7				SAND - dark gray, fine to medium; trace silt; 2 inch tan, laminated silt band at base; possible volcanic ash			
8				SAND - dark gray, fine to medium; trace gravel; thin silt beds; organics			

DRILLING CONTRACTOR JC SUBTERRANEAN
DRILLER JC

BY SH DATE 2-10-86 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 2 OF 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION			JOB NO. 8546 CLIENT URS/ METRO		BORING NO. 7-3700	
LOCATION SKETCH			PROJECT NAME METRO ETS-7			
			DRILLING METHOD: HOLLOW STEM AUGER			
			SAMPLING METHOD: STANDARD PENETRATION TEST 140 lb. SAFETY HAMMER			
			WATER LEVEL		11.0'	
TIME		1035		1146		
DATE		2-10-86		2-10-86		
START TIME		0917		1200		
DATE		2-10-86		2-10-86		
DATUM SURFACE			ELEVATION 18'		CASING DEPTH	
SAMPLE NO. SAMPLE TYPE			SURFACE CONDITION GRASS COVER			
SAMPLE DEPTH			CLASSIFICATION			
BLOWS PER 6 INCHES			DESCRIPTION			
INCHES DRIVER RECOVERED						
HN₄						
CH₄						
DEPTH IN FEET			20			
PIEZOMETER						
GRAPHIC LOG						
END OF HOLE; Total Depth 21 feet inside auger; boring backfilled upon completion with cuttings, bentonite seal 9.0' to 10.0'						

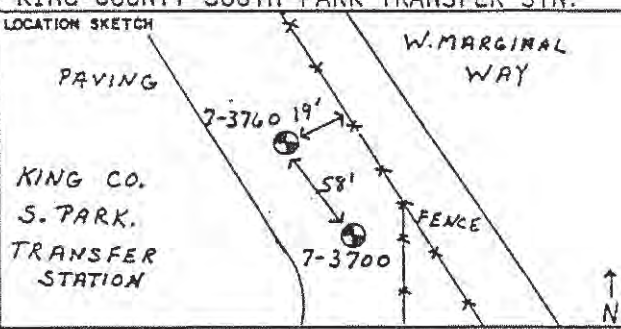
SUBTERRANEAN

DRILLING CONTRACTOR **JC**
DRILLER

BY **SH**
DATE **2-10-86** CHKD BY **SH**

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING COUNTY SOUTH PARK TRANSFER STN.				JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3760				
LOCATION SKETCH 				PROJECT NAME METRO ETS-7						
				DRILLING METHOD: HOLLOW STEM AUGER						
				SAMPLING METHOD: STANDARD PENETRATION TEST						
				140 lb. SAFETY HAMMER						
				WATER LEVEL	11.0'	13.5'	START TIME	FINISH TIME		
				TIME	1330	1342	1300	1400		
				DATE	2-10-86	2-10-86	DATE	DATE		
							2-10-86	2-10-86		
DATUM SURFACE				ELEVATION	18'		CASING DEPTH			
				SURFACE CONDITION					GRASS COVER	
				HNu BACKGROUND = "8"						
				CLASSIFICATION					DESCRIPTION	
				FILL						
				SAND - brown, fine; little silt; clinker ash, little gravel					1310	
				-- NOTE: Driller reports driving through rock or concrete						
				GRAVELLY SAND - brown; trace silt, iron staining, whitish lens of sand and gravel, with concrete debris, burnt wood ash					1315	
				SAND - light brown, fine to medium; micaceous sand; oil on outside of split spoon						
				SAND - black, fine to medium; trace coarse at top; oil saturated						
				SAND - black, fine to medium; oil saturated, 12 inches trace fine gravel						
				SILT - brown, with organic lens						
				SAND AND SILT - brown, fine; laminated; 10" of slough at top						
				END OF HOLE - HNu measured up to 15 inside the hole, falls to 0 at top						
				2.5 feet of heave at bottom of hole						
				hole back filled upon completion.						
				betonite seal 9.3' - 10.0'						
				betonite also added below						

SUBTERRANEAN
DRILLING CONTRACTOR JC
DRILLER

BY SHE
DATE 2-10-86
CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-3803</div>
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 lb. SAFETY HAMMER			
WATER LEVEL		10"	11'
TIME		1440	1500
DATE		2-10-86	2-10-86
START TIME		1420	
FINISH TIME		1520	
DATE		2-10-86	

DATUM		SURFACE		ELEVATION		- 18'		CASING DEPTH							
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	HNu	CH4	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION					
										GRASS COVER					
										HNu BACKGROUND = "B"					
										CLASSIFICATION					
										DESCRIPTION					
										FILL					
										COBBLES OR CONCRETE in upper few feet					
										SAND - brown and reddish yellow; fine, some silt glass and brick fragments, iron staining					
										DEBRIS - gypsum board, asbestos, concrete fragments sand, iron staining 1440					
										SILTY SAND - brown, fine to medium; glass fragments 1450					
										SAND - black, fine to medium; oil saturated					
										SAND - black, fine to medium; oil saturated (possibly diesel); thin silt laminations, trace shell fragments 1550					
										SAND - black, fine to medium; oil saturated					
										SANDY SILT - dark brown, fine to medium; laminated, trace organic 1510					
										SAND - black, fine to medium; oil saturated; some silt in thin beds up to 6", brown, poorly laminated					
										END OF HOLE 16.5', HNu 4 in open hole, little cuttings from hole, probable voids bentonite seal 8.8-9.2' sloughed to seal, backfilled with sand and gravel to surface					

DRILLING CONTRACTOR SUBTERRANEAN
 DRILLER JC

BY SHE
 DATE 2-10-86 CHD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3850
LOCATION SKETCH 	PROJECT NAME METRO ETS - 7		
DRILLING METHOD: HOLLOW STEM AUGER			
SAMPLING METHOD: STANDARD PENETRATION TEST, 140 lb. SAFETY HAMMER			
WATER LEVEL		9.5'	11.5'
TIME		1545	1610
DATE		2/10/86	2/10/86
START TIME		1530	1630
DATE		2/10/86	2/10/86
DATUM SURFACE		ELEVATION 16'	
CASING DEPTH			

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	HNU METHANE	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
									CLASSIFICATION	DESCRIPTION
						0			GRASS COVER	
									HNU BACKGROUND = "B"	
									FILL	
1	SPT	2.0	4 3/2	18	B				SAND - brown, fine to coarse; some fine to coarse gravel	
		3.5		6	-				SILTY SAND - brown with iron staining, fine to coarse; some gravel	1540
2	SPT	4.5	4 1/1	18	B	5			SAND AND GRAVEL - brown, iron staining, medium to coarse sand; some gravel	1545
		6.0		6	-					
3	SPT	7.0	7 7/9	18	1				SAND - brown with iron staining, fine to coarse, some sandstone fragments; trace fine gravel	
		8.5		12	-				SAND - black, fine to medium; shell fragments, oily	1550
									HNU 1 PPM in hole	
4	SPT	9.5	3 4/7	18	4-6	10			SAND - black, fine to coarse; oil saturated; discrete light brown silt band, 1 inch; grades to silty fine sand at base	1555
		11.0		18	-					
5	SPT	12.0	1 2/3	18	2				SAND - black, fine to coarse; oil saturated, top 10 inches; becomes silty at base	
		13.5		18	-				SILT - medium brown; with organic lenses and laminations	1600
									INTERBEDDED	
6	SPT	14.5	1 6/8	18		15			SAND AND SILTY SAND - dark brown, fine to medium; interbedded and interlaminated; oily at top	
		16.0		18						
					4.5					
					0				END OF HOLE	
									bentonite seal 8.3 - 8.8	
									hole sloughed to 9.0'	
									backfilled with cuttings, surface material to surface.	
						20				

DRILLING CONTRACTOR SUB IERKANEAN JC
 DRILLER
 BY SHE DATE 2-10-86 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-3900
LOCATION SKETCH 	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER			
DATUM SURFACE		ELEVATION 16'	
CASING DEPTH		START TIME 0815 FINISH TIME 0930	
WATER LEVEL 11'		DATE 2-11-86	
TIME 0850		DATE 2-11-86	
DATE 2-11-86		DATE 2-11-86	

SUBTERRANEAN
 DRILLING CONTRACTOR **CW**
 DRILLER
 BY **SHE**
 DATE **2-11-86**
 CHKD BY **SH**

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES		INCHES DRIVEN RECOVERED	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
			14	18						CLASSIFICATION	DESCRIPTION
										SURFACE CONDITION GRASS COVER H_{Nu} BACKGROUND = "B"	
										CLASSIFICATION FILL DESCRIPTION SAND - brown, fine to medium; some fine gravel	
1	SPT	2.5	14	17	B					SAND - brown, fine to coarse; little gravel; glass, wood, other debris; iron staining; odor noticed, vanilla or solvent 0840	
2	SPT	5.0	6	18	B					SAND - brown, fine to coarse; some gravel, fine to coarse; cobbles; glass and other debris; iron stain 0850	
3	SPT	2.5	7	18	B					SILTY SAND - brown, iron stain; silty in beds; charcoal, glass debris; noticeable odor, solvent possibly; contact at base 0855	
4	SPT	10.0	5	18	B					SAND - dark gray, fine to medium; red and black volcanic clasts; trace silt; odor of vanilla, possible solvent 0910	
5	SPT	12.5	1/2	18	-					INTERBEDDED SILT AND SAND - dark gray brown; poorly laminated; organic silt lenses; plant fragments; sand, dark gray brown, fine to medium grained; odor noticeable 0920	
6	SPT	15.0	1	18	-					INTERBEDDED SILT AND SAND - dark gray brown, poorly laminated; sand, dark gray, fine to medium; odor faint or gone 0930	
										END OF HOLE bentonite seal 8.5 - 9.0', hole sloughed below seal, backfilled with cuttings	
										NOTE - H _{Nu} is acting up. I do not trust any of its readings.	

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION				JOB NO. 8546		CLIENT URS/METRO		BORING NO. 7-3950	
LOCATION SKETCH				PROJECT NAME METRO ETS - 7					
				DRILLING METHOD: HOLLOW STEM AUGER					
				SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES					
				WATER LEVEL		8.0'		13.1'	
				TIME		1040		1050	
				DATE		2-11-86		2-11-86	
DATUM SURFACE				ELEVATION		16'		CASING DEPTH	
				SURFACE CONDITION		GRASS COVER			
				CLASSIFICATION		FILL			
				DESCRIPTION		SILTY SAND - brown, fine to medium; concrete fragment and wood debris 1030			
				DESCRIPTION		SILTY SAND - as above; abundant wood debris, wire 1040			
				DESCRIPTION		SAND - dark brown, medium to coarse; brick, glass fragments; trace fine gravel 1050			
				DESCRIPTION		SAND - dark gray, fine to medium; trace coarse, dark gray, red volcanic clasts, quartz; very faint oil odor; wet			
				DESCRIPTION		SILT- brown, sandy in beds, poorly laminated, organic laminations; wood fragments and plant fibers 1105			
				DESCRIPTION		SILT - as above; woody fragments at base; top 6 inches sand - as above; faint sulphur odor			
				END OF HOLE: Total depth 16.5 feet inside auger; bentonite seal 9.5 - 10.0', hole sloughed below seal, backfilled with cuttings to surface; total depth 1/2' less than planned, probable heave in sand					

SUBTERRANEAN
DRILLING CONTRACTOR CW
DRILLER

BY SHE
DATE 2-11-86
CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 of 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-4000</div>
LOCATION SKETCH 	PROJECT NAME METRO ETS-7 DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		10'	14.5'
TIME		1307	1356
DATE		2-11-86	2-11-86
START TIME		1140	1400
DATE		2-11-86	2-11-86

DATUM		SURFACE		ELEVATION		16'		CASING DEPTH				2-11-86		2-11-86	
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	HNu	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION						
									GRASS COVER						
CLASSIFICATION									DESCRIPTION						
0									FILL						
									SILTY SAND - brown, fine to medium; little fine to coarse gravel						
1									SAND AND GRAVEL - brown, iron staining, medium to coarse; gravel fine to coarse; glass and other debris						
2									INTERBEDDED SAND AND SILT - brown and gray, fine to medium; wood debris, plastic debris						
3									SAND AND DEBRIS - black, fine to medium; paper; wire debris						
4									SAND - black, fine to medium; some silt; last 6 in. of sample wood fibre, straw, concrete debris						
5									INTERBEDDED SAND AND SILT - dark gray to dark brown, fine to medium; poorly laminated; moist; wire in tip, fibrous debris at top						
20%									END OF HOLE						
									bubbling sound from hole, methane reading off 4% scale, variable, 20% ± at base of hole. Pulled out of hole, hole sloughed to 10', bentonite seal 9.0 - 10.0', used one full bucket, backfilled hole with cuttings, bentonite to surface						

SUBTERRANEAN
 DRILLING CONTRACTOR **CW**
 DRILLER
 BY **SH**
 DATE **2-11-86**
 CHKD BY

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SHEET 1 OF 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4037
LOCATION SKETCH 	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 150 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		11'	16'
TIME		1520	1540
DATE		2-11-86	2-11-86
DATUM SURFACE		ELEVATION 16'	
CASING DEPTH		2-11-86 2-11-86	

DRILLING CONTRACTOR SUBTERRANEAN
 DRILLER C W

BY SHE
 DATE 2-11-86 CHKD BY SH

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	CUT	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
									CLASSIFICATION	DESCRIPTION
						0			GRASS COVER	
									HNU BACKGROUND <1.0	
									FILL	
									SAND - brown, fine to coarse; some gravel; fine to coarse; debris	
1	SPT	2.5	10	18	1				SAND - brown, medium to coarse; some gravel, fine to coarse; concrete at tip brick and other debris	1455
2	SPT	5.0	16	18	1	5			SAND - brown, medium to coarse; trace gravel, fine; trace silt; brick fragments and other debris	1500
3	SPT	7.5	10	7	2				SAND AND GRAVEL - brown, fine to coarse; brick and shell fragments; other debris shoe refusal at 8.0 feet, auger drilled beyond	1505
4	SPT	10.0	4	18	2	10			SAND AND GRAVEL - dark brown, medium to coarse; wood debris	1525
5	SPT	12.5	3	18	10				INTERBEDDED SAND AND SILTY SAND - dark gray, fine to coarse; fine beds; poorly laminated; trace fine gravel	1530
6	SPT	15.0	5	18	3	15			SILT - light brown and gray beds; some fine sand at top; poorly laminated; woody debris	1540
7	SPT	17.5	2	18					SANDY SILT - dark brown, fine; trace woody debris; fine to medium sand at tip	1550
8	SPT	19.0	6	18					SAND - dark gray, fine to medium; volcanic clasts and quartz; trace silt	1600

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SHEET 1 OF 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4095
LOCATION SKETCH 	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		11'	15.5'
TIME		0912	0943
DATE		2-12-86	2-12-86
START TIME		0830	
FINISH TIME		1000	
DATE		2-12-86	

DATUM SURFACE				ELEVATION 17'		CASING DEPTH		START DATE	FINISH DATE
SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 8 INCHES	INCHES DRIVEN	INCHES RECOVERED	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION
SURFACE CONDITION GRASS COVER									
HNu BACKGROUND <1.0 ("B")									
FILL									
					0				SAND - brown, medium; some gravel
1	2.0	22	18	1					SAND - brown, fine to coarse; some fine gravel; brick, glass, metal fragments 0900
	SPT 3.5	21	13	8					
2	4.5	5	18	1					SAND - mottled brown, dark yellow, fine to coarse; some fine gravel; abundant glass 0910
	SPT 6.0	3	6	-					
3	7.0	1	18	1					SAND - as above; glass, metal and possible gypsum wallboard debris; odor 0915
	SPT 8.5	1	10	-					
4	9.5	11	18	12					SAND - as above; brick
	SPT 11.0	24	13	-					
					10	WL 0912			SAND - dark gray, fine to medium; trace silt; volcanic and quartz clasts; wet 0930
5	12.0	6	18	8		SEAL			SAND - as above; 2 inch silt interbed at tip; trace gravel; poorly laminated
	SPT 13.5	5	14	-					
6	14.5	2	18	8					SAND - dark brown, fine to coarse; top 6 inches
	SPT 16.0	5	18	-					SILT - brown; poorly laminated, with occasional organic laminations 0945
					15				
7	17.0	6	18	3					INTERBEDDED SAND AND SILT - dark gray, fine to medium; laminated; moist 0955
	SPT 18.5	11	18	-					
					20				

SUBTERRANEAN
 DRILLING CONTRACTOR CW
 DRILLER
 BY SHE
 DATE 2-12-86
 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

sheet 2 of 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/Metro	BORING NO. 7-4095
LOCATION SKETCH	PROJECT NAME METRO ETS-7		
	DRILLING METHOD: HOLLOW STEM AUGER		
	SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES		
	WATER LEVEL	11'	15.5'
	TIME	0912	0943
	DATE	2-12-86	2-12-86
			START TIME 0830
			FINISH TIME 1000
			DATE 2-12-86
			DATE 2-12-86

DATUM SURFACE					ELEVATION	CASING DEPTH		SURFACE CONDITION	
SAMPLE NO	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION
				11 1/4	20				
8	SPT	20.5	3	18				INTERBEDDED SILT AND SAND - dark gray; bedded and laminated	1005
		22.0	6	18				END OF HOLE	
					25			measured depth at end of drilling 20.5';	
								bentonite seal placed at 11.5-12.0';	
								hole sloughed below seal, backfilled with	
								cuttings above seal to surface	

DRILLING CONTRACTOR SUBTERRANEAN
 DRILLER CW

BY SHE
 DATE 2-12-86
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LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4150
LOCATION SKETCH 	DRILLING METHOD: HOLLOW STEM AUGER		
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
WATER LEVEL		12.5'	16'
TIME		1106	1143
DATE		2-12-86	2-12-86
START TIME		1015	
FINISH TIME		1200	
DATE		2-12-86	

DATUM SURFACE					ELEVATION 18'		CASING DEPTH		START DATE	FINISH DATE
SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION	TIME
					0			SURFACE CONDITION: GRASS COVER		
								HNU BACKGROUND <1.0 ("B")		
								FILL		
1	2.0	50	6	B						
SPT	3.5		14	-				SAND - brown, fine to medium; trace fine gravel; brick, glass, concrete; bit refusal in first 6 inches, rest of recovery is slough		1050
2	4.5	18	18	B	5			SAND - brown, fine to medium; trace gravel; brick, concrete		1105
SPT	6.0	20	8	-						
3	7.0	14	18	B				SAND - as above; brick		
SPT	8.5	12	5	-						
								NOTE: bit chattering at 9'		
4	9.5	6	18	2	10			SAND - dark gray, fine medium; trace fine gravel volcanic clasts, quartz; wet; napthaodor; glass fragment		1120
SPT	11.0	9	14	1						
5	12.0	16	18	25				INTERBEDDED SAND AND SILT - dark gray, fine to medium; fining toward tip; plant debris in silt		1130
SPT	13.5	12	10	-						
								NOTE: petroleum odor noted at 14'		
6	14.5	9	18	2	15			SILT - brown; laminated; some woody debris and organic laminae; trace clay; naptha odor, probably from slough		1140
SPT	16.0	12	10	-						
7	17.0	5	18	8				SILT - brown; laminated; woody debris; root tubes; organic rich laminations; trace of sand and clay laminations		1150
SPT	18.5	8	23	-						
8	19.5	2	18	8	20			SILT - brown; almost fine sand; trace of plant debris, top 12 inches		
SPT	21.0	3	8	-						

SUBTERRANEAN
 DRILLING CONTRACTOR CW
 DRILLER
 BY SHE DATE 2-12-86 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 2

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION				JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4250	
LOCATION SKETCH				DRILLING METHOD: HOLLOW STEM AUGER			
				SAMPLING METHOD: STANDARD PENETRATION TEST			
				140 LB. SAFETY HAMMER DROPPED 30 INCHES			
DATUM SURFACE		ELEVATION 16'		CASING DEPTH		START TIME	FINISH TIME
						11'	15'
						1415	1447
						2-12-86	2-12-86
						1345	1510
						DATE	DATE
						2-12-86	2-12-86

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	CUTtings	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
									CLASSIFICATION	DESCRIPTION
						0			GRASS COVER	
									HNU BACKGROUND < 1.0 ("B")	
									FILL	
									SAND - brown, fine to medium; trace silt; some fine to coarse gravel	
1	2.5	14	18	8					GRAVEL AND SAND - brown to gray, fine and coarse; brick fragments	1405
	SPT 4.0	20	26	8	1					
2	5.0	12	18	1		5			SAND - dark gray, fine to coarse; some fine gravel; iron staining; glass, concrete	1415
	SPT 6.5	21	15	14	-					
3	7.5	6	18	1	0				SAND - dark gray, fine to coarse; some silt at top; trace fine gravel; volcanic and quartz grains; wet	1420
	SPT 9.0	4	4	14	-					
4	10.0	7	18	1		10			SAND - dark gray, fine to medium; fining toward tip; trace gravel; volcanic and quartz grains; indistinct laminations at tip; wet	1430
	SPT 11.5	10	12	18	-					
5	12.5	1	18	1					SILT - gray; trace fine sand; little wood debris, organic laminations; laminated	1440
	SPT 14.0	1	5	18	-					
6	15.0	2	18	1		15			SAND - dark gray, fine; trace silt at tip; volcanic and quartz grains	1450
	SPT 16.5	5	6	16	-					
7	17.5	3	18	1	.5				SAND - gray, fine; some silt laminations; laminated; poorly sorted	
	SPT 19.0	5	5	18	-					

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 DRILLER
 BY SHE
 DATE 2-12-86
 CHKD BY SH

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LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION				JOB NO. 8546 CLIENT URS/METRO		BORING NO. 7-4300	
LOCATION SKETCH				PROJECT NAME METRO ETS-7			
				DRILLING METHOD: HOLLOW STEM AUGER			
				SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES			
DATUM SURFACE		ELEVATION 14.0'		CASING DEPTH		START TIME	FINISH TIME
						0900	1030
						DATE	DATE
						2-13-86	2-13-86
						2-13-86	2-13-86

SAMPLE NO	SAMPLE DEPTH	BLOWS PER 8 INCHES	INCHES DRIVEN RECOVERED	HN ₄	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
									CLASSIFICATION	DESCRIPTION
						0			FILL	
									SAND - dark brown, fine to coarse; some fine to coarse gravel; glass	
1	2.5	12	18	1					SAND - dark brown, fine to coarse; some fine gravel; yellow clinker, glass, wood, brick	0910
	5.0	48	23	18						
2	5.0	18	18	1		5			SAND AND GRAVEL - black, fine to coarse; wood debris, other material; wet	0925
	6.5	11	7	5						
3	7.5	7	18	1					SAND - dark gray, fine to medium; trace of fine gravel; trace of plant debris	0935
	9.0	11	14	16						
4	10.0	2	18	1		10			SILTY CLAY - brown, laminated; little clay in bottom 6"; wood debris and organic laminations; root burrowing in last 6 inches below 1/2 inch organic horizon	0950
	11.5	3	5	18						
5	12.5	2	18	1					SANDY SILT - dark gray, fine; trace clay; laminated; volcanic clasts; abundant plant debris	1000
	14.0	3	8	12						
6	15.0	9	18	1		15			SILTY SAND - dark gray, fine grained; laminated; plant debris at top	1010
	16.5	22	9	18						
7	17.5	-	18	1					SAND - dark gray, fine to medium; trace silt laminations; volcanic and quartz grains	
	19.0	-	18	-						
						20			END OF HOLE - hole sloughed to 11 feet, bentonite seal at 11.0 - 11.5 feet, backfilled with cuttings; total depth measured at 14' inside auger	

DRILLING CONTRACTOR: JUD ILSKY/WEA/H
 DRILLER: CW
 BY: SHE
 DATE: 2-12-86
 CHECKED BY: SH

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SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546 CLIENT URS/METRO	BORING NO. 7-4350
LOCATION SKETCH 	PROJECT NAME METRO ETS-7 DRILLING METHOD: HOLLOW STEM AUGER	
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES		
WATER LEVEL NOT MEASURED	START TIME 1100	FINISH TIME 1300
DATE	DATE 2-13-86	DATE 2-13-86

DATUM		SURFACE		ELEVATION		13'		CASING DEPTH		2-13-86		2-13-86	
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	HN ₄	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION
								0			GRASS COVER		
											FILL		
1	SPT	2.5 4.0	3 12	18 7	18 6	-	-				SAND - dark brown, fine to coarse; trace fine gravel; ceramic, glass, brick, clinker debris		1125
2	SPT	5.0 6.5	2 2	18 14	-	-	-	5			CLAYEY SILT - gray, mottled; plant debris and organic laminations; root traces; bioturbation; glass at top		1140
3	SPT	7.5 9.0	6 10	18 18	-	-	-				SAND - dark gray, fine to medium; laminated; trace fine gravel; volcanic and quartz grains; some shells possible		1155
4	SPT	10.0 11.5	1 1	18 18	-	-	-	10		SEAL	CLAYEY SILT - brown, laminated; abundant plant debris and organic laminations; mottled, probable root turbations		1205
5	SPT	12.5 14.0	3 4	18 18	-	-	-				SANDY SILT - gray to brown at top; little clay and abundant organic laminations at top; grading to fine sandy silt at base; glass fragment in middle		1215
6	SPT	15.0 16.5	2 2	18 18	-	-	-	15			SAND AND SILT - gray and brown, fine to medium; poorly laminated; volcanic and quartz grains; silt forms discrete layer parallel to core barrel; glass		1230
7	SPT	16.5 18.0	6 7	18 13	18 18	-	-				SAND AND SILT - dark gray, fine to medium; laminated; silt layer parallel to barrel, possibly scrapped off hole side on way down		1240
								20			END OF HOLE - hole sloughed to 11 feet, bentonite seal 10.5 - 11.0 feet, backfilled with drill cuttings to surface		

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 DRILLER

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 DATE 2-13-86
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1 of 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546 CLIENT URS/METRO	BORING NO. 7-4400																					
LOCATION SKETCH 	DRILLING METHOD: HOLLOW STEM AUGER																						
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">WATER LEVEL</td> <td style="width: 15%;">10.7</td> <td style="width: 15%;">10.8</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 10%;">START TIME</td> <td style="width: 10%;">FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>1520</td> <td>1530</td> <td></td> <td></td> <td>1400</td> <td>1530</td> </tr> <tr> <td>DATE</td> <td>2-13-86</td> <td>2-13-86</td> <td></td> <td></td> <td>DATE</td> <td>DATE</td> </tr> </table>	WATER LEVEL	10.7	10.8			START TIME	FINISH TIME	TIME	1520	1530			1400	1530	DATE	2-13-86	2-13-86			DATE	DATE		
WATER LEVEL	10.7	10.8			START TIME	FINISH TIME																	
TIME	1520	1530			1400	1530																	
DATE	2-13-86	2-13-86			DATE	DATE																	
DATUM SURFACE ELEVATION 12.5'	CASING DEPTH DATE 2-13-86 DATE 2-13-86																						

DRILLING CONTRACTOR SUBTERRANEAN
 DRILLER CM

SAMPLE NO	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	CUT	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
									CLASSIFICATION	DESCRIPTION
						0			GRASS COVER HNU UNAVAILABLE	
									FILL	
									SAND - brown, gray, fine to medium; some fine to coarse gravel	
1	SPT	2.5 4.0	1 2	18 4					SAND - brown, fine to medium; trace silt; brick, glass; charcoal at tip 1440	
2	SPT	5.0 6.5	6 8	18 18		5			SILTY SAND - brown, fine to coarse; trace gravel; glass 1455	
3	SPT	7.5 9.0	5 7	18 4					SAND - dark gray, fine to medium; trace of plant debris; poorly laminated; volcanic grains 1500	
4	SPT	10.0 11.5	3 3	18 3		10			CLAYEY SILT - light brown; blocky structure; laminated; abundant organic lamination; plant fragments 1530	
5	SPT	12.5 14.0	1 1	18 1					SANDY SILT - gray, fine; laminated; plant fragments and laminations; soft sediment deformation 1545	
6	SPT	15.0 16.5	2 5	18 8		15			SAND - dark gray, fine to medium; trace silt in laminations; volcanic and quartz grains plant debris	
7	SPT	16.5 18.0	6 13	18 15					SAND - as above, top 12 inches 1555	
									SILTY SAND - dark gray, fine; trace of wood fragments	
END OF HOLE - total depth measured at 14.6 inside auger; hole sloughed to 11.5', bentonite seal 11.0' - 11.5', backfilled with cuttings to										

BY SHE DATE 2-13-86 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546 CLIENT URS/METRO PROJECT NAME METRO ETS-7	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-4450</div>															
LOCATION SKETCH 	DRILLING METHOD: HOLLOW STEM AUGER SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">WATER LEVEL</td> <td style="width: 20%;">6.5'</td> <td style="width: 20%;">10.4'</td> <td style="width: 10%;">START TIME</td> <td style="width: 10%;">FINISH TIME</td> </tr> <tr> <td>TIME</td> <td>0900</td> <td>0950</td> <td>0830</td> <td>1015</td> </tr> <tr> <td>DATE</td> <td>2-14-86</td> <td>2-14-86</td> <td>DATE</td> <td>DATE</td> </tr> </table>			WATER LEVEL	6.5'	10.4'	START TIME	FINISH TIME	TIME	0900	0950	0830	1015	DATE	2-14-86	2-14-86	DATE	DATE
WATER LEVEL	6.5'	10.4'	START TIME	FINISH TIME													
TIME	0900	0950	0830	1015													
DATE	2-14-86	2-14-86	DATE	DATE													
DATUM SURFACE ELEVATION 11.5' CASING DEPTH																	

SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	HN ₄	CH ₄	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	CLASSIFICATION	DESCRIPTION
							0			GRASS COVER		
										H _{N4} UNAVAILABLE		
										FILL		
										SAND - brown, fine to coarse; little fine to coarse gravel; brick fragments		
1	2.0	8	4	18						SAND - brown, fine to coarse; some fine to coarse gravel; concrete and crushed rock		0855
	SPT 3.5	4	4	4								
2	4.5	4	11	18			5			SILTY SAND - brown, fine to medium; some fine gravel; rusty stain in places; black and wet at tip; glass		0905
	SPT 6.0	26	14									
3	7.0	4	2	18						SAND - dark gray, fine to medium; volcanic and quartz grains; minor iron stain		
	SPT 8.5	4	18							SILT - gray; some fine sand; laminated; plant debris; laminations		0915
4	9.5	2	2	18			10			CLAYEY SILT - brown; laminated; blocky structure; abundant plant debris		0930
	SPT 11.0	2	18									
5	12.0	1	5	18						SANDY SILT - gray; laminated; trace of plant debris; clayey at top; soft sediment deformation, mud diaper at top		0945
	SPT 13.5	5	18									
6	14.5	1	2	18			15			SILTY SAND - dark gray, fine to medium; laminated; sand only at tip; glass; cedar chunk		1000
	SPT 16.0	5	18									
7	16.5	8	14	18						SAND - dark gray, fine; some silt in places; volcanic, quartz grains		1010
	SPT 18.0	13	18									
										END OF HOLE - total depth measured inside auger 15.3 feet; hole backfilled with cuttings to surface		
							20					

DRILLING CONTRACTOR SUBTERRANEAN
 DRILLER CW

BY SHE
 DATE 2-14-86
 CHKD BY SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546 CLIENT URS/METRO	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-4500</div>
LOCATION SKETCH 	PROJECT NAME METRS ETS-7 DRILLING METHOD: HOLLOW STEM AUGER	
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES		
WATER LEVEL: 10.0' 11.3'		START TIME: 1045
TIME: 1140 1200		FINISH TIME: 1200
DATE: 2-14-86 2-14-86		DATE: 2-14-86 2-14-86

DATUM SURFACE				ELEVATION 11.5'		CASING DEPTH		2-14-86 2-14-86	
SAMPLE NO.	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN RECOVERED	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICATION	DESCRIPTION	
SURFACE CONDITION: GRASS COVER HNU UNAVAILABLE									
CLASSIFICATION: FILL									
SAND - brown; fine to medium; some fine to coarse gravel							1110		
1	2.5	10	18	0			SAND - brown, rusty staining, fine to medium; glass, brick, other debris, aluminum, wire		
SPT	4.0	4	3						
2	5.0	7	18	5			SAND - dark gray, fine to medium; trace of plant debris; volcanic and quartz grains		
SPT	6.5	7	10						
3	7.5	1	18	10			SAND - as above; trace fine gravel; trace plant debris		
SPT	9.0	2	18						
4	10.0	1	18	15			CLAYEY SILT - brown; laminated; abundant organic debris and laminae		
SPT	11.5	2	18						
5	12.5	2	18	20			SILT - gray, well laminated; trace organic debris		
SPT	14.0	2	18						
6	15.0	8	18	25			INTERBEDDED SAND AND SILT - dark gray, fine to medium; laminated; volcanic and quartz grains; trace plant debris		
SPT	16.5	12	18						
7	16.5	3	18	30			SAND - dark gray, fine; poorly laminated; volcanic and quartz grains		
SPT	18.0	4	18						
END OF HOLE - total depth 14.1 feet measured inside auger. 4 feet of heave. Hole backfilled with cuttings to surface									

DRILLING CONTRACTOR: SUBTERRANEAN
 DRILLER: CW

BY: SHE
 DATE: 2-14-86
 CHKD BY: SH

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546 CLIENT URS/METRO	BORING NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">7-4545</div>
LOCATION SKETCH 	PROJECT NAME METRO ETS-7	
	DRILLING METHOD: HOLLOW STEM AUGER	
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES		
WATER LEVEL 11.0' 11.2'		START TIME 1400
TIME 1425 1435		FINISH TIME 1500
DATE 2-14-86 2-14-86		DATE 2-14-86 2-14-86
DATUM SURFACE ELEVATION 11.5'		CASING DEPTH

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 8 INCHES	INCHES DRIVEN	INCHES RECOVERED	CH 4	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
										CLASSIFICATION	DESCRIPTION
										SURFACE CONDITION GRASS COVER HNU UNAVAILABLE	
										CLASSIFICATION FILL	
										DESCRIPTION SAND - brown, fine to coarse; some fine to coarse gravel	
1	SPT	2.5	4	15	18	4	0			SAND - brown, fine to coarse; plant debris; brick 1410	
2	SPT	5.0	2	9	18	0	5			Driller reports thinking he was on metal; cuttings are sand as above	
3	SPT	7.5	10	8	18	12	10			SAND - dark gray, fine to medium; trace fine gravel; some silt, rust stain; glass; plant debris; brick fragments 1420	
4	SPT	10.0	2	2	18	18	10			CLAYEY SILT - brown; laminated; abundant plant debris and organic laminae; sandy to top 1430	
5	SPT	12.5	1	1	18	18	15			SILT - gray; laminated; wood and other plant debris 1440	
6	SPT	15.0	8	12	18	18	15			SAND - dark gray, fine; trace silt; volcanic and quartz grains	
7	SPT	16.5	4	16	18	18	15			SAND - as above	
										END OF HOLE - total depth measured at 16.9 feet inside auger. Hole backfilled with cuttings to surface	

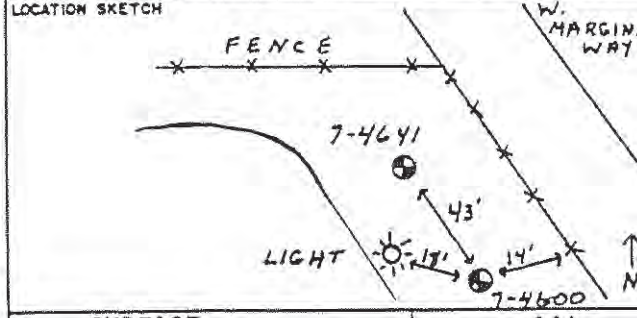
SUBTERRANEAN
 DRILLING CONTRACTOR **CW**
 DRILLER

BY **SHE**
 DATE **2-14-86**
 CHKD BY **SH**

HONG CONSULTING ENGINEERS, INC.

SHEET 1 OF 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION	JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4600
LOCATION SKETCH		PROJECT NAME METRO ETS -7	



DRILLING METHOD: HOLLOW STEM AUGER			
SAMPLING METHOD: STANDARD PENETRATION TEST			
140 LB. HAMMER DROPPED 30 INCHES			
WATER LEVEL	10.9'	15	
TIME	0845	0910	
DATE	2-17-86	2-17-86	
START TIME			0800
FINISH TIME			0930
DATE			DATE
			2-17-86 2-17-86

DATUM SURFACE	ELEVATION 14'	CASING DEPTH	
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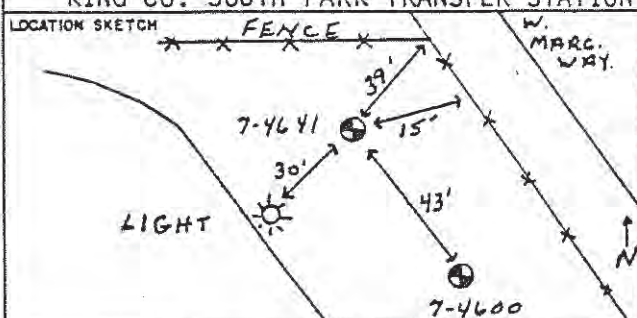
SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN INCHES RECOVERED	CUTtings	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CONDITION	
									CLASSIFICATION	DESCRIPTION
									GRASS COVER	
									Hnu UNAVAILABLE	
									FILL	
									SAND - brown, fine to coarse; some fine to coarse gravel	
1	SPT	2.0	3	18					SAND - brown, iron staining, fine to coarse; trace fine gravel; wire, other debris 0830	
		3.5	2	7						
2	SPT	4.5	1	18					SAND - as above; glass, other debris 0835	
		6.0	1	4						
3	SPT	7.0	5	18					SAND - dark gray, fine to medium; volcanic and quartz grains; wet 0840	
		8.5	6	8						
4	SPT	9.5	1	18					SILT AND SAND INTERBEDDED - dark gray to gray; fine to medium; laminated; trace of plant debris; faint fuel oil odor 0850	
		11.0	1	18						
5	SPT	12.0	4	18					CLAYEY SILT - brown; laminated; blocky structure; abundant plant matter; trace fine sand at top; tight, moist 0900	
		13.5	1	18						
6	SPT	14.5	1	18					SILT - gray; laminated; plant stems abundant 0910	
		16.0	1	18						
7	SPT	17.5	3	18					SILT - as above; fine to medium sand bed at base 0920	
		19.0	3	18						
									END OF HOLE: Total depth measured as 15.5 feet inside auger; hole bottom mushy, but no water table; hole backfilled with cuttings to surface	

DRILLING CONTRACTOR **CW**
 DRILLER
 BY **SHE** DATE **2-17-86** CHKD BY **SH**

SUBTERRANEAN

HONG CONSULTING ENGINEERS, INC.

1 1

LOCATION OF BORING KING CO. SOUTH PARK TRANSFER STATION		JOB NO. 8546	CLIENT URS/METRO	BORING NO. 7-4641	
LOCATION SKETCH 		PROJECT NAME METRO ETS-7			
DRILLING METHOD: HOLLOW STEM AUGER					
SAMPLING METHOD: STANDARD PENETRATION TEST 140 LB. SAFETY HAMMER DROPPED 30 INCHES					
WATER LEVEL			11'	10.7'	15.7'
TIME			1020	1055	1105
DATE			2-17-86	2-17-86	2-17-86
START TIME			1000		
FINISH TIME			1130		
DATE			2-17-86		
DATE			2-17-86		

DATUM SURFACE ELEVATION 14' CASING DEPTH

SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES DRIVEN	INCHES RECOVERED	HNu	DEPTH IN FEET	PIEDOMETER	GRAPHIC LOG	SURFACE CONDITION	
										CLASSIFICATION	DESCRIPTION
										GRASS COVER	
										HNu BACKGROUND = "B"	
										FILL	
1	SPT	2.5	17	18	0		0			SAND - brown, some iron staining, fine to medium ; some fine to coarse gravel; wire, other debris; dry	1030
2	SPT	5.0	6	18	-		5			SAMPLE TOO SMALL TO PROPERLY LOG - one large chunk of what appears to be pumice, plus sand debris	1040
3	SPT	7.5	3	18	B					SAND - dark gray, fine to medium; trace of plant debris; volcanic quartz grains; wet	1045
4	SPT	10.0	1	18	B		10			SAND - as above; glass and small bit of fill incorporated into middle of sample; wet	1050
5	SPT	12.5	1	18	B					CLAYEY SILT - gray with black organic laminations; silt at top, laminated; at tip blocky with abundant plant fibers; organic odor; moist	1100
6	SPT	15.0	3	18			15			INTERBEDDED SILT AND SAND - gray, laminated; fine; trace of plant debris; wet	1115
7	SPT	18.5	2	18						SANDY SILT - gray, laminated; fine; trace of plant debris; wet	1125
							20			END OF HOLE: Total depth 16.6 feet inside auger; hole backfilled to surface with cuttings	

DRILLING CONTRACTOR SUBTERRANEAN CW
 DRILLER
 BY SHE DATE 2-17-86 CHKD BY SH

ALN-493

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

HOLT DRILLING, INC.

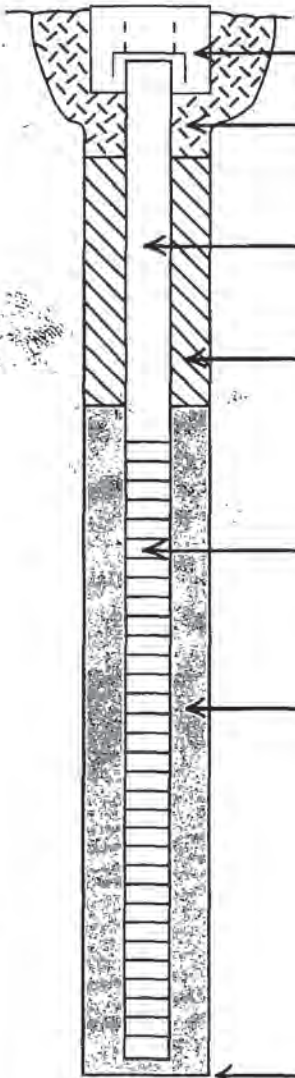
24-4E 29K

Resource Protection Well Report

211261

Project Name South Park Home Station
 Well Identification # ALN493
 Drilling Method 6" M/R
 Driller Jon Bennett
 License # 2818

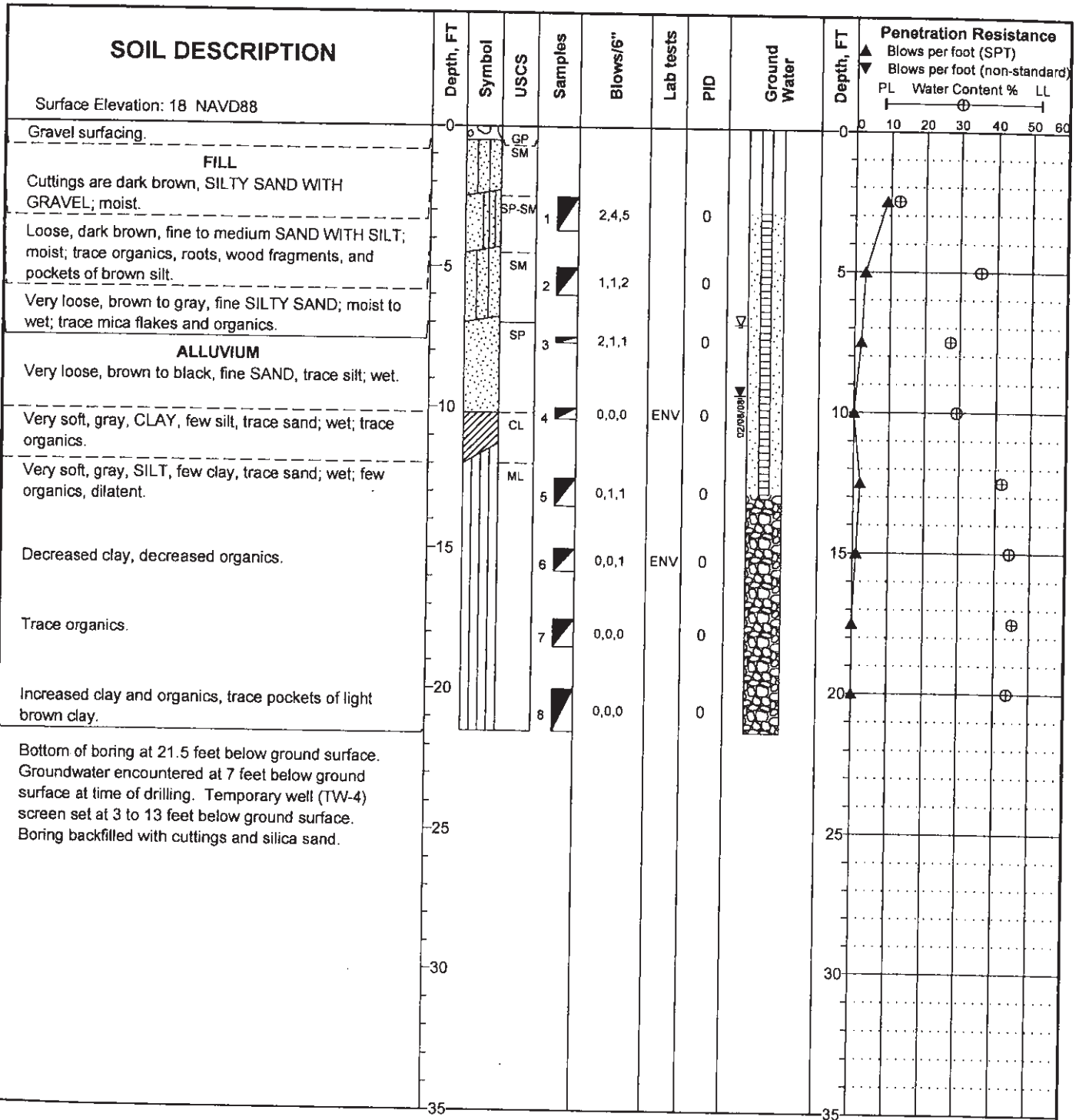
Date 10-20-06
 County King NW 1/4 SE 1/4
 Section 29 T. 24N R. 4E
 Street Address 7th & Riverside Ave
 Start Card R 70562
 Consulting Firm SPU

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	<p>MONUMENT TYPE: <u>FLUSH</u></p> <p>CONCRETE SURFACE SEAL <u>Bondcrete Chips</u> <u>12.5ft.</u></p> <p>PVC BLANK <u>2" x 15'</u></p> <p>BACKFILL <u>2.5ft.</u> TYPE: <u>10-20 Silica Sand</u></p> <p>PVC SCREEN <u>2" x 10'</u> SLOT SIZE: <u>.20</u> TYPE: <u>Schedule 40 Flux Thread</u></p> <p>GRAVEL PACK <u>10 ft.</u> MATERIAL: <u>10-20 Silica Sand</u></p> <p>WELL DEPTH <u>25'</u></p>	<p>0 - 2 ft. <u>asphalt</u></p> <p>2" - 3 ft. <u>crushed rock backfill</u></p> <p>3' - 15 ft. <u>soft silty sate</u></p> <p>15' - 25 ft. <u>med to size slack sand 40 bearing</u></p>
		<p>ft. RECEIVED</p> <p>NOV 01 2006</p> <p>REMARKS DEPT. OF ECOLOGY</p>

Signature Jon Bennett

Historical Kenyon Street Bus Yard Borings

B-4



S. YARD GPJ SEATTLE PUM. GPT 4/18/08

Date Completed: 2/7/2008
 Driller: Gregory Drilling, Inc.
 Equipment: Truck-mounted CME 75
 Drilling Method: 4-in ID HSA
 Hammer System: Auto-Trip Hammer

Approximate Location: 65 ft. N, 330 ft. W of intersection of S Kenyon St. and 2nd Ave. S. (N: 1270020 E: 197730)

South Recycling and Disposal Station - Bus Yard Seattle, WA

LOG OF BORING B-4

C207006

FIGURE B-5



Logged by: CAN

Reviewed by: TS

B-5

SOIL DESCRIPTION	Depth, FT	Symbol	USCS	Samples	Blows/6"	Lab tests	PID	Ground Water	Depth, FT	Penetration Resistance	
										Blows per foot (SPT)	Blows per foot (non-standard)
Surface Elevation: 16 NAVD88										PL	LL
Gravel Surfacing.	0		GP SM								
FILL Cuttings are brown, SILTY SAND WITH GRAVEL; moist.				1	9,12,8						
Medium dense, brown, fine to coarse SAND, few gravel; dry to moist.			SP								
Medium stiff, gray, SILT, trace fine gravel; moist; trace organics, brown silty sand with gravel in tip.	5		ML	2	0,2,3	ENV	0				
Medium dense, gray, SILTY SAND WITH GRAVEL; dry to moist; trace seams of organics, rock in tip.			SM	3	8,14,7		0				
ALLUVIUM Loose, black, SAND, trace silt; moist to wet; trace organics.	10		SP	4	1,4,3		0				
Very soft, brown, SILT; moist; few seams of organics, horizontally bedded.			ML	5	1,1,2	ENV	0				
Soft, gray, fine SANDY SILT; wet; few organics, one 4 inch long wood chunk at 15.2 to 15.5, hydrocarbon odor in cuttings at 17 feet (10 ppm).	15		ML	6	1,1,3		0				
Loose, black, fine SAND, trace silt; wet; trace organics.			SP	7	1,2,3		0				
Becomes very loose, few red sand grains, trace silt in top of sampler only.	20			8	0,0,0		0				
Bottom of boring at 21.5 feet below ground surface. Groundwater encountered at 12 feet below ground surface at time of drilling. Temporary well (TW-5A) screen set at 4 to 14 feet below ground surface. Boring backfilled with cuttings and silica sand.	25										
	30										
	35										

LOG OF BORING - NEW SOUTH TRANSFER STATION BUS YARD.GPJ SEATTLE PUMIL.GDT 4/16/08

Date Completed: 2/7/2008
 Driller: Gregory Drilling, Inc.
 Equipment: Truck-mounted CME 75
 Drilling Method: 4-in ID HSA
 Hammer System: Auto-Trip Hammer

Approximate Location: 150 ft. N, 30 ft. W of intersection of S Kenyon St. and 2nd Ave. S. (N: 1270320 E: 197810)

**South Recycling and Disposal Station - Bus Yard
 Seattle, WA**



LOG OF BORING B-5

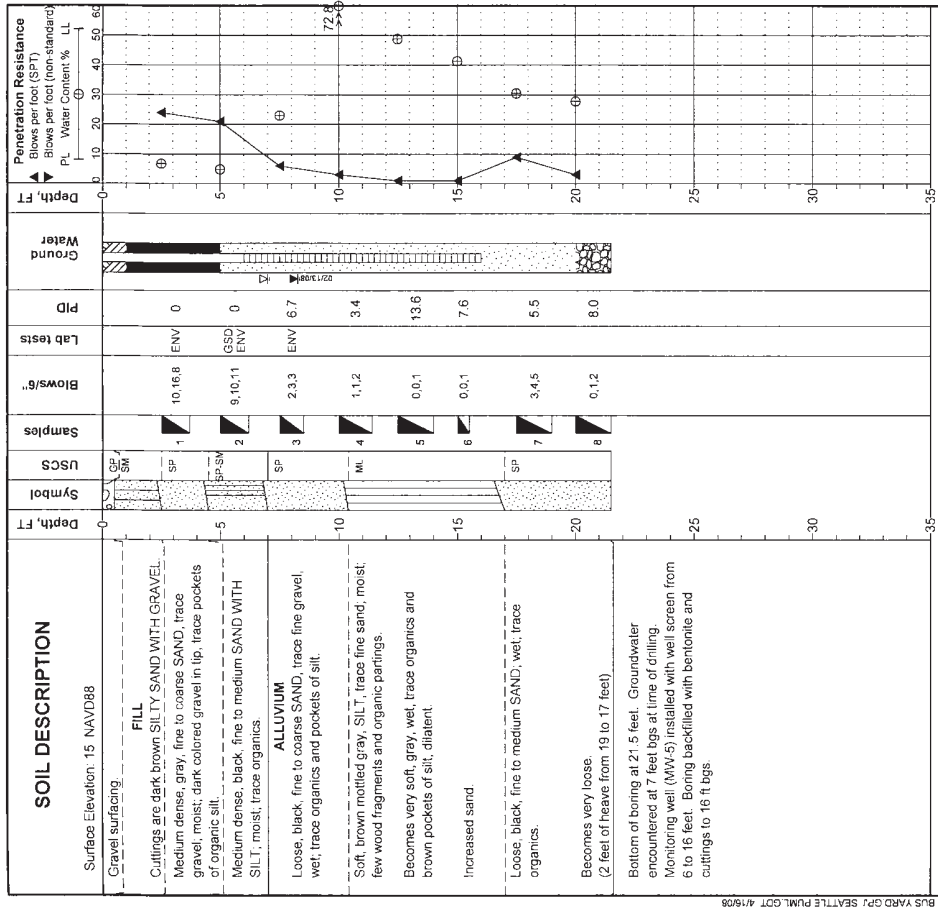
C207006

FIGURE B-6

Logged by: CAN

Reviewed by: TS

Sheet 1 of 1



Approximate Location: 190 ft. N, 30 ft. E. of intersection of S. Kenyon St. and 2nd Ave S. (N: 127040.1 E: 197863)

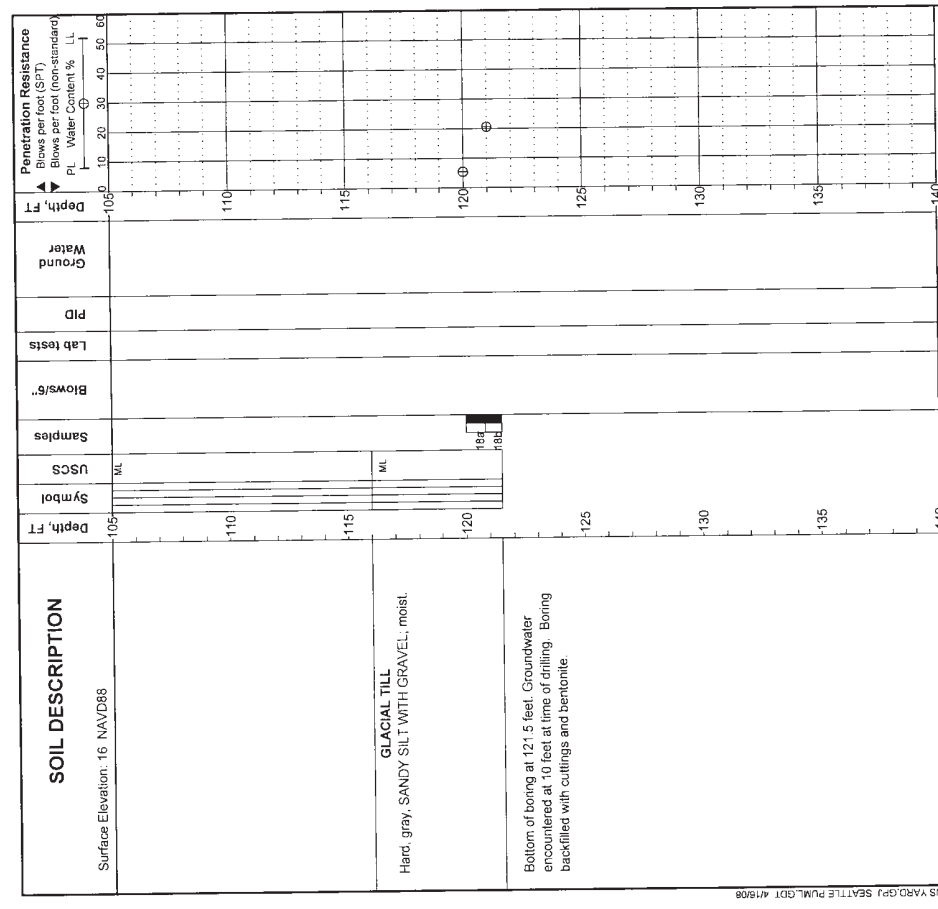
**South Recycling and Disposal Station - Bus Yard
Seattle, WA**

LOG OF BORING B-7 (MW-5)
C207006
FIGURE B-8
Sheet 1 of 1

Date Completed: 2/8/2008
Driller: Gregory Drilling, Inc.
Equipment: Truck-mounted CME 75
Drilling Method: 4-in ID HSA
Hammer System: Auto-Trip Hammer



Logged by: CAN
Reviewed by: TS



Approximate Location: 70 ft. N, 53 ft. E. of intersection of S. Kenyon St. and 2nd Ave S. (N: 127040.0 E: 197740)

**South Recycling and Disposal Station - Bus Yard
Seattle, WA**

LOG OF BORING DB-6
C207006
FIGURE B-7
Sheet 4 of 4

Date Completed: 2/7/2008
Driller: Gregory Drilling, Inc.
Equipment: Truck-mounted CME 75
Drilling Method: 4-in ID HSA / 5/8-in OD Mud Rotary
Hammer System: Auto-Trip Hammer



Logged by: CAN
Reviewed by: TS

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		SM	Asphalt.						
		SM-ML	Brown, silty, fine to coarse SAND; damp to moist. (Fill)						
		SP	Gray, silty, fine SAND to SILT with fine sand, micaceous; moist.			0.0			
		ML	Gray, fine SAND with some silt, abundant black organics; moist.						
		ML	Gray to olive-gray SILT with fine sand and organics (fine roots); moist.			0.0			
		SM	Olive to brown, silty, fine to medium SAND with organics (fine roots - old surface cover), iron-oxide staining, micaceous; moist.			0.0			
5									
		SP	Gray, fine SAND with silt, some brown organics (wood chunks approximately 1-inch long, not decayed); wet.			0.0			
			Same as above.						
10									
		ML	Soft to stiff in places, gray to dark brown SILT with some fine sand, trace clay, abundant decayed organics, micaceous, slightly plastic; wet. (Old stream deposits)			0.0			
15									
			End of boring at 16 ft bgs.						

ENVR+WELL BORING 8-915-16289-A.GPJ AMEC PORTLAND.GDT 2/11/09

BORING METHOD: Direct Push/HSA
BOREHOLE DIAMETER: 9.0 (in)
DRILL RIG: Power Probe 9630
CONTRACTOR: ESN-NW
LOGGED BY: AIS/CI

ELEVATION REFERENCE: NAVD 88
GROUND SURFACE ELEVATION: 18.57 feet
CASING ELEVATION: 18.22 feet
START CARD/TAG ID: /BAF203
DRILLING DATES: 07/21/2008 - 07/21/2008

REMARKS:

SPU Bus Yard
8-915-16289-A

AMEC Earth and Environmental, Inc.
 11810 North Creek Parkway N
 Bothell, Washington
 USA 98011
 Tel (425) 368-1000
 Fax (425) 368-1001



LOG OF BORING
MW-07
 PAGE 1 OF 1

MW-07

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		SM	Gravel at surface. Brown, silty, fine to coarse SAND with gravel; moist. (Fill) Gray concrete chunks from 2-3 ft bgs.						
		SM	Brown to red-brown (iron-oxide), silty, fine to coarse SAND with trace dark brown organics (decayed wood chips). (Fill) With fine to coarse gravel. (Fill)			0.0 0.0			
5			No recovery - rock in shoe from 6-8 ft bgs.						
		SP	Dark brown, fine to coarse SAND with some silt; wet. (Black Duwamish Sand) Organics (fresh wood, > 1-inch thick) in shoe.			0.0	▼		
10			End of boring at 11 ft bgs due to refusal. Moved approximately 2 ft to N to drill MW-11a. Borehole was backfilled with bentonite chips which were hydrated upon placement.						
15									
20									

ENVR-WELL BORING 8-915-16289-A.GPJ AMEC PORTLAND.GDT 2/11/09

BORING METHOD: Direct Push **ELEVATION REFERENCE:** NAVD 88
BOREHOLE DIAMETER: 9.0 (in) **GROUND SURFACE ELEVATION:** 16.79 feet
DRILL RIG: Power Probe 9630 **CASING ELEVATION:** 16.46 feet
CONTRACTOR: ESN-NW **START CARD/TAG ID:** /BAF208
LOGGED BY: AIS/CI **DRILLING DATES:** 07/22/2008 - 07/22/2008

REMARKS:

SPU Bus Yard
8-915-16289-A

AMEC Earth and Environmental, Inc.
11810 North Creek Parkway N
Bothell, Washington
USA 98011
Tel (425) 368-1000
Fax (425) 368-1001



**LOG OF BORING
MW-11**
PAGE 1 OF 1

MW-11

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		SM	GRAVEL at surface. Brown, silty, fine to coarse SAND with gravel, bricks and organics (burnt wood); moist. Weak petroleum-like odor. (Fill) Organics (wood, approximately 3 inches thick).					MW11a-1' @14:10	Flush-mount Monument with Locking Cap Concrete Bentonite Chips Casing (Schedule 40 PVC, 2.0-inch I.D.) 20/40 Colorado Silica Sand
5		SP	Olive-brown to red-brown, iron-oxide staining, fine to coarse SAND with gravel; moist. (Duwamish Sand) (Fill)			0.0			
10		SM	Brown to red-brown (iron-oxide), silty, fine to coarse SAND with fine to coarse gravel, silt lenses; moist. (Fill)			0.0	▽	MW11a-10' @14:20	Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.010-inch slots)
12		SP	Gray, fine to coarse SAND with olive-brown, silty SAND lenses (0.5 inches thick); wet.			0.0			
15		SP-SM	Olive-gray, fine SAND with silt to silty SAND, micaceous; wet.			0.0			Threaded End Cap
20			End of push probe boring at 16 ft bgs. End of hollow stem auger boring at 18 ft bgs.						

ENVR-WELL BORING 8-915-16289-A.GPJ AMEC PORTLAND.GDT 2/11/08

BORING METHOD: Direct Push/HSA **ELEVATION REFERENCE:** NAVD 88
BOREHOLE DIAMETER: 9.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Power Probe 9630 **CASING ELEVATION:** NA
CONTRACTOR: ESN-NW **START CARD/TAG ID:** NA
LOGGED BY: AIS/CI **DRILLING DATES:** 07/22/2008 - 07/22/2008

REMARKS:

SPU Bus Yard
8-915-16289-A

AMEC Earth and Environmental, Inc.
11810 North Creek Parkway N
Bothell, Washington
USA 98011
Tel (425) 368-1000
Fax (425) 368-1001



**LOG OF BORING
MW-11a**

MW-11A

MW-13

ENVR-WELL BORING 8-915-16289-A.GPJ AMEC PORTLAND.GDT 2/11/09

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		SP	Loose, grayish-brown, medium SAND with gravel (to 0.5-inch diameter); dry. (Fill)						
		SP	Reddish-brown, medium SAND with trace fine sand; dry.						
		SP	Brown, medium SAND.						
		ML	Medium stiff, brown to reddish-brown SILT with some to little clay; slightly moist.						
5		SP	Loose, brown, medium SAND with trace fine sand; slightly moist.						
		SP	Brown, fine SAND with trace very fine sand; wet.						
		CL	Gray CLAY with little to trace silt; slightly plastic; moist.						
10		ML	Brown, clayey SILT; moist to wet.						
			Brown, clayey SILT; moist to wet.						
		SP	Gray-brown, medium SAND with trace fine sand.						
15									
			End of boring at 16 ft bgs.						
20									

BORING METHOD: Direct Push BOREHOLE DIAMETER: 9.0 (in) DRILL RIG: Power Probe 9630 CONTRACTOR: ESN-NW LOGGED BY: H. Vick	ELEVATION REFERENCE: NAVD 88 GROUND SURFACE ELEVATION: 17.6 feet CASING ELEVATION: 20.31 feet START CARD/TAG ID: /BAF390 DRILLING DATES: 10/16/2008 - 10/16/2008	REMARKS:
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SPU Bus Yard 8-915-16289-A	AMEC Earth and Environmental, Inc. 11810 North Creek Parkway N Bothell, Washington USA 98011 Tel (425) 368-1000 Fax (425) 368-1001		LOG OF BORING MW-13 PAGE 1 OF 1
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MW-19

ENVR+WELL BORING 8-915-16289-AGPJ AMEC PORTLAND.GDT 2/11/09

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		SP	Loose, light brown, fine SAND; dry.						<p>WELL SCHEMATIC Above-ground Monument with Locking Cap & Bollards</p> <p>Bentonite Chips</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p>
		SM	Reddish-brown, silty SAND; dry.		7	0.0			
5		SP	Reddish-brown, fine to very fine SAND with trace silt; dry.			0.0			
		SW	Reddish-brown, fine to medium SAND; dry.		11				
		ML-CL	Stiff, olive-gray, clayey SILT, non-plastic; slightly moist.						
					10	0.0			
10		OL	Brown, clayey SILT with trace organics (plant fibers); moist.		4	0.0			
			Brown, clayey SILT.		4	0.0			
		ML	Stiff, gray, sandy SILT; moist to wet.		4				
15		SP	Brownish-gray, fine SAND with trace silt; wet.			0.0			
		SM	Dark grayish-brown, fine to very fine SAND with trace silt; moist to wet. Grayish-brown, silty, fine SAND to sandy SILT; moist.		6				
20									

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 7.0 (in)
 DRILL RIG: CME 75
 CONTRACTOR: Cascade Drilling
 LOGGED BY: H. Vick

ELEVATION REFERENCE: NAVD 88
 GROUND SURFACE ELEVATION: 18.0 feet
 CASING ELEVATION: 20.54 feet
 START CARD/TAG ID: /APE285
 DRILLING DATES: 10/09/2008 - 10/09/2008

REMARKS:

SPU Bus Yard
 8-915-16289-A

AMEC Earth and Environmental, Inc.
 11810 North Creek Parkway N
 Bothell, Washington
 USA 98011
 Tel (425) 368-1000
 Fax (425) 368-1001



LOG OF BORING
 MW-19

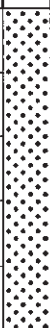

PAGE 1 OF 3

ENVR-WELL BORING 8-915-16289-A.GPJ AMEC PORTLAND.GDT 2/11/09

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
20		ML-SM	Stiff, brownish-gray, sandy SILT (very fine sand in mostly silt matrix); wet.			0.0			
25		SP	Dark gray, medium SAND with some fine sand and trace silt; moist to wet.			0.0			
30		SW	Dark gray, fine to medium SAND with some very fine sand and trace silt; moist to wet.		12	0.0			
35		SW	Dark gray, fine to medium SAND with some very fine sand and trace silt; wet.		12	0.0			
40									Threaded End Cap

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 7.0 (in) DRILL RIG: CME 75 CONTRACTOR: Cascade Drilling LOGGED BY: H. Vick	ELEVATION REFERENCE: NAVD 88 GROUND SURFACE ELEVATION: 18.0 feet CASING ELEVATION: 20.54 feet START CARD/TAG ID: /APE285 DRILLING DATES: 10/09/2008 - 10/09/2008	REMARKS:
---	---	-----------------

SPU Bus Yard 8-915-16289-A	AMEC Earth and Environmental, Inc. 11810 North Creek Parkway N Bothell, Washington USA 98011 Tel (425) 368-1000 Fax (425) 368-1001		LOG OF BORING MW-19 PAGE 2 OF 3
--	---	--	---

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
40		SW	Medium dense, gray, fine to medium SAND; moist.		13	0.0			
45		ML	Dark gray SILT with trace clay; wet.		16	0.0			
			End of boring at 46.5 ft bgs.						
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:** NAVD 88
BOREHOLE DIAMETER: 7.0 (in) **GROUND SURFACE ELEVATION:** 18.0 feet
DRILL RIG: CME 75 **CASING ELEVATION:** 20.54 feet
CONTRACTOR: Cascade Drilling **START CARD/TAG ID:** /APE285
LOGGED BY: H. Vick **DRILLING DATES:** 10/09/2008 - 10/09/2008

REMARKS:

ENVR+WELL BORING 8-915-16289-A.GPJ AMEC PORTLAND.GDT 2/1/09

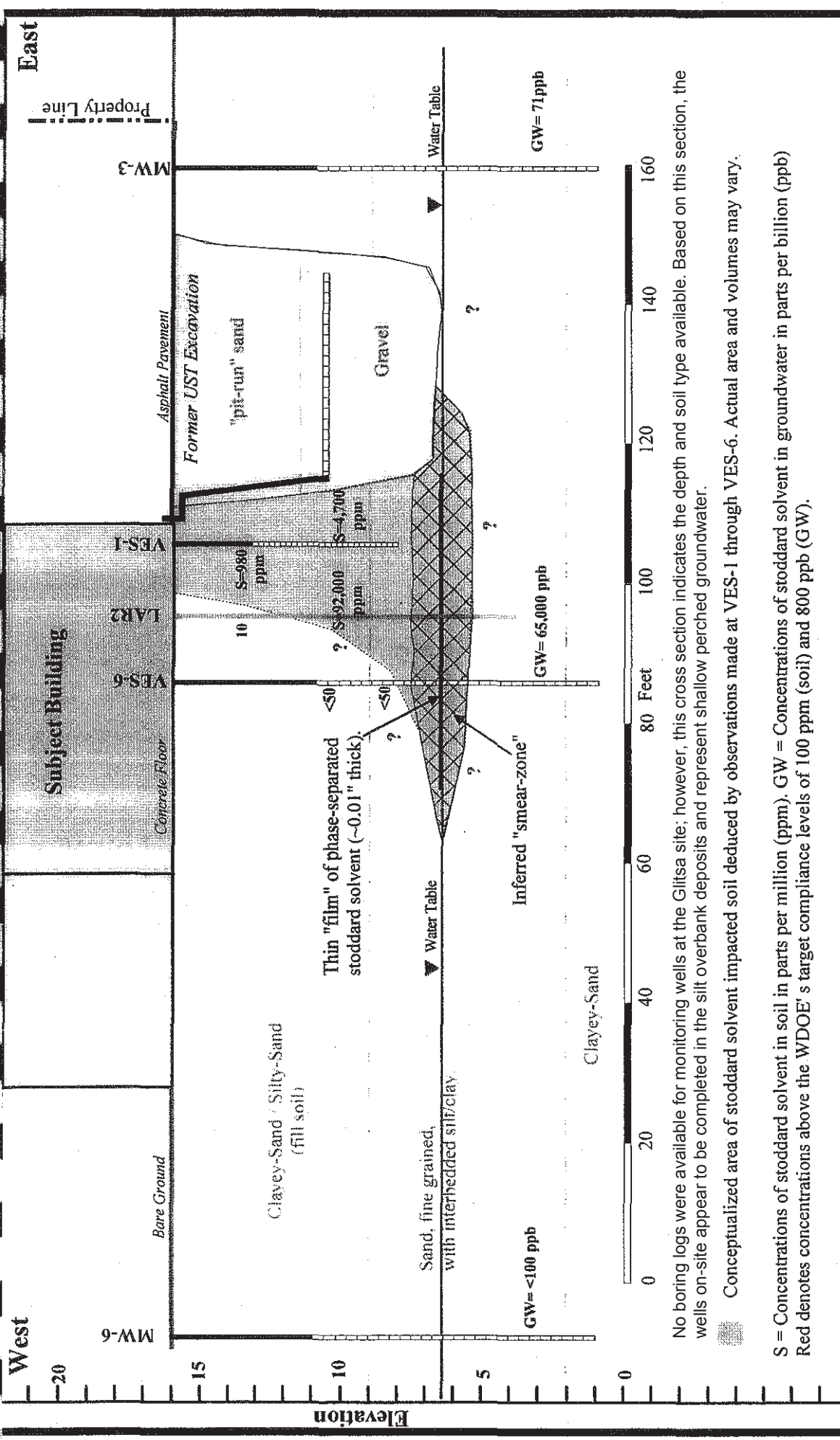
SPU Bus Yard
8-915-16289-A

AMEC Earth and Environmental, Inc.
 11810 North Creek Parkway N
 Bothell, Washington
 USA 98011
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 Fax (425) 368-1001



LOG OF BORING
MW-19
 PAGE 3 OF 3

Cross Section of Subsurface at Glitsa Property



ENVIRONMENTAL ASSOCIATES, INC.
1380 - 112th Avenue NE, Suite 300
Bellevue, Washington 98004

WEST-EAST CROSS-SECTION

Former Glitsa, Inc. Property
327 South Kenyon Street
Seattle, Washington

Job Number: JN 28275-3	Date: June 2009	Scale: Horizontal: 1"=20' Vertical: 1"= 5'	Plate: 4
----------------------------------	---------------------------	---	--------------------

No boring logs were available for monitoring wells at the Glitsa site; however, this cross section indicates the depth and soil type available. Based on this section, the wells on-site appear to be completed in the silt overbank deposits and represent shallow perched groundwater.

Conceptualized area of stoddard solvent impacted soil deduced by observations made at VES-1 through VES-6. Actual area and volumes may vary.

S = Concentrations of stoddard solvent in soil in parts per million (ppm). GW = Concentrations of stoddard solvent in groundwater in parts per billion (ppb). Red denotes concentrations above the WDOE's target compliance levels of 100 ppm (soil) and 800 ppb (GW).

5th Ave South Property Logs From Ecology CKD Study

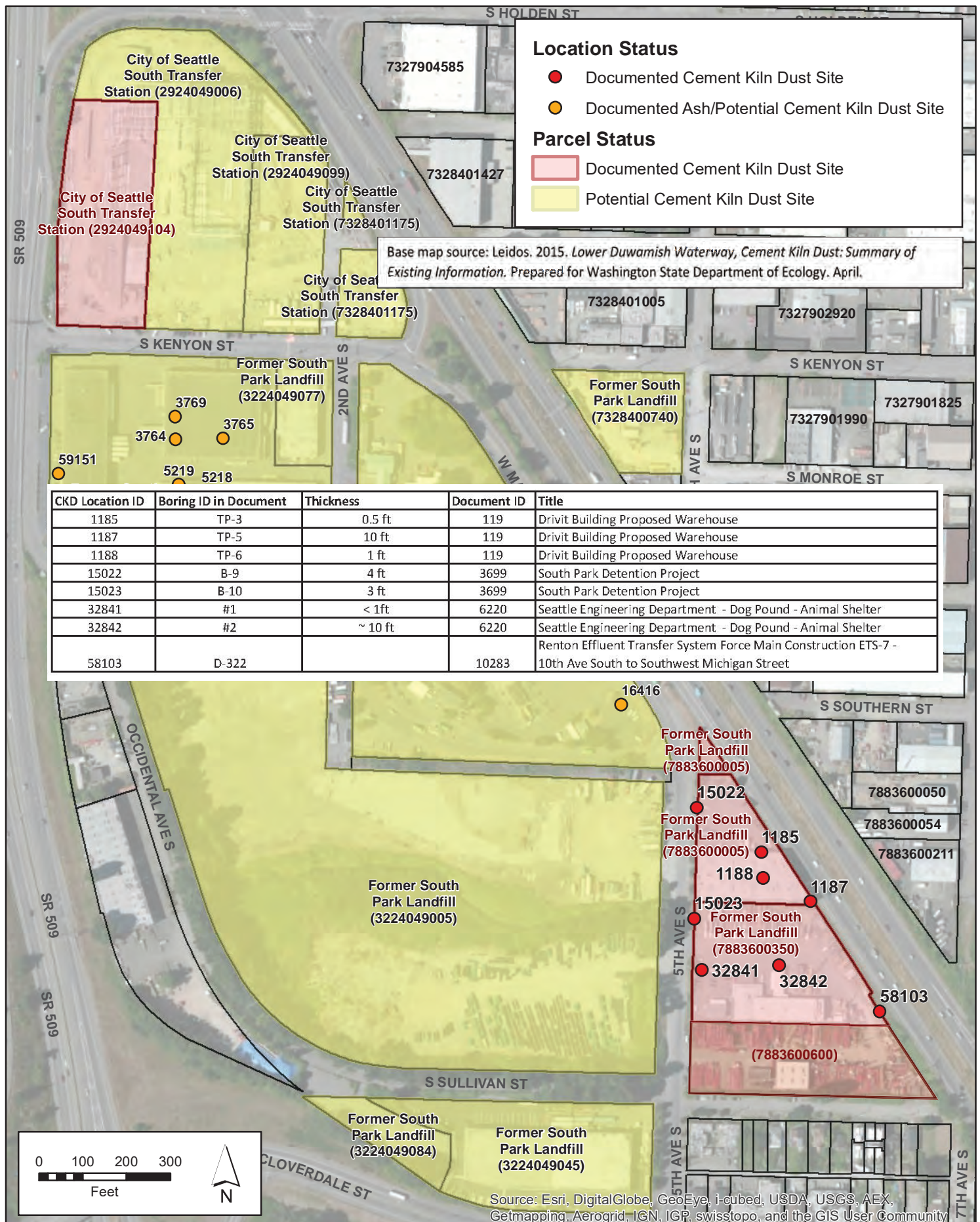
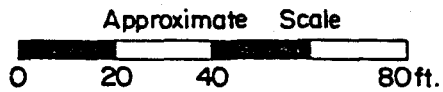


Figure 9. Cement Kiln Dust Locations: City of Seattle South Transfer Station Property and former South Park Landfill

Source: GeoMap NW






LEGEND

 TP-2 Approximate Test Pit Location

 Proposed Building

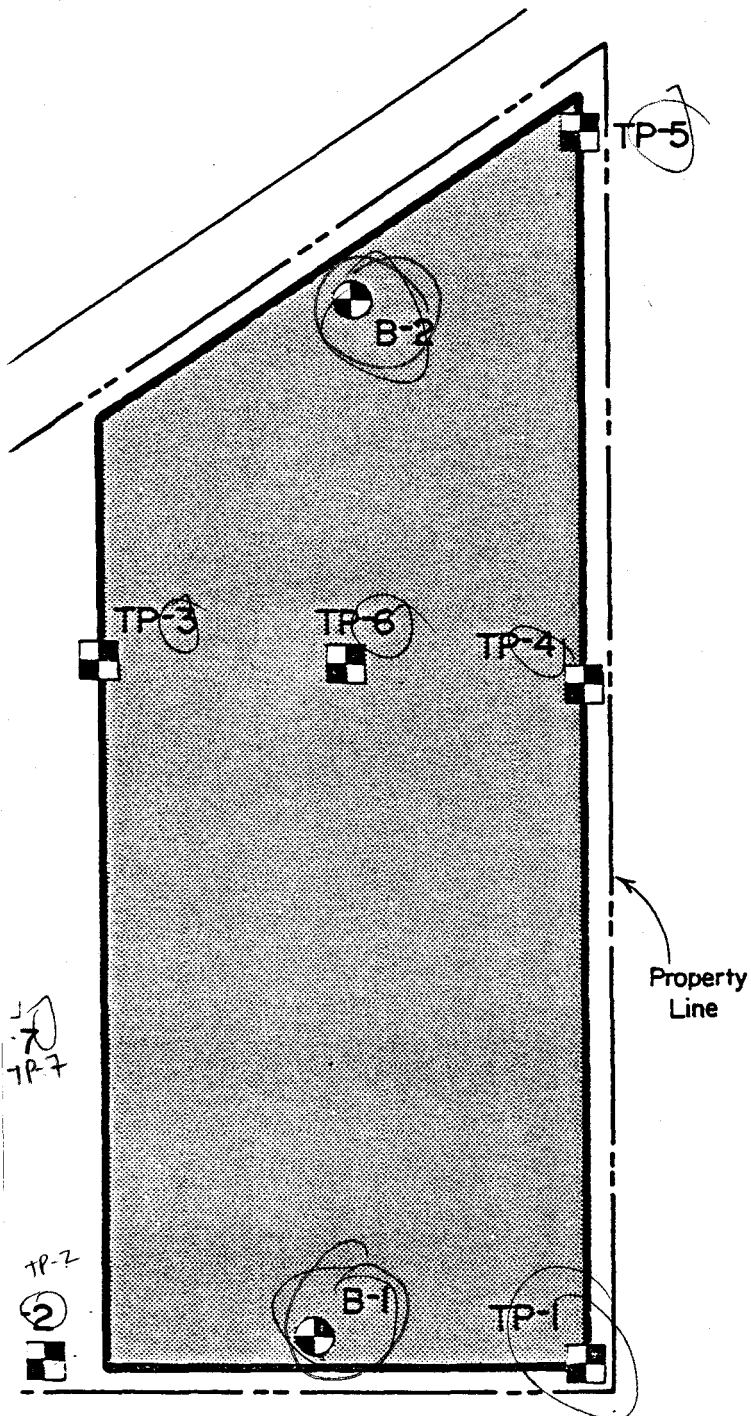
 B-1 Approximate Boring Location

Reference :
Site Plan
By Paul Panagakis & Company
Dated 2/20/80

Earth Consultants Inc. 
GEOTECHNICAL ENGINEERING & GEOLOGY

Test Pit Location Plan
Dryvit Building
Seattle, Washington

Proj. No. 1371 | Date Aug. '80 | Plate 1



JTH

MAJOR DIVISIONS			GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (little or no fines)		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (appreciable amount of fines)		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY SOILS	CLEAN SAND (little or no fines)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SANDS WITH FINES (appreciable amount of fines)			SM	SILTY SANDS, SAND-SILT MIXTURES	
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES	
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS
TOPSOIL				Humus and Duff Layer	
FILL				Uncontrolled with Highly Variable Constituents	

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOIL CLASSIFICATION CHART

THE DISCUSSION IN THE TEXT OF THIS REPORT IS NECESSARY FOR A PROPER UNDERSTANDING OF THE NATURE OF THE MATERIAL PRESENTED IN THE ATTACHED LOGS

- I 2" O.D. Split Spoon Sampler
- II Ring or Shelby Sample
- P Sampler Pushed
- * Sample Not Recovered
- W Water Level (date)
- Ts Torvane Reading
- Q Penetrometer Readings
- E Water Observation Well

Earth
Consultants Inc.



LEGEND

Proj. No. 1371

Date Aug. '80

Plate 2

BORING NO. 1

Logged By BT

Date 8/25/80

ELEV. +0.5*

Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows Ft.	W (%)
	SM ML	Brown grades to blue-gray gravelly silty SAND with clay to sandy clayey SILT with gravel, with wood, asphalt and organic debris, loose to medium dense. (FILL)	5	I	10	14
			5	I	4	21
			10	I	11	17
	SM SP	Gray-black SAND with silt, loose to medium dense, moist to wet. (lens of clayey SILT from 16 to 17 feet)	15	I	14	27
			16	I	4	33
			20	I	17	38
			25	I	21	24

Boring terminated at 29 feet below the existing grade.
 Water observation well installed to 29 feet.



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BORING LOG
 DRYVIT BUILDING
 SEATTLE, WASHINGTON

Proj. No. 1371

Date August '80

Plate 3

BORING NO. 2

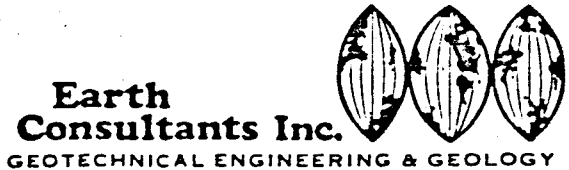
Logged By BT
Date 8/25/80

ELEV. +1

Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows Ft.	W (%)
	SM ML	Tan with pockets of brown, silty gravelly SAND with wood and brick debris, loose to medium dense, moist. (FILL) (grades to mottled sandy clayey gravelly SILT below 7.5 feet)	5	I	19	8
			7	I	7	17
			8	I	7	18
	SM SP	Gray-black SAND with silt, loose to medium dense, moist grades to wet.	10	I	12	30
			15	II	4	23
	OH	Gray-tan clayey SILT with wood debris, medium stiff to stiff, moist to wet.	20	I	4	59
	SM SP	Gray-tan SAND with silt, medium dense, wet.	24	T	19	26

(qu=7.5 to 1.25 tsf)
LL=57
PL=46
PI=11

Boring terminated at 24 feet.



BORING LOG
DRYVIT BUILDING
SEATTLE, WASHINGTON

Proj. No. 1371

Date August '80

Plate 4

TEST PIT NO. 1

Logged By BT

Date 8/13/80

Elev. 0*

Depth (ft.)	USCS	Soil Description	W (%)	Lab Data
0		Crushed rock (FILL)		
5	SM	Tan gravelly silty SAND with wood, brick, metal and concrete debris, loose, moist grades brown below 2 feet. (FILL)	9	
			14	
			15	
10	SM SP	Gray-black gravelly SAND with silt, medium dense, moist.	15	
15		Test pit terminated at 14 feet.		

No groundwater encountered.
Caving in the fill unit from 2.5 to 10.5 feet.

Logged By BT

Date 8/13/80

TEST PIT NO. 2

Elev. +1

0		Crushed rock (FILL)		
5	SM ML	Brown grades to tan, gravelly silty SAND to gravelly sandy SILT with wood, concrete and metal debris, loose to medium dense, moist. (FILL)	18	
			14	
10	SM SP	Gray-black SAND with silt with trace of wood debris, loose to medium dense, moist.	10	
15		Test pit terminated at 14 feet.		

No groundwater encountered.
Moderate caving of Test Pit walls.

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TEST PIT LOGS

DRYVIT BUILDING
SEATTLE, WASHINGTON

Proj. No. 1371

Date August '80

Plate 5

TEST PIT NO. 3

Logged By BT

Date 8/13/80

Elev. +1

Depth (ft.)	USCS	Soil Description	W (%)	Lab Data
0		(6" Crushed rock - FILL)		
	SM	Tan gravelly silty SAND, medium dense, moist. (FILL)	14	
		Cement by-product	48	
5	ML	Tan gravelly sandy SILT with wood, bottles, metal and concrete debris, loose, moist (layer of brown topsoil like material at base) (FILL)	14	
	SM SP	Gray SAND with silt, with trace of wood debris, loose to medium dense, moist.	16	
10		Test pit terminated at 10 feet. No groundwater encountered. Heavy caving above 7 feet.		
15				

Logged By BT

Date 8/13/80

TEST PIT NO. 4

Elev. +1

0		(6" Crushed rock - Fill)		
	SM	Tan to brown gravelly silty SAND with boulders, wood, concrete and metal debris, loose to medium dense, moist.	13	
5			12	
	ML	(Asphalt debris at 8 feet) Grades to tan sandy clayey SILT with wood and asphalt debris, soft to medium stiff.	24	
10				qu=0.5 to 1.0 tsf
	SM SP	Black SAND with silt, medium dense, moist.	19	
15		Test pit terminated at 14 feet. Moderate seepage at 13.5 feet.		

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TEST PIT LOGS
DRYVIT BUILDING
SEATTLE, WASHINGTON

Proj. No. 1371

Date August '80

Plate 6

TEST PIT NO. 5

Logged By BT

Date 8/13/80

Elev. +1.5

Depth (ft.)	USCS	Soil Description	W (%)	Lab Data
0	ML	Brown sandy SILT with roots, loose, moist. (FILL)		
		Tan-white CEMENT by-product, medium dense, moist. (FILL)	45	
5			53	
	SM	Black silty SAND with roots and piece of concrete debris, loose to medium dense, wet. (FILL)	19	
10	SM SP	Black SAND with silt and pockets of silt, medium dense, wet.	26	

Test pit terminated at 14.5 feet.
Heavy seepage at 14.5 feet.

Logged By BT

Date 8/13/80

TEST PIT NO. 6

Elev. +1

0	ML	(6" Crushed rock - fill) Brown sandy SILT, loose, moist. (FILL)		
	SM	Gray-white cement by-product, medium dense, moist. (FILL)	34	
5	SM	Brown gravelly silty SAND with wood debris and pockets of blue-green silt, loose to medium dense, moist.	12	
	ML	Grades to clayey sandy SILT with gravel, wood and asphalt debris. (FILL)		
10	SM SP	Black SAND with silt and lenses of silt, loose to medium dense, moist.	12	
15	ML OL	Brown peaty SILT with pockets of sand, medium stiff, moist.	56	qu=1.25 tsf

Test pit terminated at 14.5 feet.
No groundwater encountered. Caving below 2 feet.

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TEST PIT LOGS
DRYVIT BUILDING
SEATTLE, WASHINGTON

Proj. No. 1371

Date August '80

Plate 7

TEST PIT NO. 7

Logged By BT

Date 8/13/80

Elev. ±1

Depth (ft.)	USCS	Soil Description	W (%)	Lab Data
0	ML	(12" Crushed rock - fill) Brown sandy SILT, medium dense, moist.		
5	SM	Brown gravelly silty SAND with wood and brick debris, loose to medium dense, moist. (Grades to gravelly silty SAND with clay, medium dense) (FILL)	13	
10	SM SP	Black SAND with silt, medium dense, with pockets of SILT with organics, medium dense, moist to wet.	7	
15				

Test pit terminated at 15 feet.
No groundwater encountered.

Earth Consultants Inc.

GEOTECHNICAL ENGINEERING & GEOLOGY

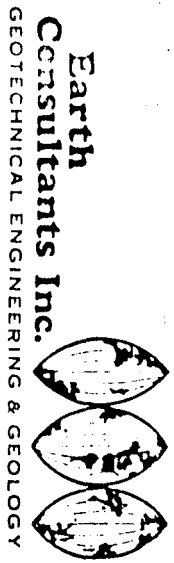


TEST PIT LOGS
DRYVIT BUILDING
SEATTLE, WASHINGTON

Proj. No. 1371

Date August '80

Plate 8

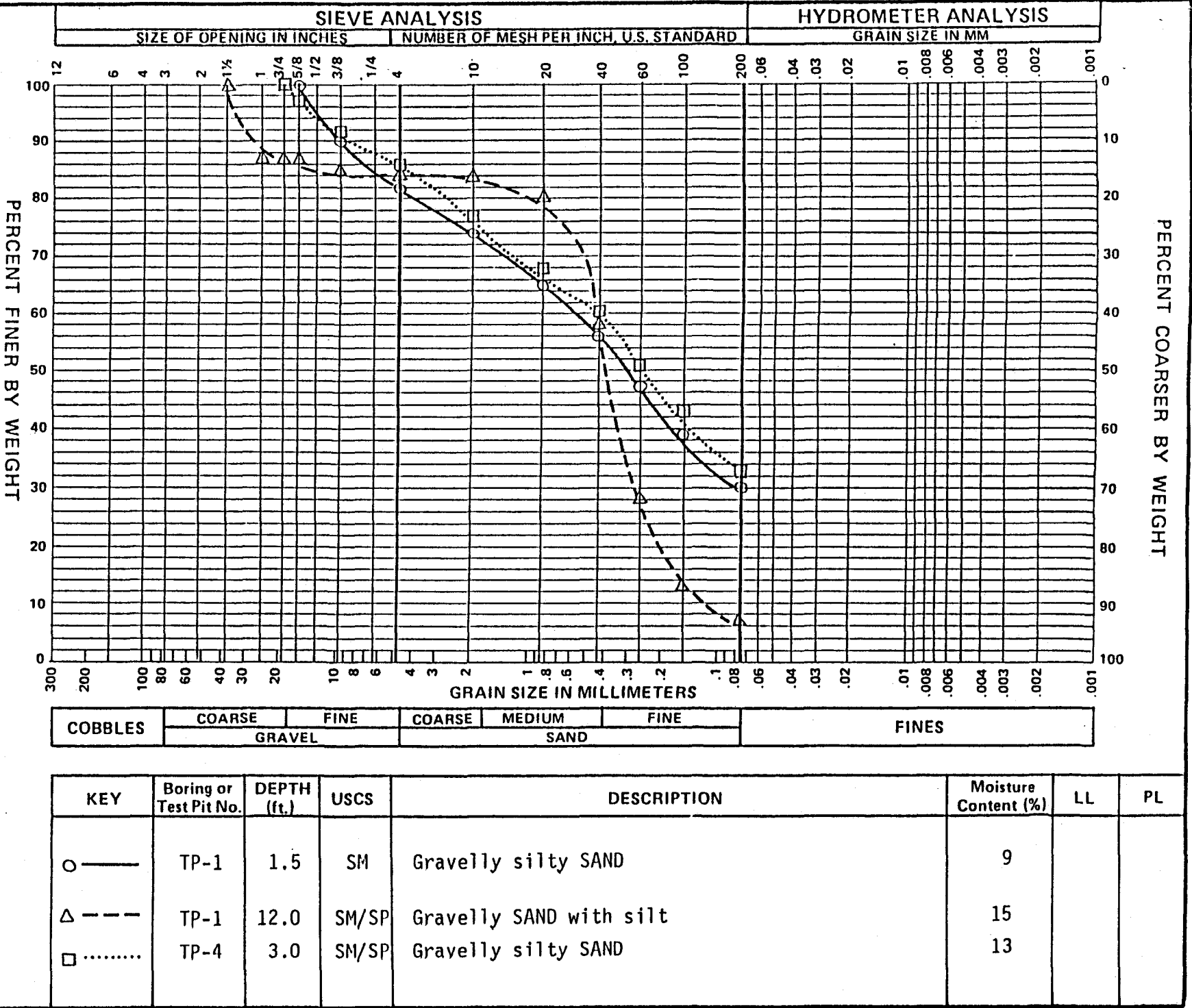


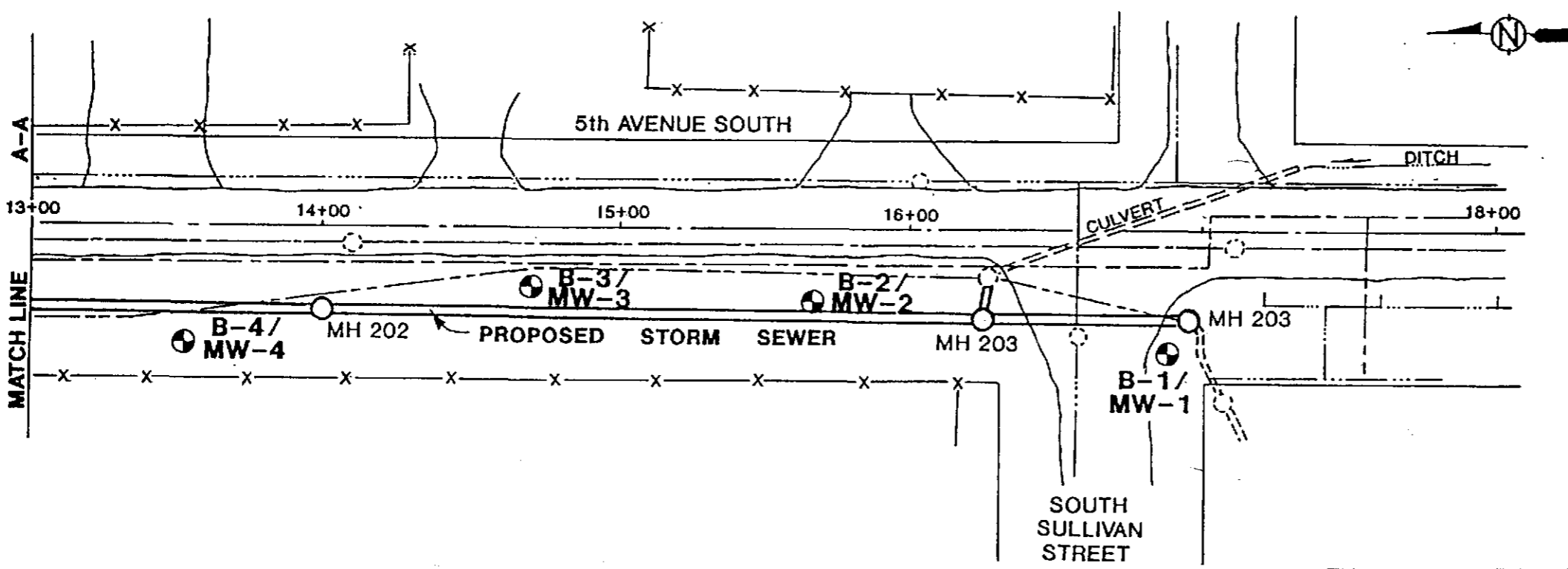
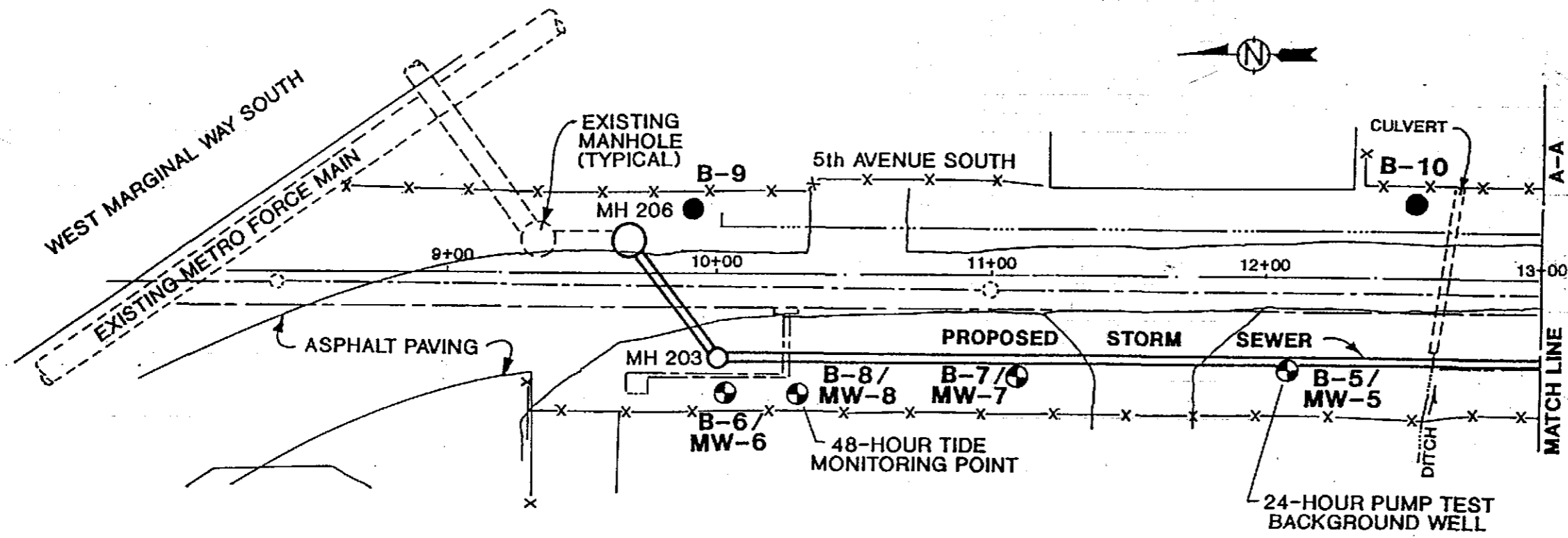
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Date August '80

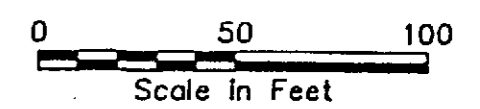
Plate 9

GRAIN SIZE ANALYSES
 DRYVIT BUILDING
 SEATTLE, WASHINGTON





- LEGEND**
- INDICATES BORING/MONITORING WELL NUMBER AND APPROXIMATE LOCATION
 - INDICATES EXISTING PSS LINE
 - INDICATES EXISTING WATER LINE
 - INDICATES EXISTING GAS LINE
 - INDICATES EXISTING IRR. LINE
 - EXISTING FENCE
 - INDICATES EXISTING LINE TO BE REMOVED
 - BORING NUMBER AND LOCATION



**SOUTH PARK DETENTION PROJECT
SEATTLE, WASHINGTON**

**SITE & EXPLORATION PLAN
5TH AVENUE SOUTH
FIGURE 2**

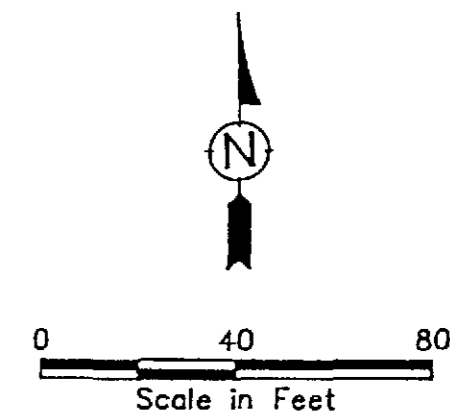
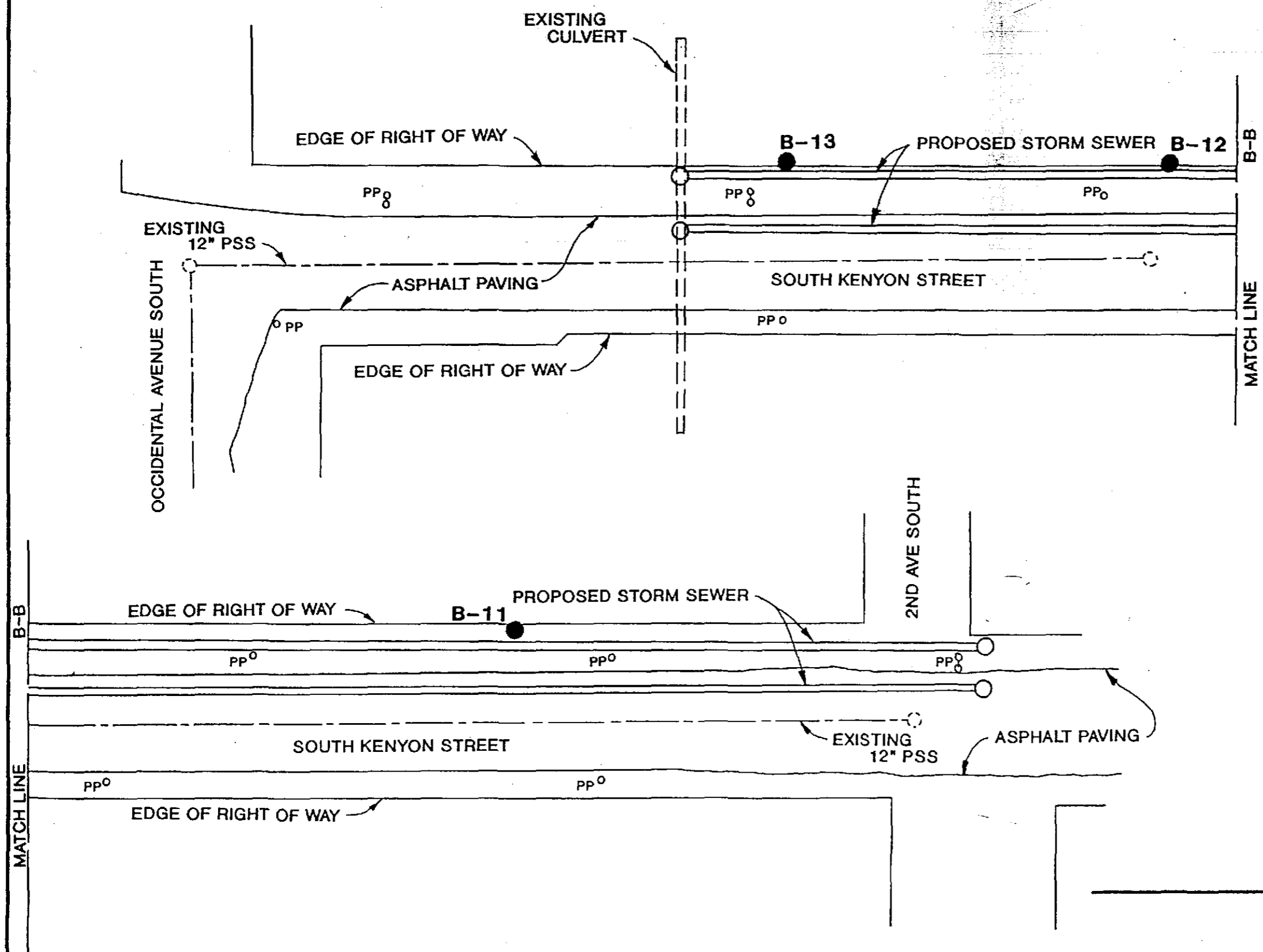
W.O. W-7490
 BY WB
 DATE SEPT 1991
 SCALE 1"=50'

RITZ
RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
 Geotechnical & Environmental Consultants
 1400 140th Avenue N.E.
 Bellevue, Washington 98005

BASED ON A SITE PLAN SUPPLIED BY THE SEATTLE ENGINEERING DEPARTMENT.

LEGEND

- PP
o POWER POLE
- B-13
● BORING NUMBER AND LOCATION



**SOUTH PARK DETENTION PROJECT
SEATTLE, WASHINGTON**

**SITE AND EXPLORATION PLAN
SOUTH KENYON STREET
FIGURE 3**

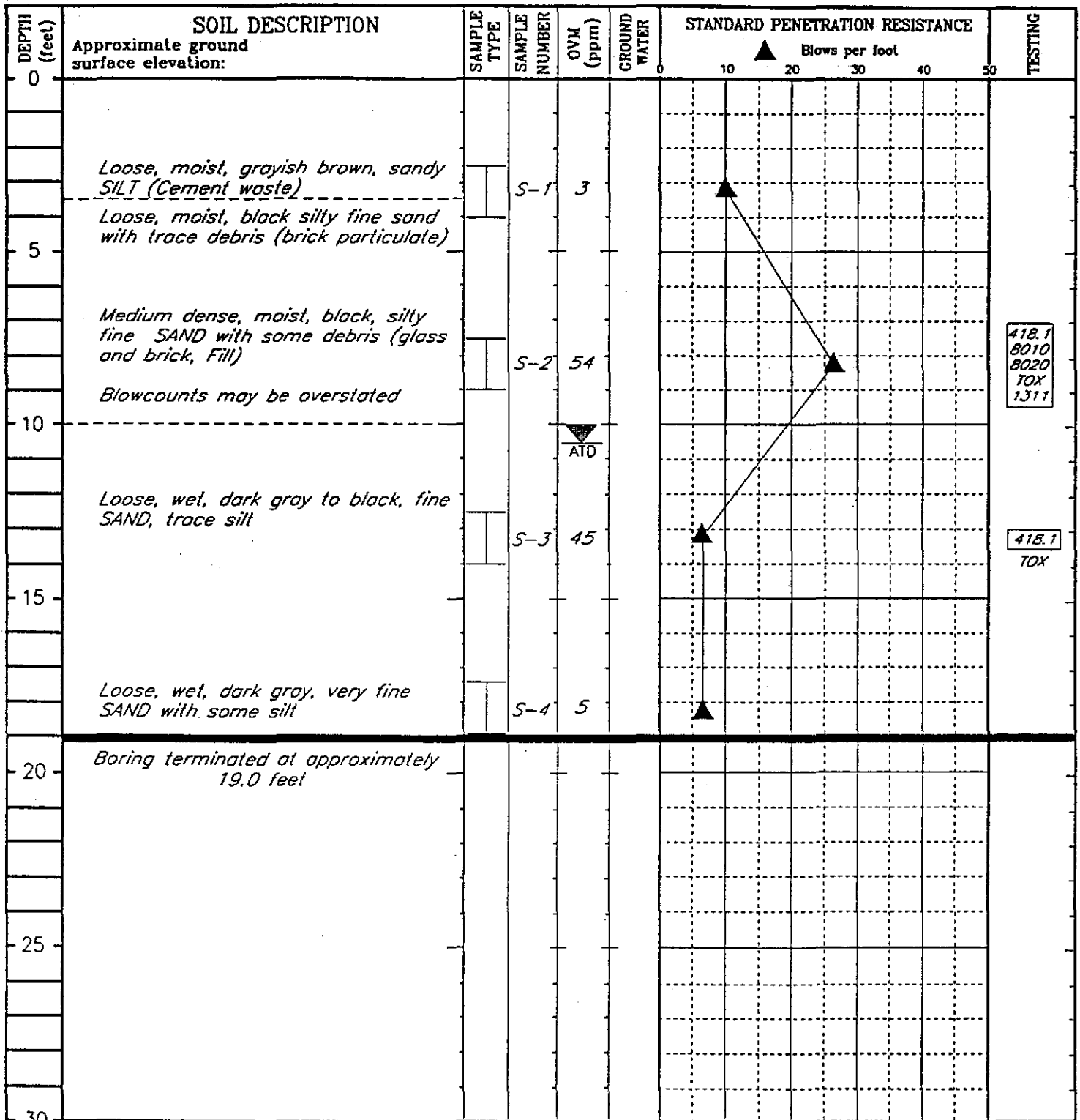
BASED ON A SITE PLAN SUPPLIED BY THE SEATTLE ENGINEERING DEPARTMENT.

W.O. W-7490-1
 BY WB
 DATE SEPT 1991
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
RITTENHOUSE-ZEMAN & ASSOCIATES, INC.
 Geotechnical & Environmental Consultants
 1400 140th Avenue N.E.
 Bellevue, Washington 98005





PROJECT *South Park Detention Project* W.O. *W-7490-1* BORING NO. *B-9*

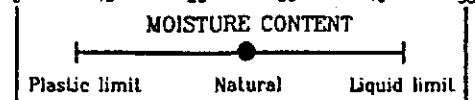


LEGEND

 2-inch OD split-spoon sample

 Groundwater level at time of drilling

 EPA Analysis Method Shown



RZA - AGRA

Engineering & Environmental Services

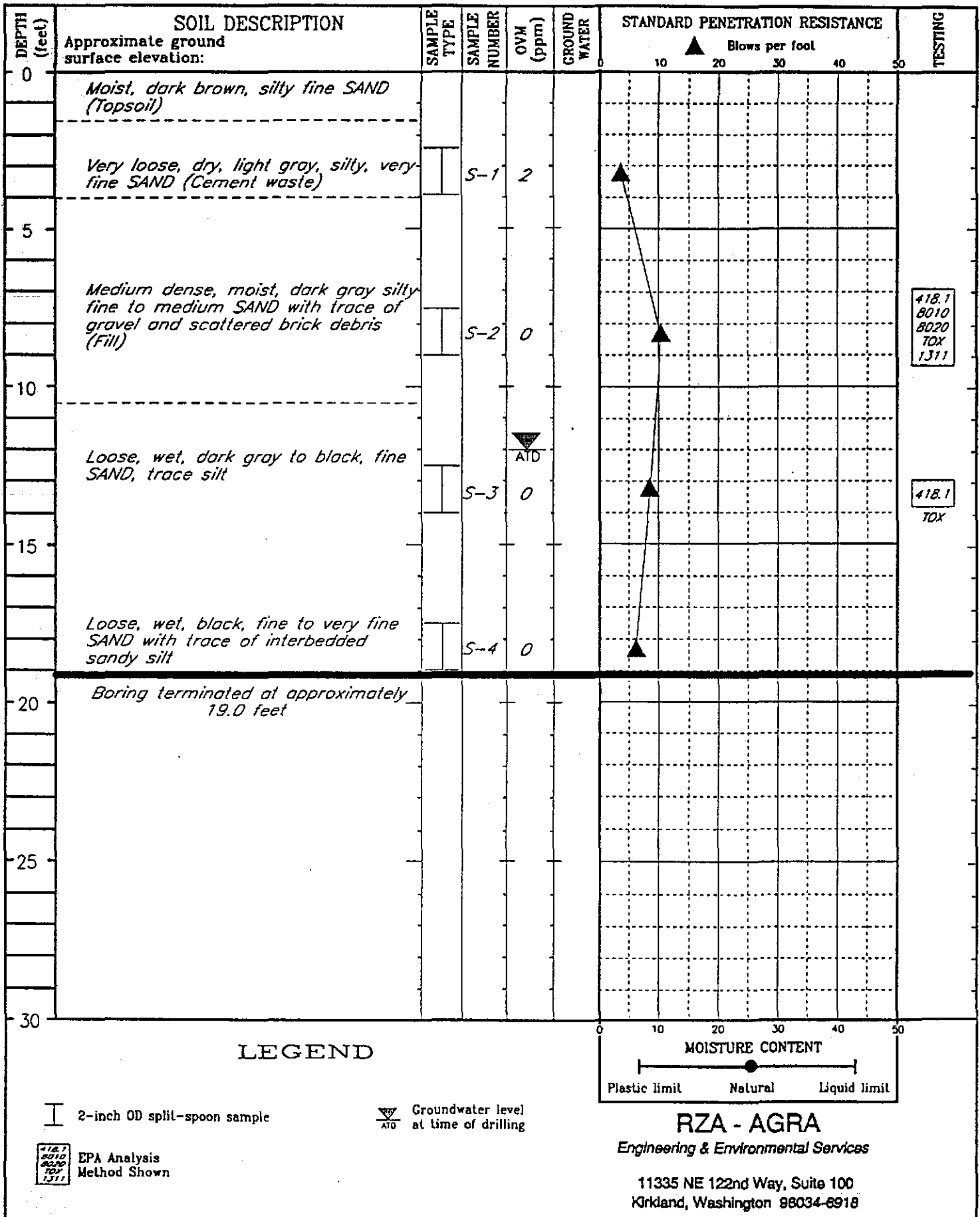
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: 20 August 1991

Drilling completed: 20 August 1991

Logged by: GS

PROJECT *South Park Detention Project* W.O. W-7490-1 BORING NO. *B-10*



Drilling started: 20 August 1991

Drilling completed: 20 August 1991

Logged by: GS


PROJECT *South Park Detention Project* W.O. *W-7490-1* BORING NO. *B-11*

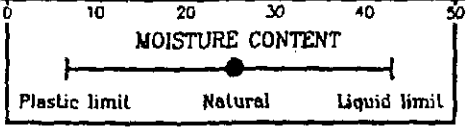
Start here

DEPTH (feet)	SOIL DESCRIPTION Approximate ground surface elevation:	SAMPLE TYPE	SAMPLE NUMBER	OVM (ppm)	GROUND WATER	STANDARD PENETRATION RESISTANCE					TESTING
						Blows per foot					
0	2 inches asphalt										
	Loose, dry, brown, medium SAND with trace gravel (Fill)		S-1	0							1311
5	Loose, dry, gray, fine to very fine, sandy SILT										
	Stiff, moist, gray-red mottled, sandy SILT		S-2	0							
10	Medium dense, wet, dark grey, fine SAND, trace silt										
	Loose, moist, grayish-brown, medium to fine SAND with a trace of silt		S-3	0							
15	Loose, moist, gray, fine to very fine, silty SAND		S-4	0							
20	Boring terminated at approximately 19.0 feet										
25											
30											

LEGEND

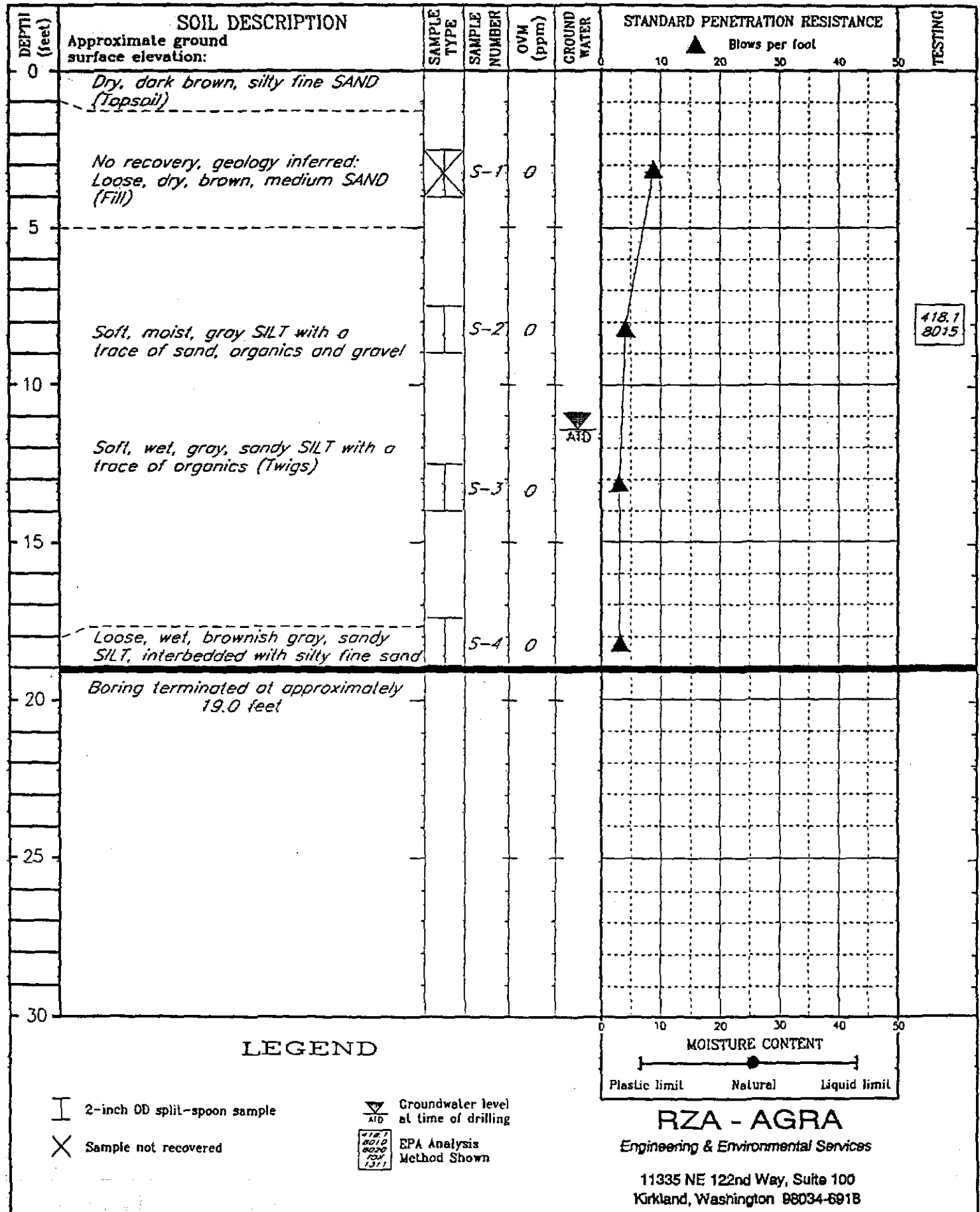
I 2-inch OD split-spoon sample
 Groundwater level at time of drilling

 EPA Analysis Method Shown



RZA - AGRA
 Engineering & Environmental Services
 11335 NE 122nd Way, Suite 100
 Kirkland, Washington 98034-6918

PROJECT *South Park Detention Project* W.O. *W-7490-1* BORING NO. *B-12*

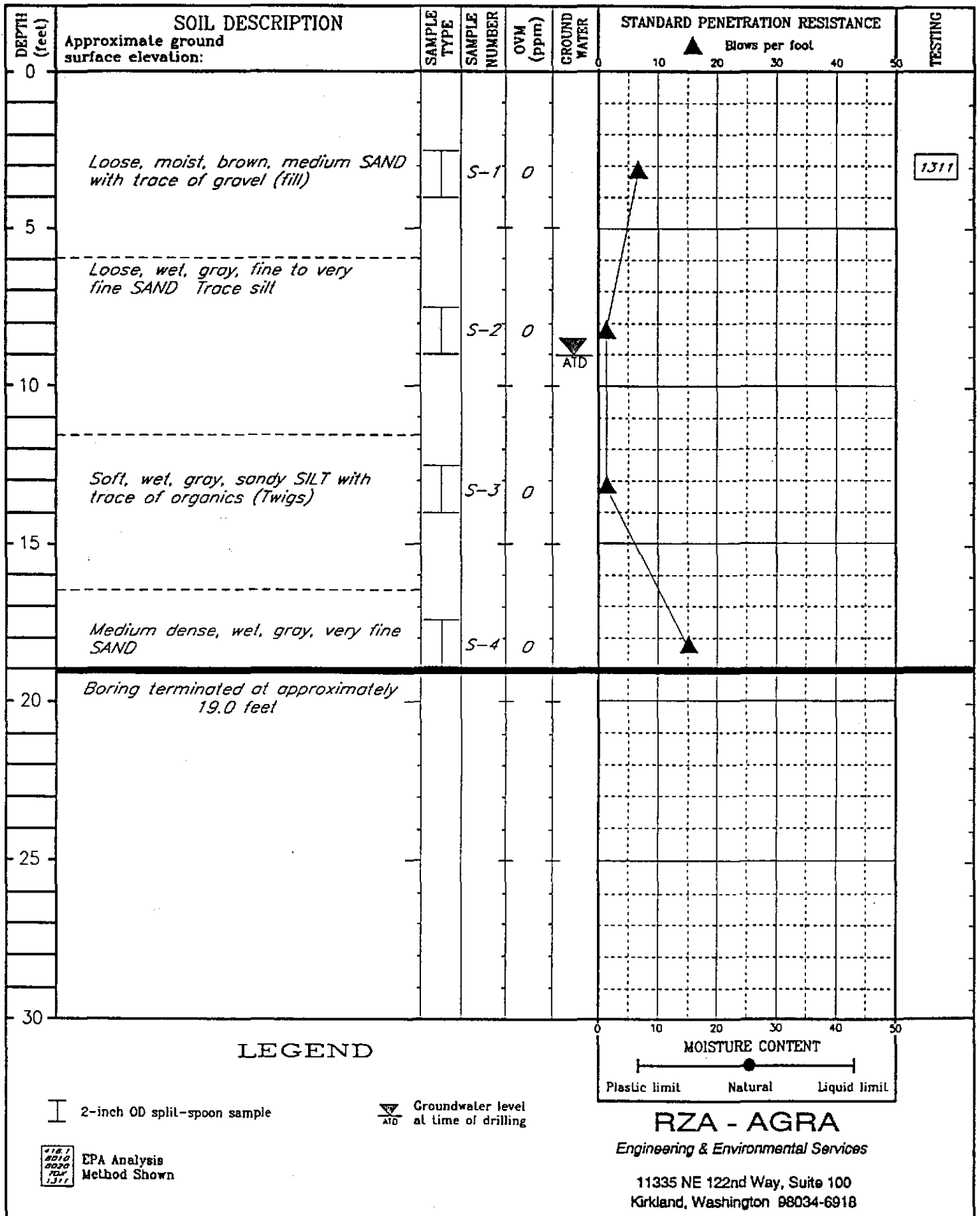


Drilling started: 20 August 1991

Drilling completed: 20 August 1991

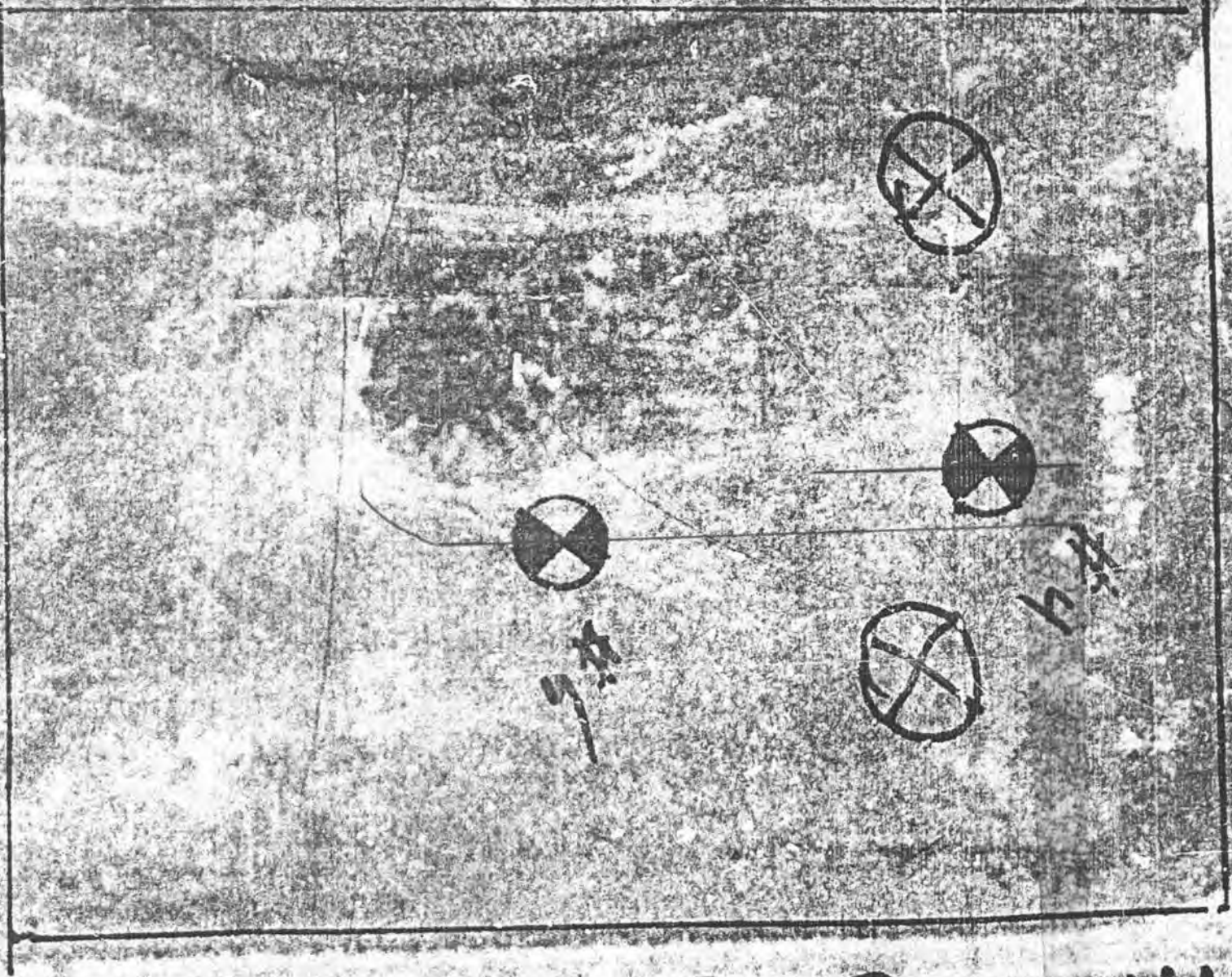
Logged by: GS

PROJECT *South Park Detention Project* W.O. *W-7490-1* BORING NO. *B-13*



Drilling started: *20 August 1991* Drilling completed: *20 August 1991* Logged by: *GS*

5th Ave. S.



S. SULLIVAN

E. MARGINAL ST

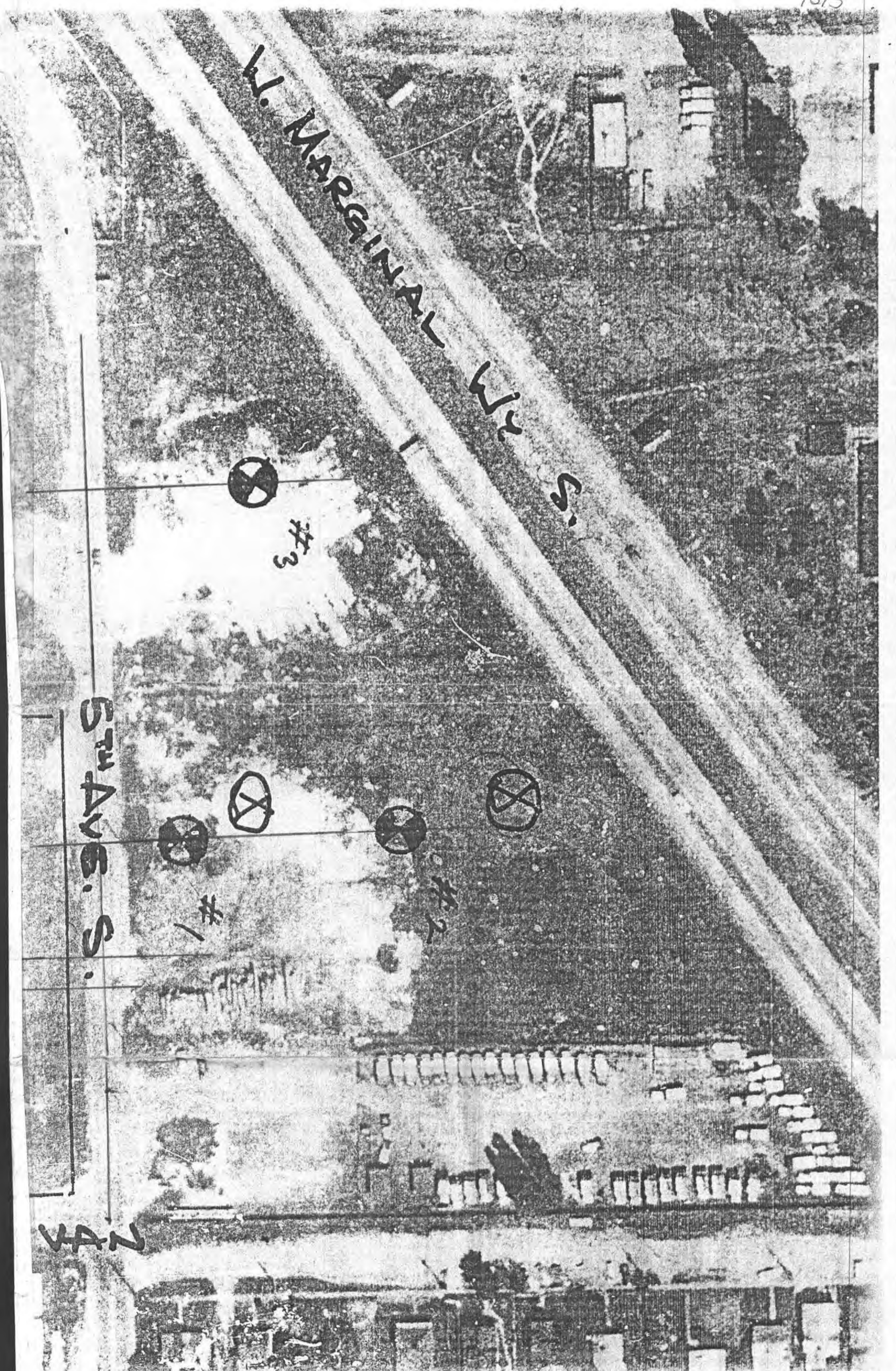
#3

5th Ave. S.

#1

#2

VAN



LOG OF TEST BORING

DATE 8-15-72

HOLE NO. 1

PROJECT Dog Pound - ANIMAL SHELTER

GRD. ELEV. _____

LOCATION 45 ft E Power Pole PER PLAN

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
LOOSE, SILTY SAND & WOOD / CEMENT WASTE	5	A	1 2 5 7	7	6" white cement waste				
					Dark Brn silty SAND w/ gravel & wood				
					Top 1" CLAY			Mixed	
					silty SAND w/ trace brick	Loose	moist	white brn	
					Bot 2" cement waste			gray	
LOOSE, SILTY SAND & WOOD / CEMENT WASTE	10	B	3 5 4 9	9	WOOD mixed w/ silty SAND	Loose	wet	black	
LOOSE BLACK SAND & VERY SOFT SILT	15	C	5 9 6 15	15	WOOD & black fine-med SAND	firm	wet	black	
LOOSE BLACK SAND & VERY SOFT SILT	20	D	— 1 — 1	1	ORGANIC SILT w/ roots	very soft	sat	brn	
					Bot 1" black fine-med SAND				
LOOSE BLACK SAND & VERY SOFT SILT	25	E			hewed 18" trace				
					Black fine-med SAND				

8-16-72
8-17-72

PIEZOMETER
INSTALLED
8-15-72

INSPECTOR AC Rice

LOG OF TEST BORING

DATE 8-15-72

HOLE NO.

PROJECT Dog Pound - Animal Shelter

GRD. ELEV.

LOCATION PER PLAN
165 # E TH

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
WHITE, COMPACT, CEMENT WASTE					white Cement Waste				
	5	A	2 21 31 52		very fine Cement Waste		moist	white	
WHITE, COMPACT, CEMENT WASTE					very fine Cement Waste				
	10	B	17 37 21 58		very fine Cement Waste		moist	white	
LOOSE, BLACK SAND / VERY SOFT SILT or PEAT					fine-med. SAND				
	15	C	- 2 5 7		fine-med. SAND	Loose	moist	black	↓ 8-16-72 8-17-72
LOOSE, BLACK SAND / VERY SOFT SILT or PEAT					ORGANIC SILT to PEAT				
	20	D	-1- 1 2		ORGANIC SILT to PEAT	very soft	wet	brn	PIEZOMETER INSTALLED 8-15-72
LOOSE, BLACK SAND / VERY SOFT SILT or PEAT				12" PEAT					
	25	E	PUSH		12" PEAT	very soft	wet	brn	
LOOSE, BLACK SAND / VERY SOFT SILT or PEAT					6" fine-med SAND				
					6" fine-med SAND		sat	black	
					heaved 12"				
	30								

INSPECTOR AC Rice

CS 7.241

LOG OF TEST BORING

DATE 8-16-72

HOLE NO. 4

PROJECT Dog Pound - ANIMAL SHELTER

GRD. ELEV. _____

LOCATION PER PLAN

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL			
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR				
LOOSE SILTY SAND w/ SILT	5				Brn sandy SILT w/ gravel							
		A	2	2	1	3	TOP 4" SILT silty SAND w/ gravel					
LOOSE SILTY SAND w/ SILT	5	B	1	1	4	5	loose moist Brn silty SAND w/ gravel					
								w/ SLAG				
LOOSE SILTY SAND w/ SILT	10	C	-	1	-	2	3	Loose moist Brn silty SAND				
								3" fine-med SAND w/ gray black				
LOOSE, BLACK SAND w/ LAYER VERY SOFT SILT	10	D	3	4	5	9	Loose moist black fine-medium SAND					
								+1/2 wet				
LOOSE, BLACK SAND w/ LAYER VERY SOFT SILT	15	E	-	-	1	1	very soft sat black ORGANIC SILT, fine SAND					
								& very fine SAND layers				
LOOSE, BLACK SAND w/ LAYER VERY SOFT SILT	15	F	PUSH	1	1	1	Loose sat black fine-med SAND w/ occ. thin SILT layer					
LOOSE, BLACK SAND w/ LAYER VERY SOFT SILT	20	G	0	1	1	2	Loose sat black f-m SAND w/ occ. thin SILT layer					
		H	1	2	4	6	Loose sat black f-m SAND w/ 3" layer					

↓ 8-16-72
↓ 8-17-72

PIEZOMETER
INSTALLED
8-16-72

INSPECTOR AC Rice

CS 7-241

LOG OF TEST BORING

DATE 8-16-72

HOLE NO. 4

PROJECT DOG POUND - ANIMAL SHELTER

GRD. ELEV. _____

LOCATION PER PLAN

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
					Bnn silty SAND & WOOD				
	5	A	2 16 11	27	clayey sandy SILT w/ WOOD		moist	Mixed gray & bnn	
		B	8 8 11	19	WOOD		moist	bnn	
					Rubber & WOOD on Augers				
		C	8 4 3	7	No Recovery				
	10	D	1 2 1	3	PAPER & WOOD w/ OIL		moist	white & black	
		E	0 1 1	2	GARBAGE, PAPER, WOOD ck.		moist	Black white Red	
	15	F	5 5 2	7	WOOD & PAPER w/ OIL		moist	Black & bnn	
		G	3 4 6	10	WIRE, OIL, PAPER, WOOD SAND & SILT mixed		moist	bnn & black	
	20	H	6 10 7	17	WOOD & ORGANICS		moist	bnn & black	
		I	2 4 1	5	CLAY-SILT & PAPER		wet	Gray white black	8-18-72 8-17-72
	25	J	1 1 2	3	No Recovery				
		K	1/9"	2	Fibrous ORGANIC SILT	Very soft	wet	bnn	PIEZO INSTALLED 8-16-72 SAND IN TIP.
	30	L			Heaved 18" @ 29 F L				

WOOD & PAPER MIXED W/ SOME SOILS, METAL, OIL & GARBAGE

BOTTOM 8-16-72

INSPECTOR AC Rice

OS 7-241

LOG OF TEST BORING

DATE 8-16-72

HOLE NO. 5

PROJECT DOG POUND - ANIMAL SHELTER GRD. ELEV. _____

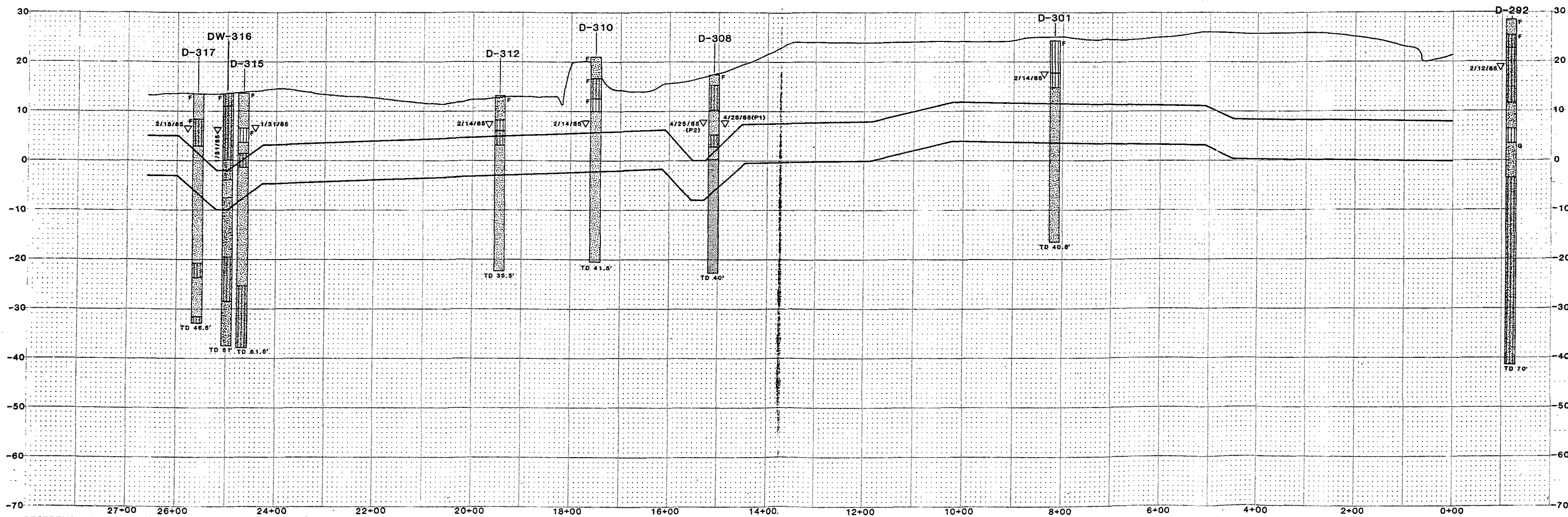
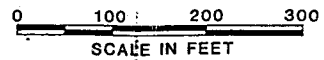
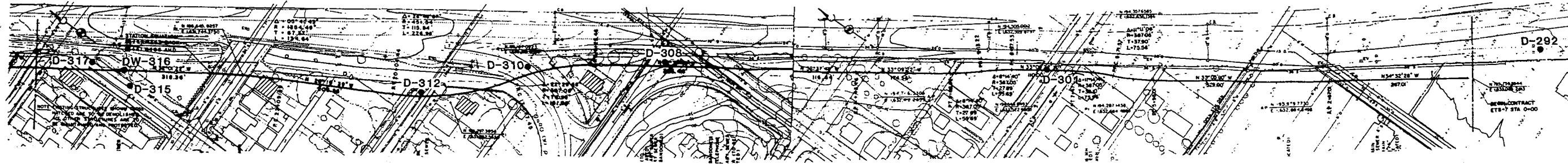
LOCATION PER PLAN

STRATA	DEPTH	SAMPLE NO.	BLOW COUNT	STD. PEN.	DESCRIPTION OF MATERIAL				WATER LEVEL
					COMPOSITION	CONSISTENCY	MOISTURE	COLOR	
					BRN SILTY SAND & WOOD & STEEL				
	5	A 3	3 8 11		SILTY SAND w/ GRAVEL SOME WOOD, ROCK IN BOTTOM	FIRM	MOIST	GRAY	
		B 16	6 11 17		WOOD & PAPER		MOIST		
	10	C 6	3 1 4		SILTY SAND & GRAVEL WOOD & CLOTH	LOOSE	MOIST	GRAY	
		D 2	15 20 35		WOOD & PAPER & GARBAGE		MOIST	GRAY WHITE & GREEN	
	15	E 1	2 3 5		WOOD, PAPER, METAL		MOIST	BLACK GRAY WHITE	
		F 5	16 28 44		WOOD w/ SILTY SAND & GRAVEL IN TIP		MOIST	BLACK BRN	
	20	G 11	6 1 7		SAND & GRAVEL w/ SILT WOOD & CREOSOTE IN TIP		MOIST	GRAY BLACK	
		H 6	6 10 16		WOOD		MOIST	GRAY	
	25	I 4	8 11 13		WOOD		MOIST	GRAY	
		J 1	2 3 5		WOOD & SHELL CHIPS WOOD CHIPS		SAT	BLK BRN	↓ 8-16-72
		K 2	3 4 7		WOOD CHIPS		SAT	BRN	↓ 8-17-72
	30	- 1	1 - 1		SILT w/ SOME WOOD	VERY SOFT	SAT	BRN	↓ 8-17-72

WOOD MIXED w/ PAPER, METAL, GARBAGE & SOME SILTY SAND w/ GRAVEL

PIEZOMETER
INSTALLED
8-16-72
SAND IN
TIP

INSPECTOR



REFERENCE: Base map drawn by Systems Architects Engineers, Inc.

URS ENGINEERS
Engineering and Environmental Consultants
Seattle, Washington

Converse Consultants
Geotechnical Engineering and Applied Sciences

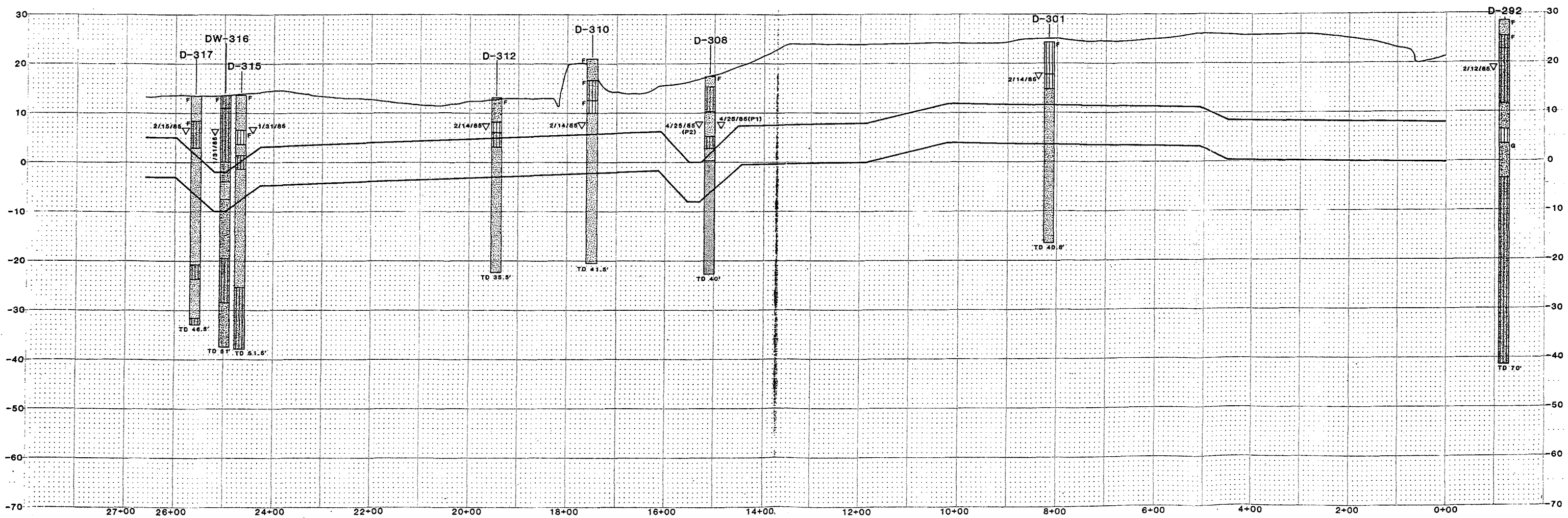
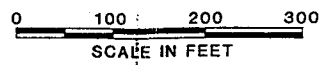
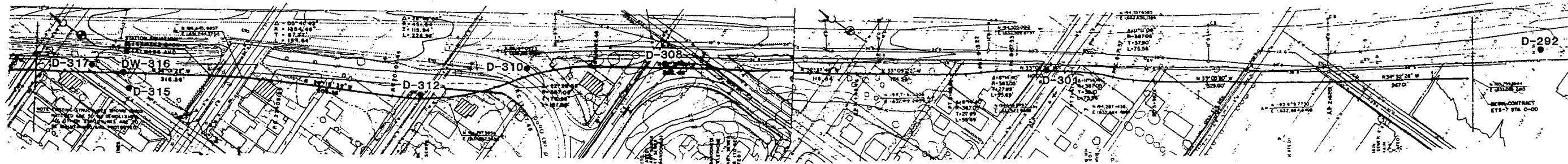
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DRAWN BY: WS APPROVED BY: JCB
CHECKED BY: WRH DATE: MAY 1985

SCALE NOTED
CONTRACT NUMBER CW/F2-82

METRO Municipality of Metropolitan Seattle
RENTON EFFLUENT TRANSFER SYSTEM
PLAN AND PROFILE - PROJECT SECTION ETS 7
STATION 0+00 TO 26+00

DATE: 5/17/85
ARMS:
FILE: 84-5226
DRAWING NUMBER
SHEET 1 of 4

NO.	REVISION	BY	DATE



REFERENCE: Base map drawn by Systems Architects Engineers, Inc.

URS ENGINEERS
Engineering and Environmental Consultants
Seattle, Washington

Converse Consultants
Geotechnical Engineering and Applied Sciences

DESIGNED BY: _____
DRAWN BY: WS
CHECKED BY: WRH

PROJ. ENGR. JCB
APPROVED BY: JCB
DATE: MAY 1985

SCALE: NOTED
CONTRACT NUMBER: CW/F2-82

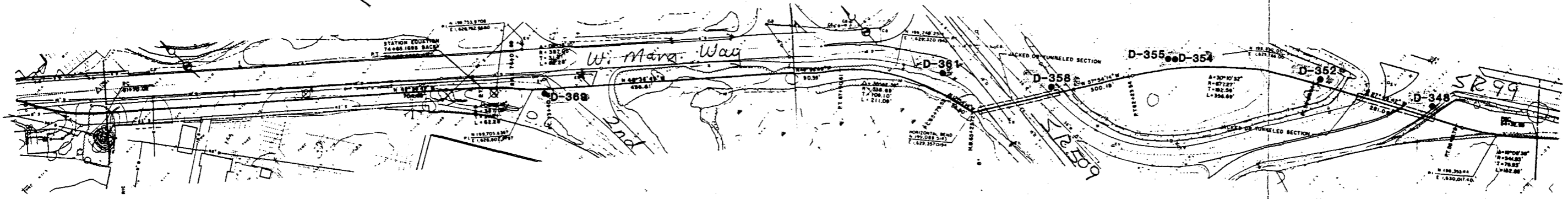
METRO Municipality of Metropolitan Seattle
RENTON EFFLUENT TRANSFER SYSTEM
PLAN AND PROFILE - PROJECT SECTION ETS 7
STATION 0+00 TO 26+00

DATE: 5/17/85
ARMS:
FILE: 84-5226
DRAWING NUMBER:
SHEET 1 OF 4

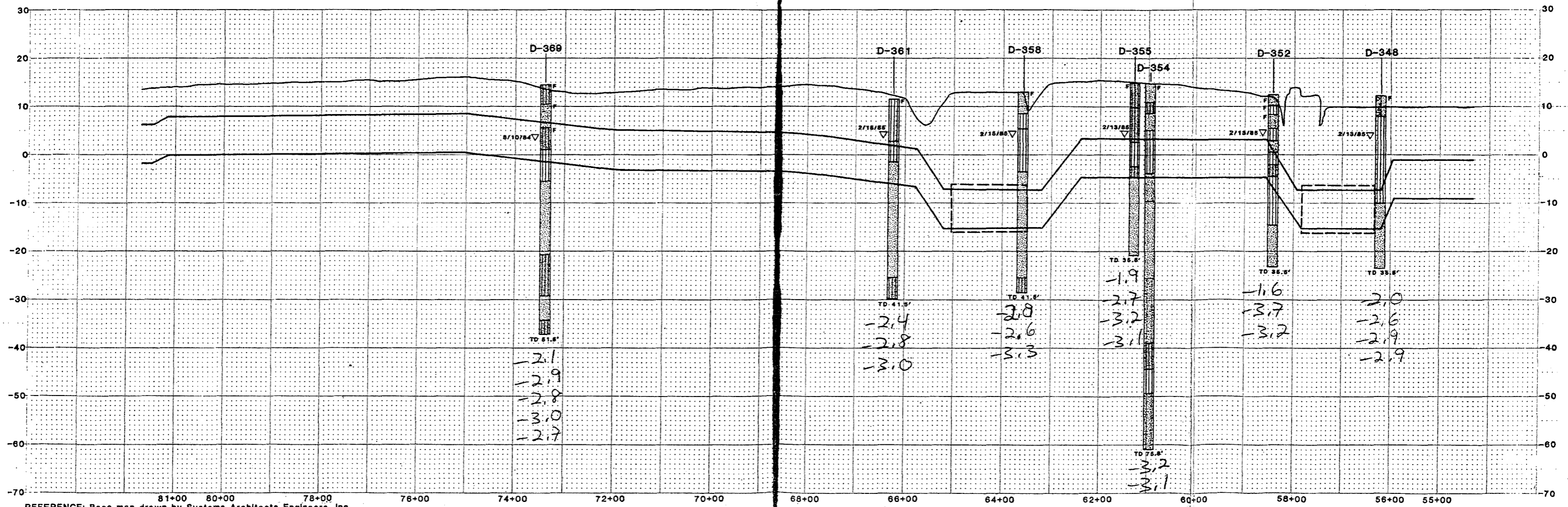
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95-914



0 100 200 300
SCALE IN FEET



REFERENCE: Base map drawn by Systems Architects Engineers, Inc.

URS ENGINEERS
Engineering and Environmental Consultants
Seattle, Washington

Converse Consultants
Geotechnical Engineering and Applied Sciences

DESIGNED BY: PROJ. ENGR. JCB
DRAWN BY: WS APPROVED BY: JCB
CHECKED BY: WRH DATE: MAY 1985

SCALE NOTED
CONTRACT NUMBER CW/F2-82

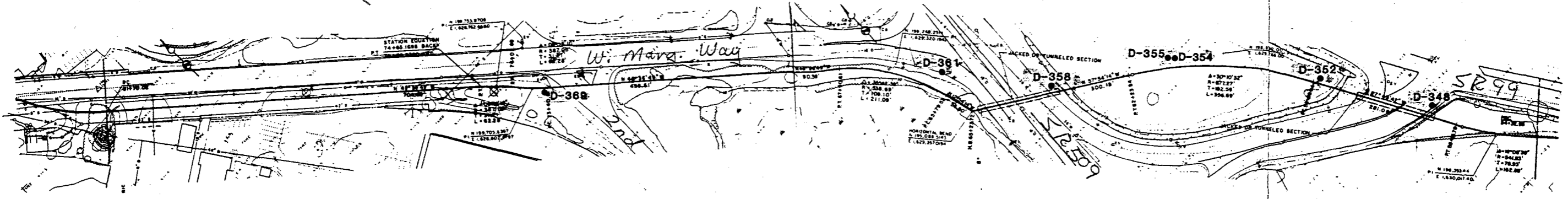
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RENTON EFFLUENT TRANSFER SYSTEM
PLAN AND PROFILE - PROJECT SECTION ETS 7
STATION 55+00 TO 81+00

DATE: 5/17/85
FILE: 84-5226
DRAWING NUMBER
SHEET 3 OF 4

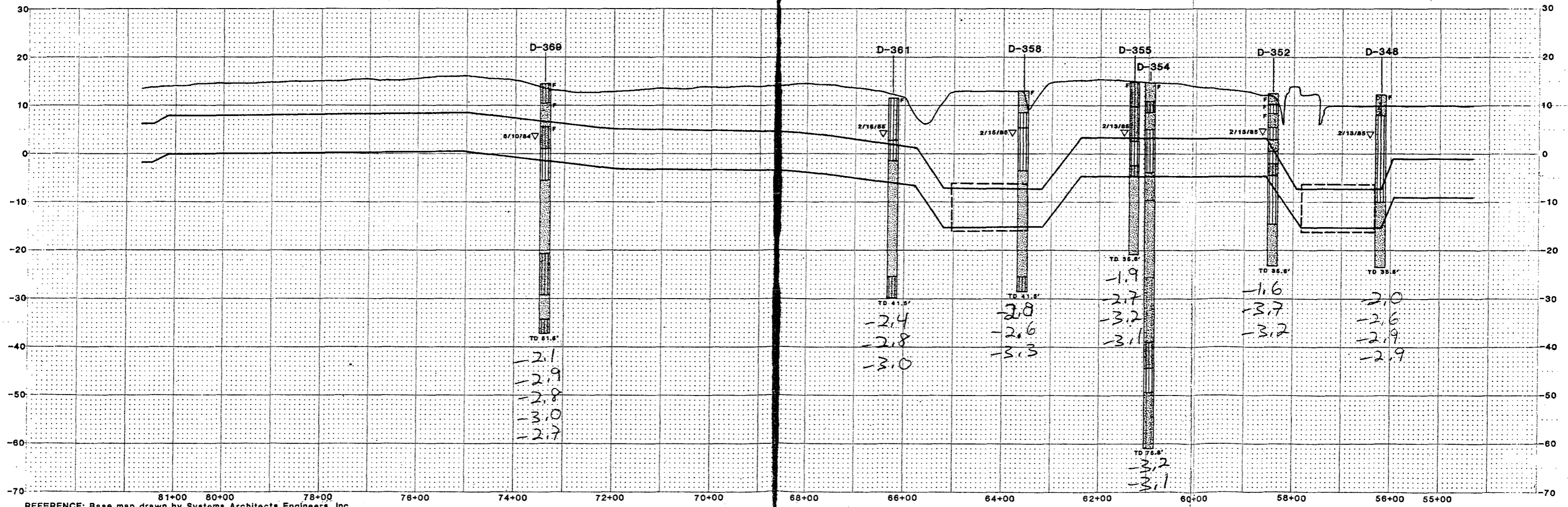
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SK-914



0 100 200 300
SCALE IN FEET



REFERENCE: Base map drawn by Systems Architects Engineers, Inc.

URS ENGINEERS
Engineering and Environmental Consultants
Seattle, Washington

Converse Consultants
Geotechnical Engineering and Applied Sciences

DESIGNED BY: PROJ. ENGR. JCB
DRAWN BY: WS APPROVED BY: JCB
CHECKED BY: WRH DATE: MAY 1985

SCALE NOTED
CONTRACT NUMBER CW/F2-82

METRO Municipality of Metropolitan Seattle
RENTON EFFLUENT TRANSFER SYSTEM
PLAN AND PROFILE - PROJECT SECTION ETS 7
STATION 55+00 TO 81+00

DATE: 5/17/85
FILE: 84-5226
DRAWING NUMBER
SHEET 3 OF 4

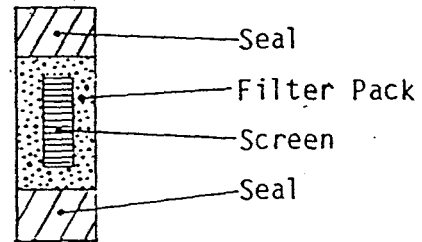
NO.	REVISION	BY	DATE

BORING LOG LEGEND

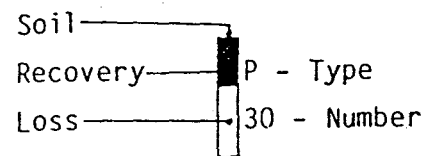
GRAPHIC REPRESENTATION

	SANDY GRAVEL, GRAVEL AND SAND
	GRAVELLY SAND, SAND AND GRAVEL
	SAND
	SILTY SAND, SAND AND SILT
	SANDY SILT, SILT AND SAND
	SILT, CLAYEY SILT
	SILTY CLAY, CLAY
	SEDIMENTARY ROCK
	IGNEOUS ROCK

PIEZOMETER DETAIL



SAMPLE LOCATION



SAMPLE TYPES

- B Grab sample - hand collected from auger or bit
- M Bailer sample - mixed and hand collected
- C Cutting sample - hand collected from drill fluid return or bailer
- RD 3" O.D. split barrel ring sampler - driven with 300 lb. down hole slip-jar hammer with 30" drop
- RS 3" O.D. split barrel ring sampler - driven with a 140 lb. surface hammer with 30" drop
- SPT 2" O.D. split spoon sampler - driven with 140 lb. surface hammer with 30" drop
- SS 2" O.D. split spoon sampler - driven with 300 lb. down hole slip-jar hammer with 30" drop
- P Pitcher sampler - 3" O.D. thin walled shelby tube pushed with rotating cutting barrel
- SH 3" O.D. thin walled shelby tube - pushed with hydraulics

LABORATORY TESTS






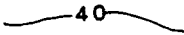
- | | |
|---------------------------------------|------------------------------------|
| G Grain size distribution | T Petrographic thin section |
| C Consolidation | UC Unconfined compression |
| CU Consolidated, undrained triaxial | DS Direct shear |
| -200 No. 200 standard sieve wash | Moisture Content - % of dry weight |
| UU Unconsolidated, undrained triaxial | Dry Density - lbs. per cubic foot |

ATTERBERG LIMITS

- | | |
|---------------------|------------------|
| LL Liquid limit | PL Plastic limit |
| PI Plasticity index | |

NOTE: See Appendix A text for description of additional data presented on boring logs.

LEGEND








- D-189  Boring performed for Preliminary Design of RETS
-  Boring by others, surface elevation at time of drilling
- 103.0  Elevation of boring
-  Elevation of top of bedrock
Depth of bedrock
- NR  No bedrock encountered
-  Approximate elevation contour of top of rock
Contours based on review of available information

Geologic Units



- F Fill
- G Glacial deposits
- L Glacial lacustrine deposits


Lithologic Units

Soil

-  Sandy gravel, gravel and sand,
sand and gravel, silty sandy gravel
-  Gravelly sand
-  Sand
-  Sand, little silt
-  Silty sand, silt and sand, sand and silt, sandy silt
-  Silt, clayey silt
-  Silty clay, clay

Rock

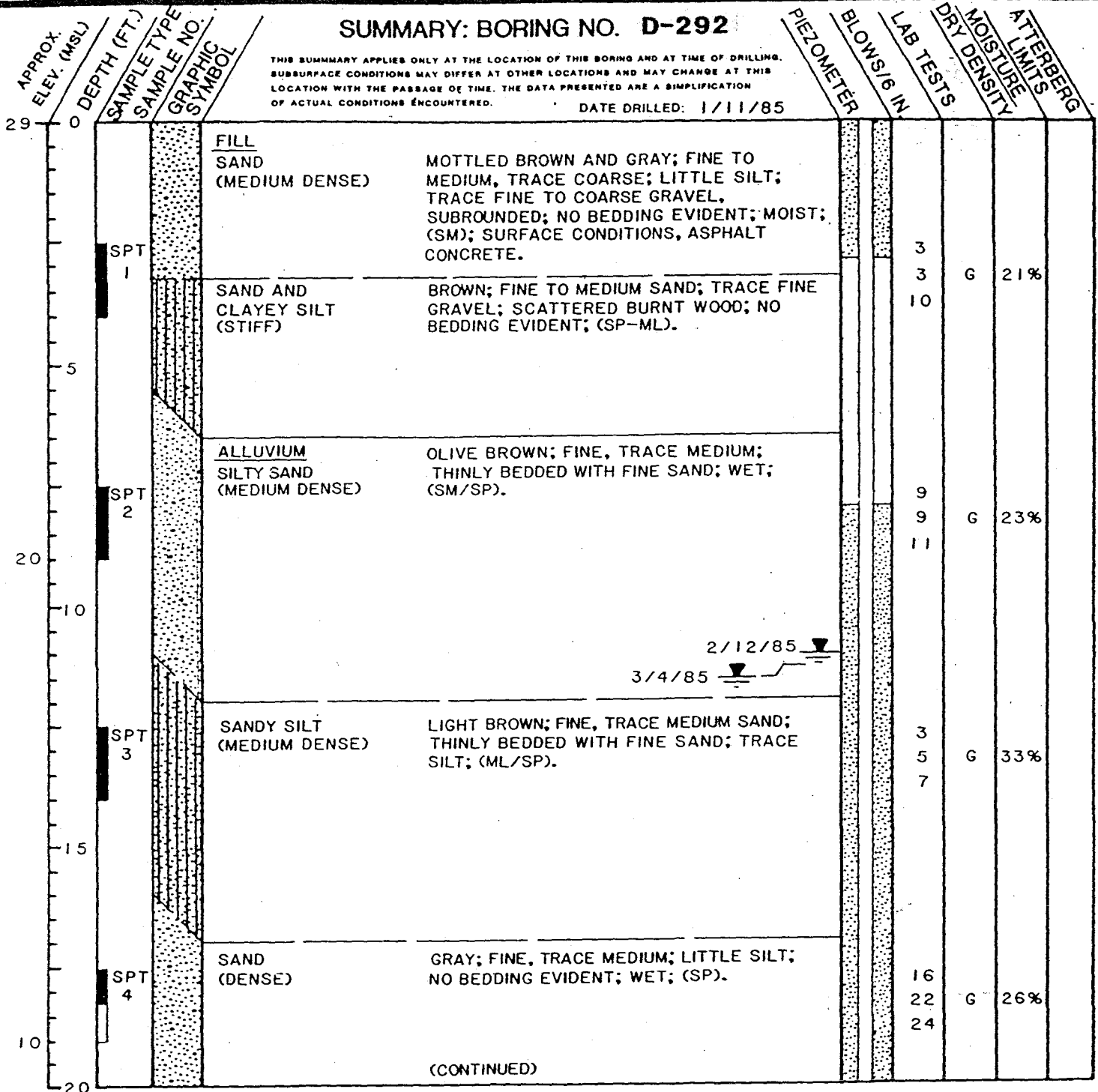
-  Sandstone, siltstone
-  Basalt, andesite

 METRO Municipality of Metropolitan Seattle			
DATE	FEB 85	U R S ENGINEERS	Converse Consultants
BY	WES	RENTON EFFLUENT TRANSFER SYSTEM	
APPROVED	JCB	EXPLANATION OF SYMBOLS	
			SCALE
			FILE NO.
			SHEET OF

SUMMARY: BORING NO. D-292

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/11/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 16" DROP
- P FITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
DRY DENSITY - POUNDS PER CUBIC FOOT

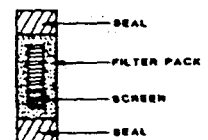
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTEBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTEBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

Project No.

275-05G

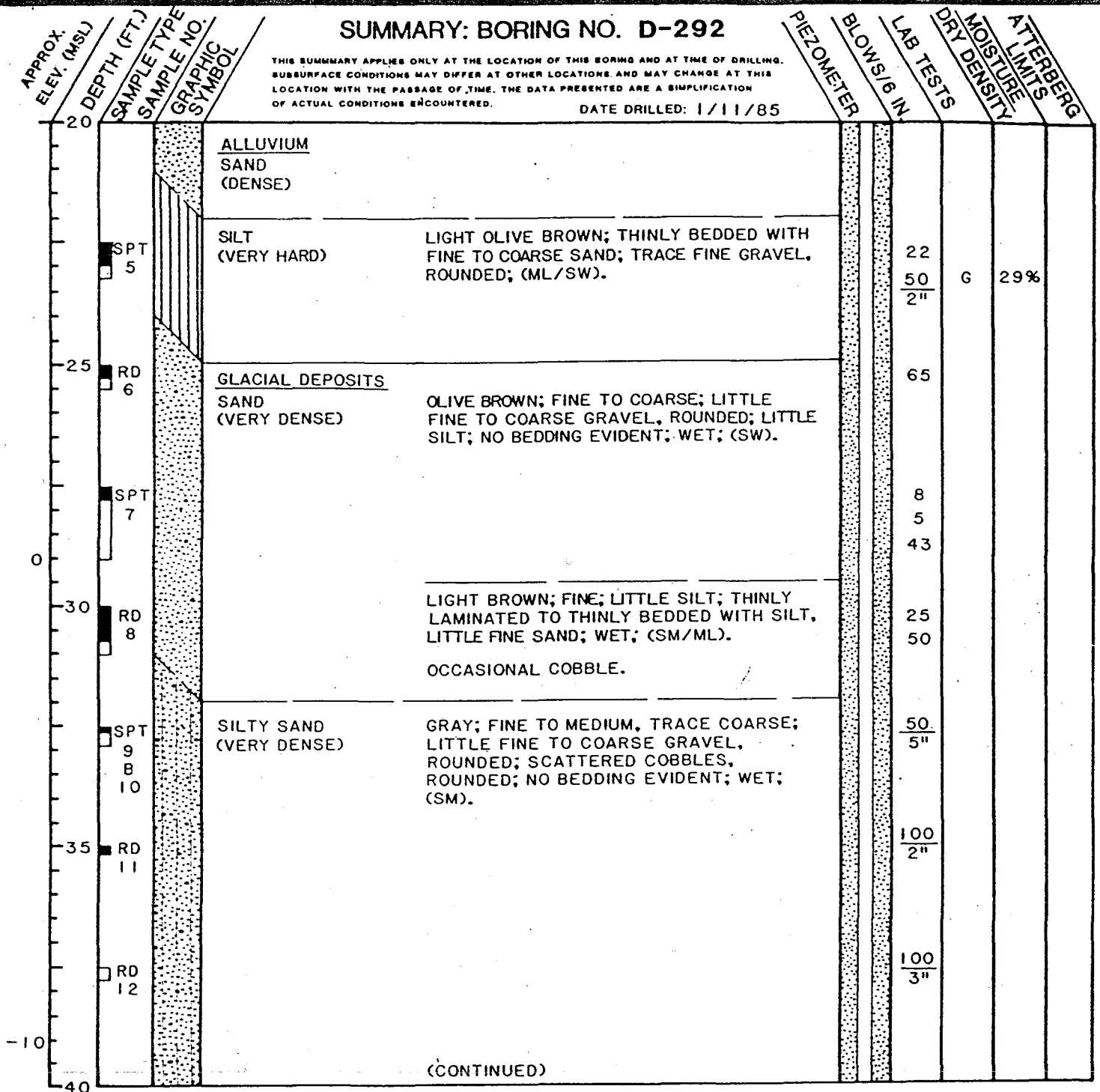
Drawing No.

A-2

SUMMARY: BORING NO. D-292

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DATE DRILLED: 1/11/85



(CONTINUED)

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- S SAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 5" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 5" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

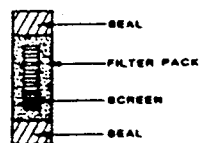
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

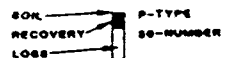
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

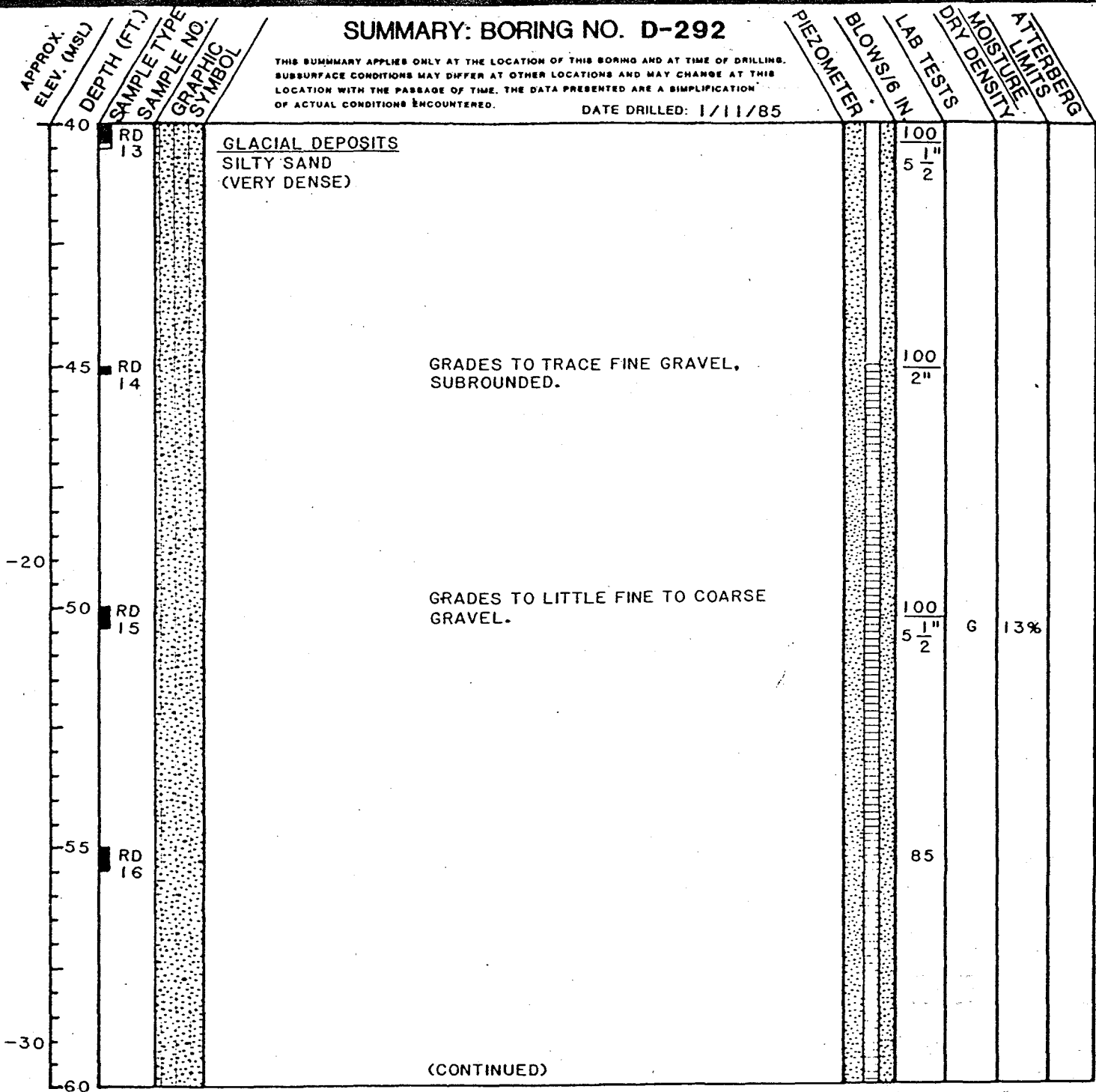
Project No.
 275-05G

Drawing No.

SUMMARY: BORING NO. D-292

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DATE DRILLED: 1/11/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 5" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 5" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SB SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 5" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 5" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

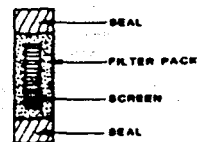
LABORATORY TESTS

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- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.

275-05G

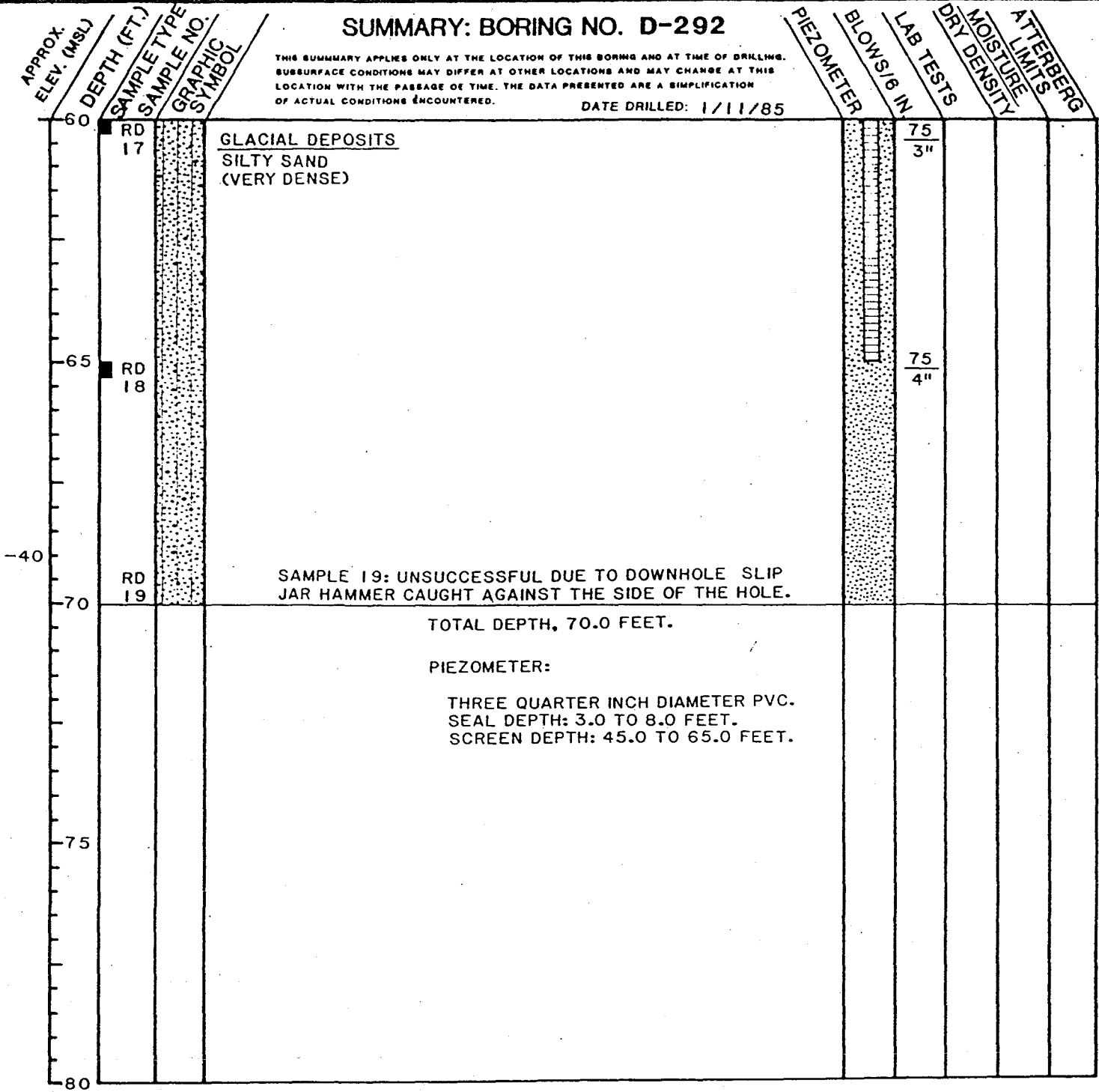
Drawing No.

A-4

SUMMARY: BORING NO. D-292

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/11/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M SAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 8" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 16" DROP
- P PITCHER SAMPLER - 8" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 8" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

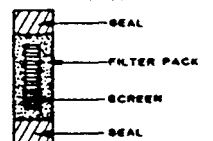
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

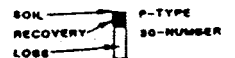
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
275-05G

Drawing No.



GEO/RESOURCE CONSULTANTS, INC.

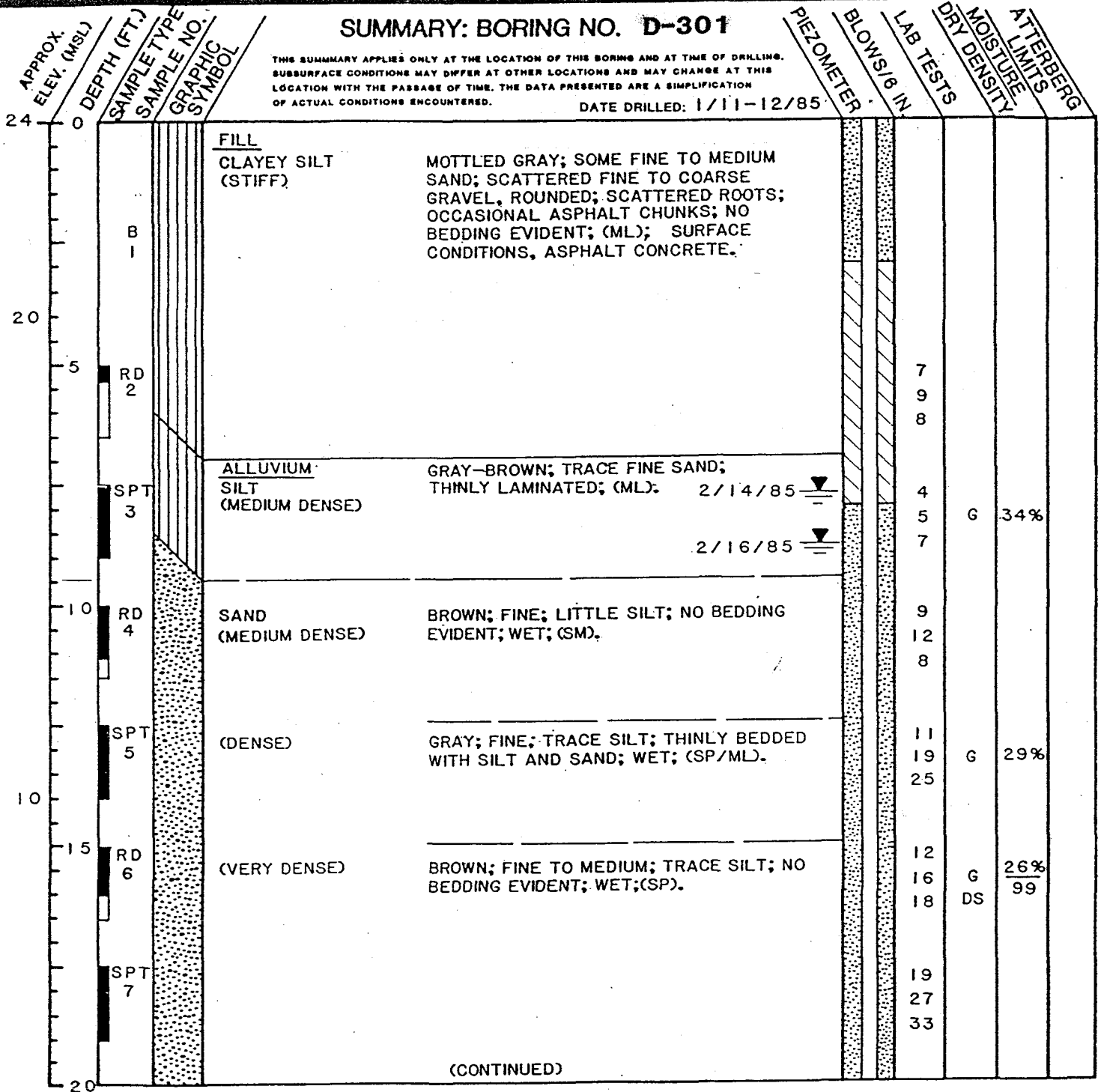
Geologists/Geophysicists/Geotechnical Engineers

A-5

SUMMARY: BORING NO. D-301

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/11-12/85



(CONTINUED)

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 3" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
DRY DENSITY - POUNDS PER CUBIC FOOT

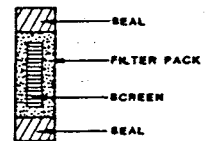
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTEBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

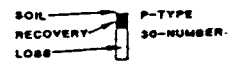
ATTEBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI ELASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

Project No.

275-05G

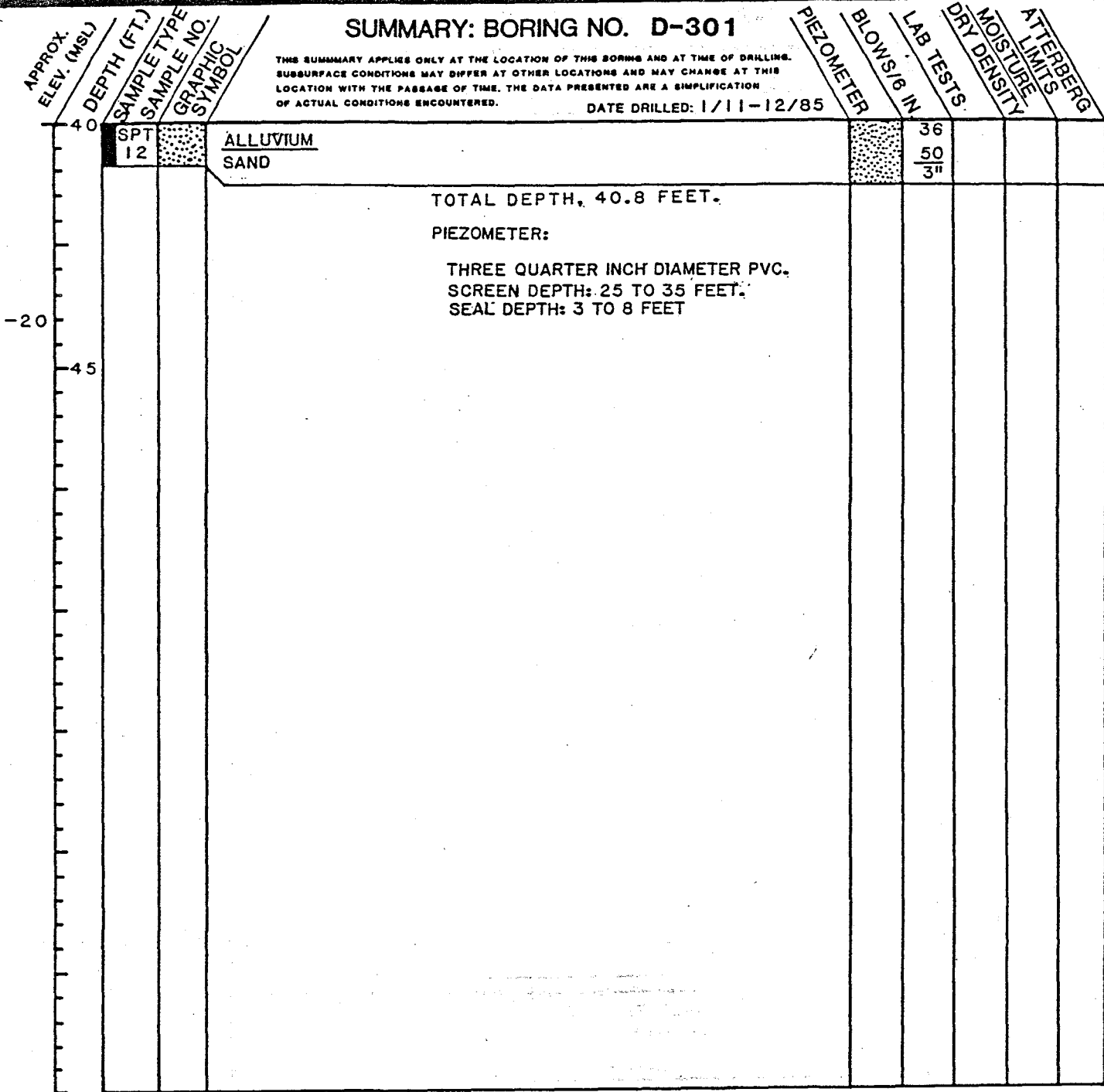
Drawing No.

A-6

SUMMARY: BORING NO. D-301

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DATE DRILLED: 1/11-12/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 1" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 15" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
DRY DENSITY - POUNDS PER CUBIC FOOT

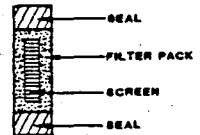
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

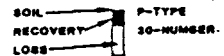
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

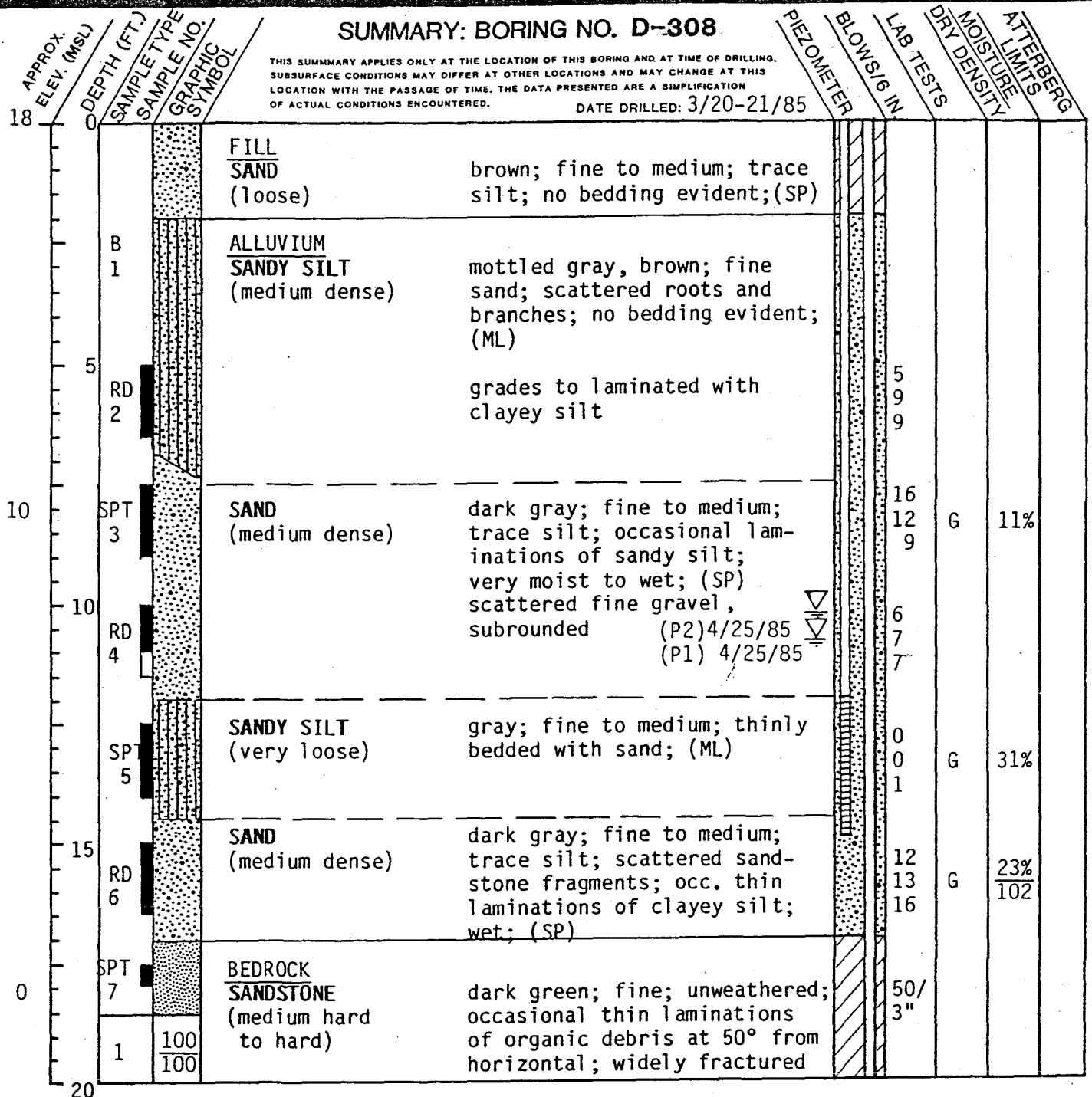
Project No.
275-05G

Drawing No.
A-8

SUMMARY: BORING NO. D-308

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 3/20-21/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 16" DROP
- P FITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 5" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

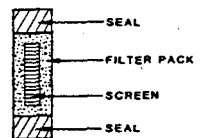
(Continued) LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

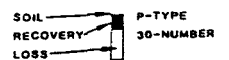
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.

84-5226

Drawing No.

A-9



Converse Consultants

Geotechnical Engineering
 and Applied Sciences

SUMMARY: BORING NO. D-308

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 3/20-21/85

APPROX. ELEV. (MSL)	DEPTH (FT.)	RUN NUMBER	% REC	RQD %	PIEZOMETER	BLOWS/6 IN	LAB TESTS	MOISTURE	DRY DENSITY	ATTERBERG LIMITS
	20									
	1	100	100							
	25	100	68							
	30	100	100							
	35	100	100							
	40	100	0							

BEDROCK SANDSTONE
(medium hard to hard)

at 40° to 60° from horizontal;
planar; rough; clean to clay filled; carbonized organic debris and rounded pebble clasts oriented at 50° from horizontal
medium to widely fractured at 20° to 30° from horizontal

widely fractured

UC 126

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
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- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
DRY DENSITY - POUNDS PER CUBIC FOOT

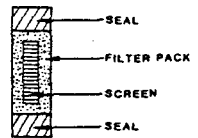
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

Project No.
84-5226

Drawing No.

A-10



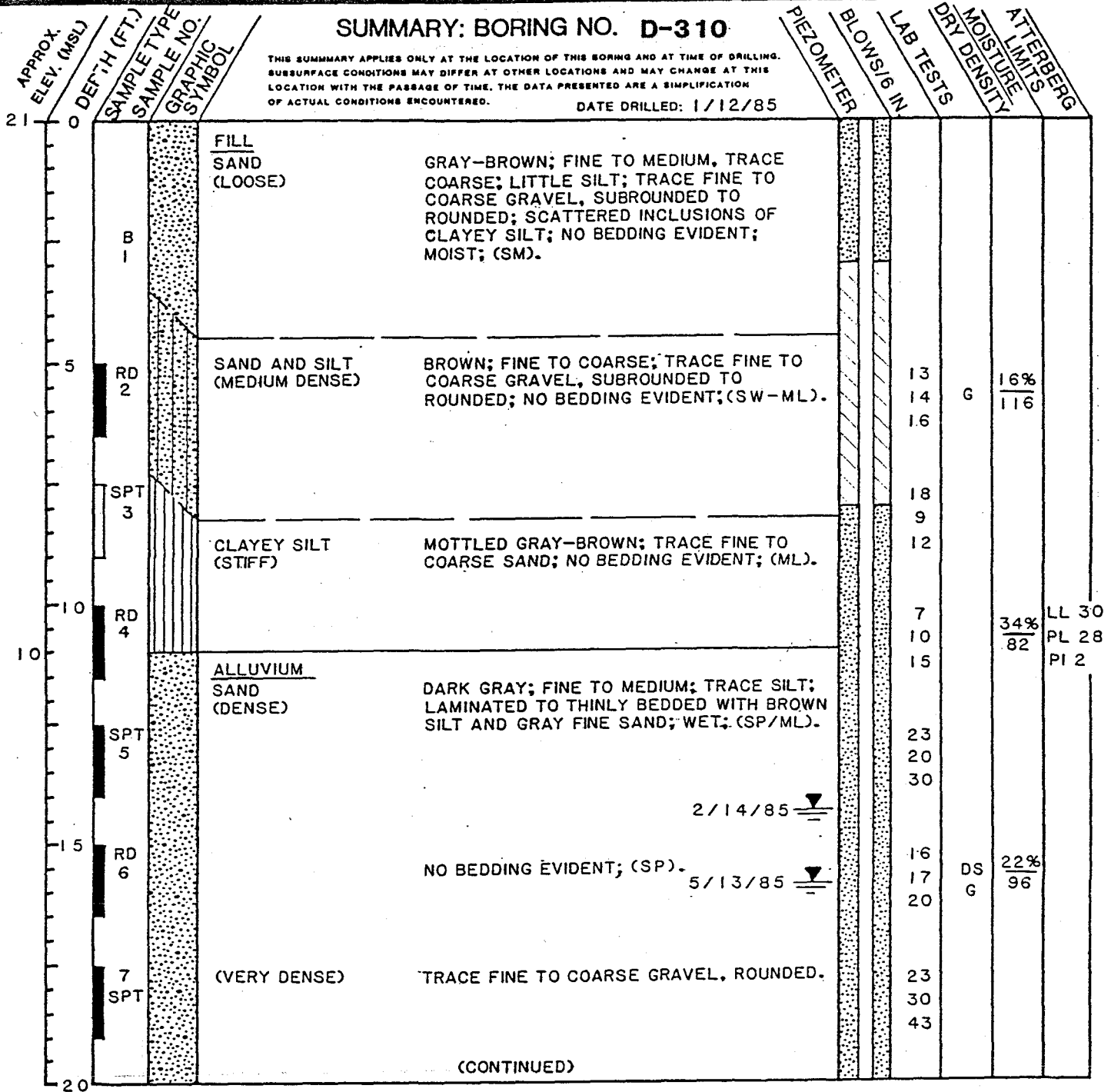
Converse Consultants

Geotechnical Engineering
and Applied Sciences

SUMMARY: BORING NO. D-310

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/12/85



(CONTINUED)

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- CD CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

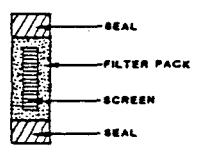
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

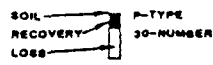
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

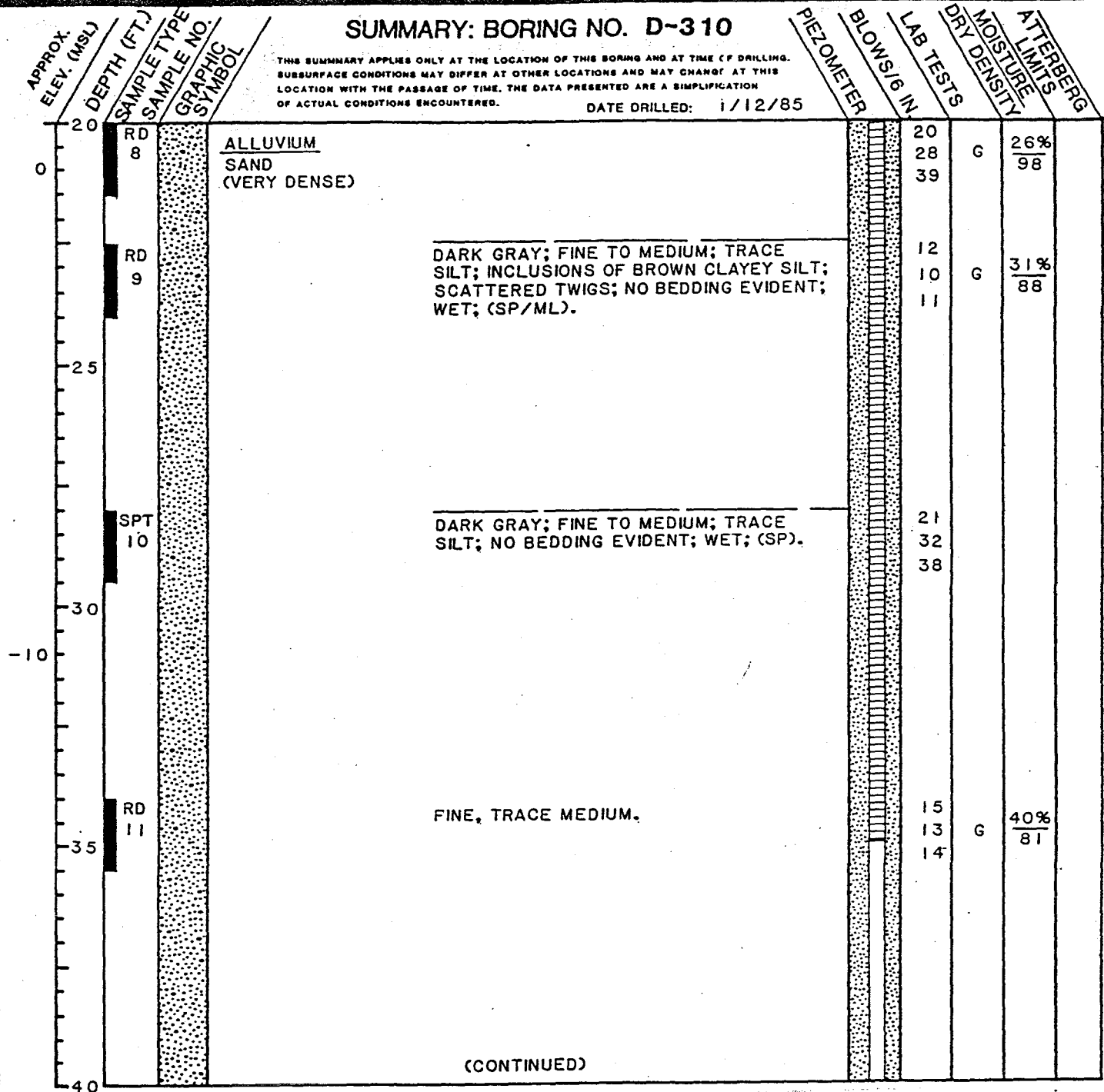
Project No.
 275-05G

Drawing No.
 A-12

SUMMARY: BORING NO. D-310

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DATE DRILLED: 1/12/85



(CONTINUED)

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 3" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

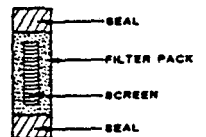
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

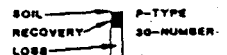
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
 275-05G

SUMMARY: BORING NO. D-310

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/12/85

APPROX. ELEV. (MSL)	DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	GRAPHIC SYMBOL	PIEZOMETER	BLOWS/6 IN.	LAB TESTS	MOISTURE DRY DENSITY	ATTERBERG LIMITS
-20	0	SPT	12	[Symbol]					
		ALLUVIUM SAND (VERY DENSE)							
		GRADES COARSER.							
		TOTAL DEPTH, 41.5 FEET.							
		PIEZOMETER:							
		THREE INCH DIAMETER PVC.							
		SCREEN DEPTH: 20 TO 35 FEET.							
		SEAL DEPTH: 3 TO 8 FEET.							
45									

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 16" DROP
- P FITCHER SAMPLER - 2" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

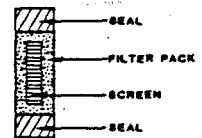
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V VIB VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
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ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.

275-05G

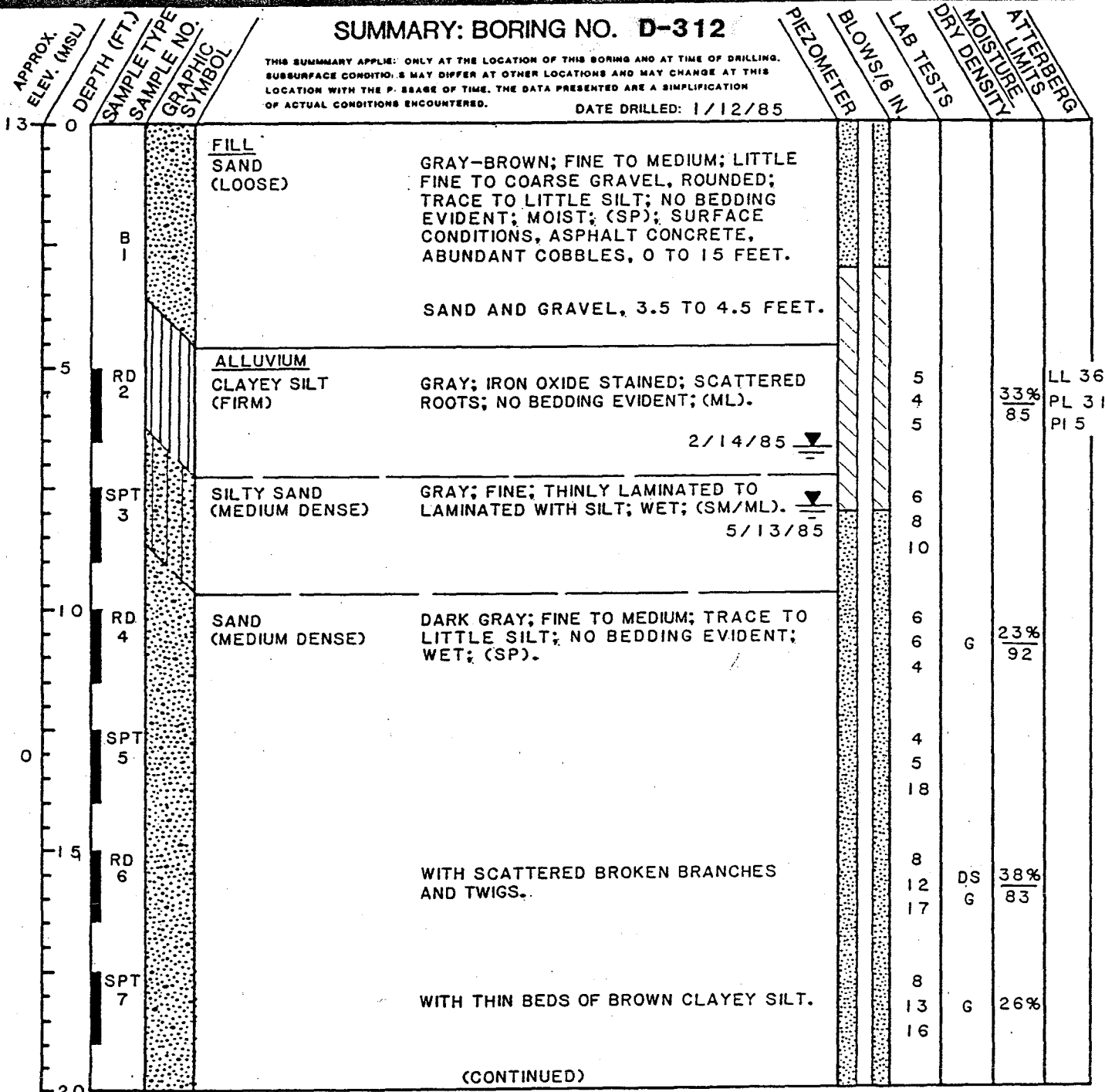
Drawing No.

A-14

SUMMARY: BORING NO. D-312

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/12/85



(CONTINUED)

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 14" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

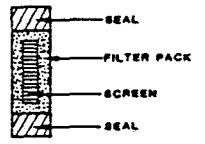
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
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- T PETROGRAPHIC THIN SECTION

ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



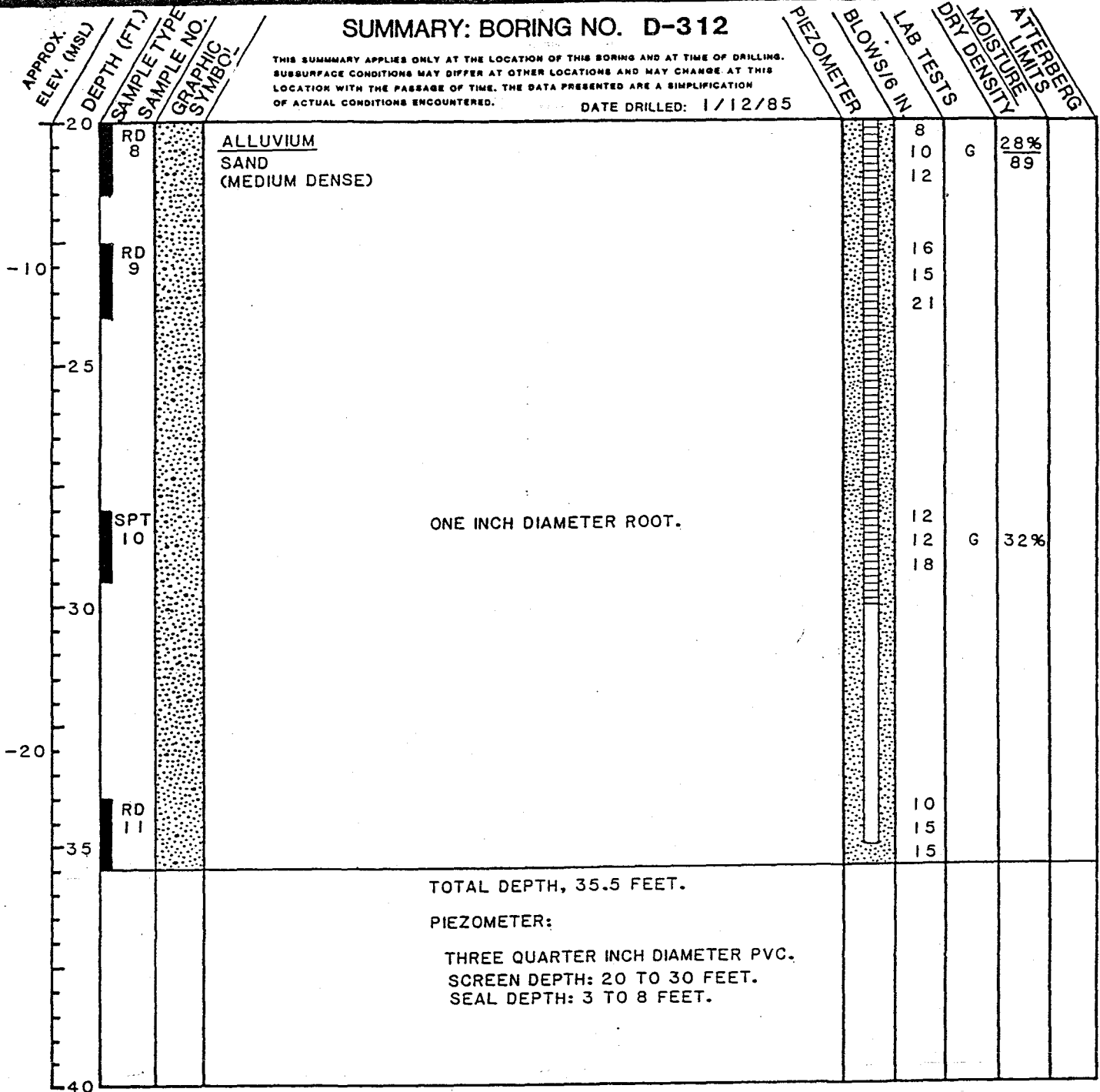
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
275-05G

SUMMARY: BORING NO. D-312

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DATE DRILLED: 1/12/85



SAMPLE TYPES

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- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 16" DROP
- P FITCHER SAMPLER - 5" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

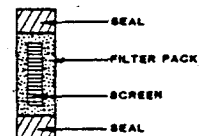
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
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ATTERBERG LIMITS

- LL LIQUID LIMIT
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PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.

275-05G

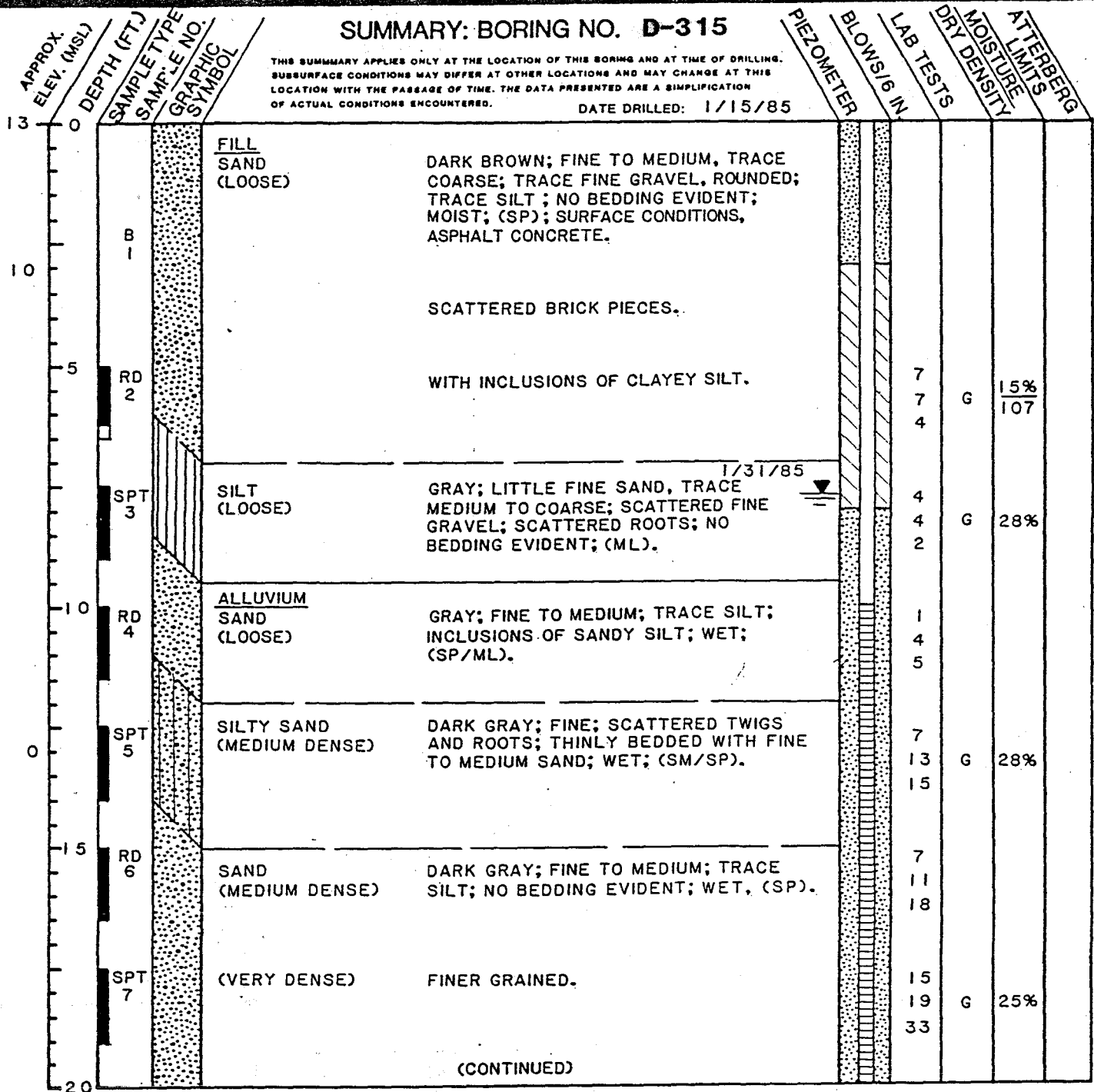
Drawing No.

A-16

SUMMARY: BORING NO. D-315

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/15/85



(CONTINUED)

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SP SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 2" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

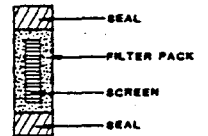
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

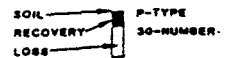
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

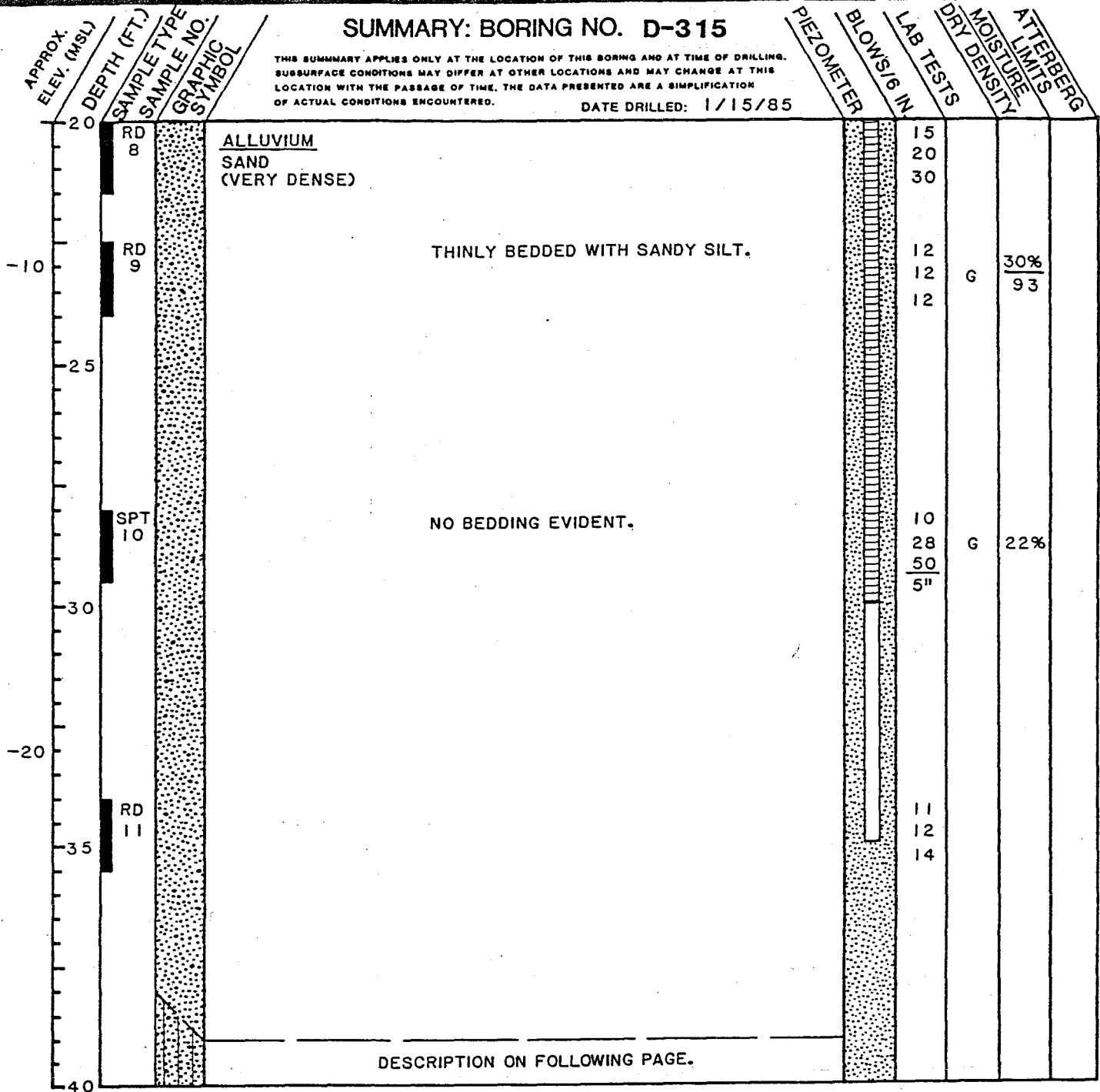
Project No.
 275-05G

Drawing No.
 A-17

SUMMARY: BORING NO. D-315

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/15/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 3" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

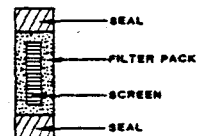
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTEBERG LIMITS
- V VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

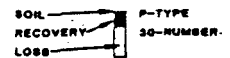
ATTEBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.

275-05G

Drawing No.

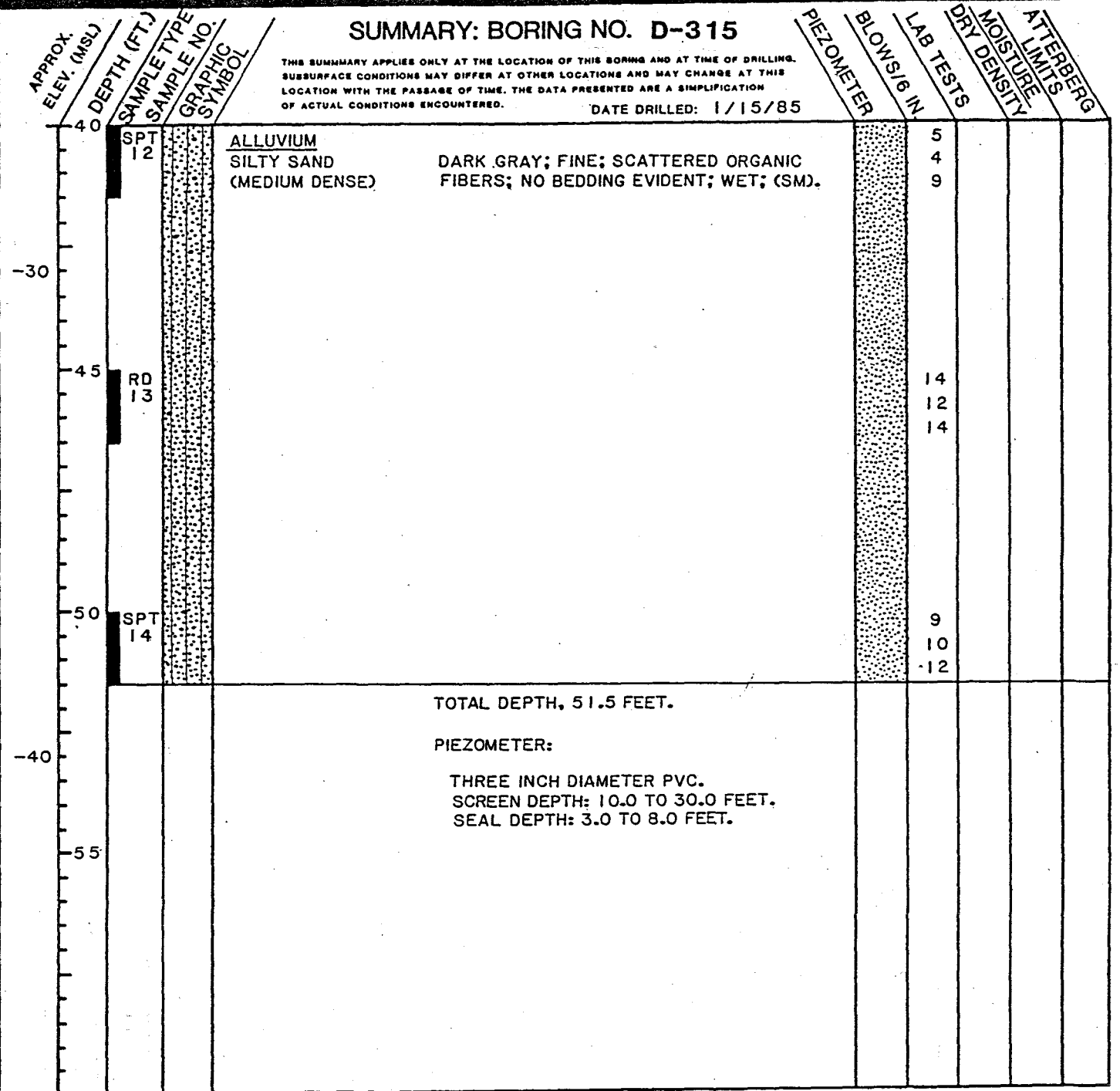
A-18

SUMMARY: BORING NO. D-315

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/15/85

PIEZOMETER
 BLOWS/6 IN
 LAB TESTS
 DRY DENSITY
 MOISTURE
 LIMITS
 ATTERBERG



TOTAL DEPTH, 51.5 FEET.

PIEZOMETER:

THREE INCH DIAMETER PVC.
 SCREEN DEPTH: 10.0 TO 30.0 FEET.
 SEAL DEPTH: 3.0 TO 8.0 FEET.

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M SAUER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 15" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

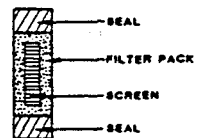
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

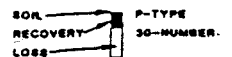
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



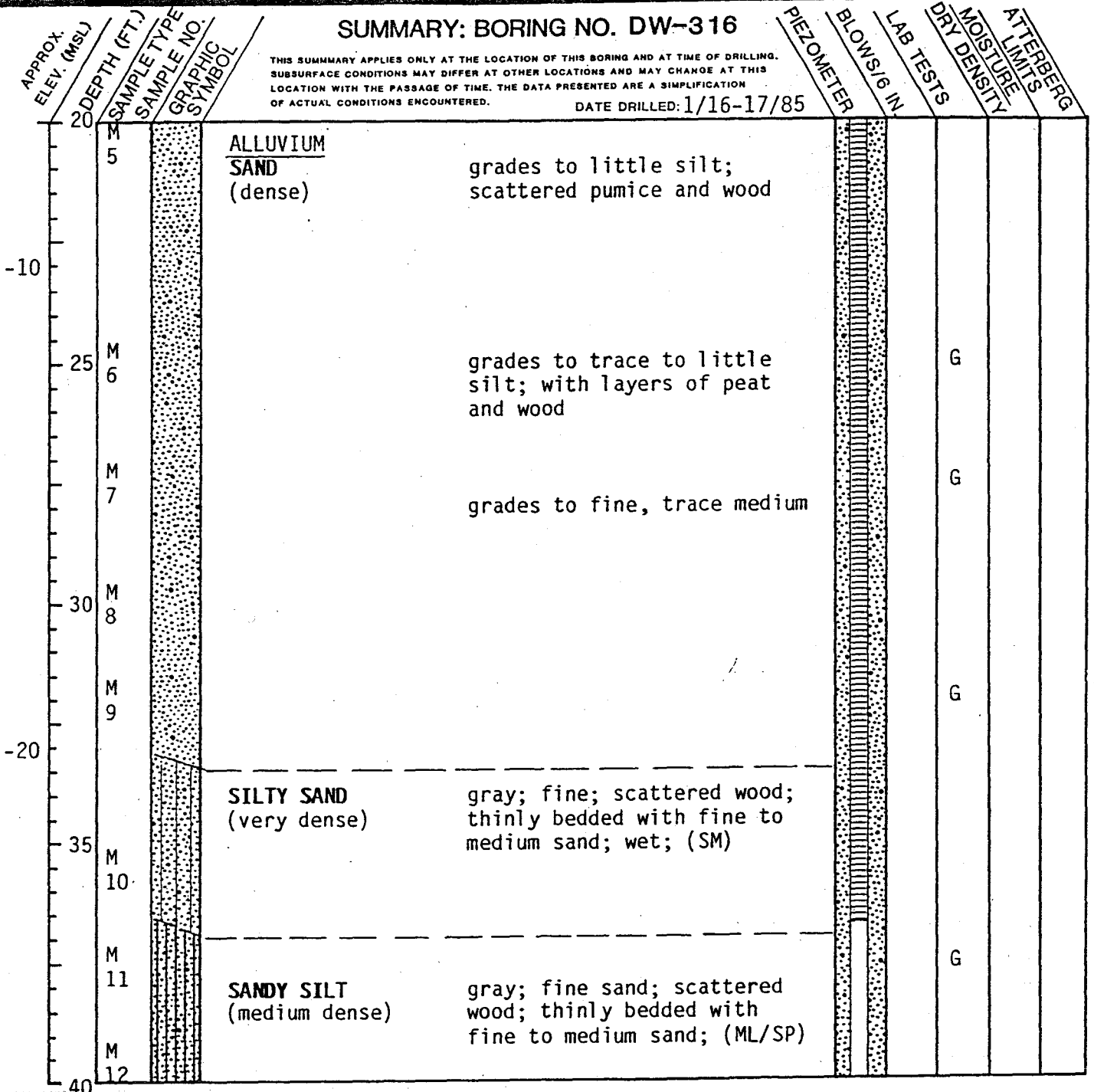
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
275-05G

SUMMARY: BORING NO. DW-316

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/16-17/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

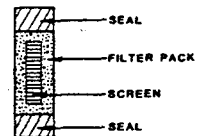
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

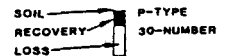
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
 84-5226

Drawing No.



Converse Consultants

Geotechnical Engineering
 and Applied Sciences

A-21

SUMMARY: BORING NO. D-317

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 6/17 - 6/18/84

	ELEV. (FT)	DEPTH (FT)	SAMPLE TYPE	SAMPLE NO.	GRAPHIC SYMBOL		PIEZOMETER	BLOWS/6 IN	LAB TESTS	MOISTURE LIMITS	ATTERBERG
13			B	1		<p><u>FILL</u> SAND (LOOSE)</p> <p>LIGHT BROWN; FINE TO MEDIUM; TRACE SILT; TRACE FINE TO COARSE GRAVEL, ROUNDED; TRACE INCLUSIONS OF GRAY SILT; NO BEDDING EVIDENT; MOIST; (SP).</p>					
		5	RD	2		<p><u>SILTY SAND</u> (LOOSE)</p> <p>LIGHT BROWN; FINE TO MEDIUM; SCATTERED INCLUSIONS OF SILT; NO BEDDING EVIDENT; MOIST TO WET; (SM).</p> <p style="text-align: right;">2/15/85 </p> <p style="text-align: right;">7/12/84 </p>		5 4 4			
		10	RD	3		<p><u>ALLUVIUM</u> SAND (VERY LOOSE)</p> <p>GRAY; FINE, TRACE MEDIUM; TRACE SILT; TRACE FINE GRAVEL; SCATTERED INCLUSIONS OF SILT; NO BEDDING EVIDENT; WET; (SP).</p>		0 0 0			
		0	RD	4		<p>(LOOSE)</p> <p>DARK GRAY; FINE TO MEDIUM.</p>		5 7 8	G	27% 98	
		15	SPT	5		<p>(DENSE)</p>		15 17 14			
			RD	6				7 12 14			
		20	SPT	7				15 25 27			
(CONTINUED)											

NOTE: SEE BORING LEGEND FOR EXPLANATION OF SYMBOLS, AND CLASSIFICATION SYSTEM.

RENTON EFFLUENT TRANSFER SYSTEM
King County, Washington
for METRO

GRC Project No.
275-4G

SUMMARY: BORING NO. D-317

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 6/17 - 6/18/84

ELEV. (FT) DEPTH (FT) SAMPLE TYPE GRAPHIC SYMBOL PIEZOMETER BLOWS/6 IN. LAB TESTS DRY DENSITY MOISTURE ATTERBERG LIMITS

RD 16	ALLUVIUM SANDY SILT (MEDIUM DENSE)	GRAY; FINE SAND, TRACE MEDIUM; NO BEDDING EVIDENT; (ML). TOTAL DEPTH, 46.5 FEET. PIEZOMETER: THREE INCH DIAMETER PVC. SCREEN DEPTH: 35.0 TO 45.0 FEET.	4 6 9	G	31% 92
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NOTE: SEE BORING LEGEND FOR EXPLANATION OF SYMBOLS, AND CLASSIFICATION SYSTEM.

RENTON EFFLUENT TRANSFER SYSTEM
 King County, Washington
 for METRO

GRC Project No.
275-4G

SUMMARY: BORING NO. D-322

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/16/85

APPROX. ELEV. (MSL)

DEPTH (FT.)

SAMPLE TYPE

SAMPLE NO.

GRAPHIC SYMBOL

PIEZOMETER

BLOWS/6 IN

LAB TESTS

DRY DENSITY

MOISTURE

LIMITS

ATTERBERG

RD 7	ALLUVIUM SILT (LOOSE)	GRAY-BROWN; LITTLE FINE SAND; SCATTERED ROOTS AND ORGANIC FIBERS; NO BEDDING EVIDENT; (ML).	2 3 5	DS C	41% 80
TOTAL DEPTH, 21.5 FEET. PIEZOMETER: THREE INCH DIAMETER PVC. SEAL DEPTH: 3 TO 8 FEET. SCREEN DEPTH: 10 TO 20 FEET.					

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 1.5" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- BH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

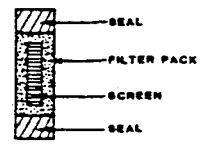
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V VME VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

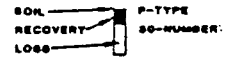
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

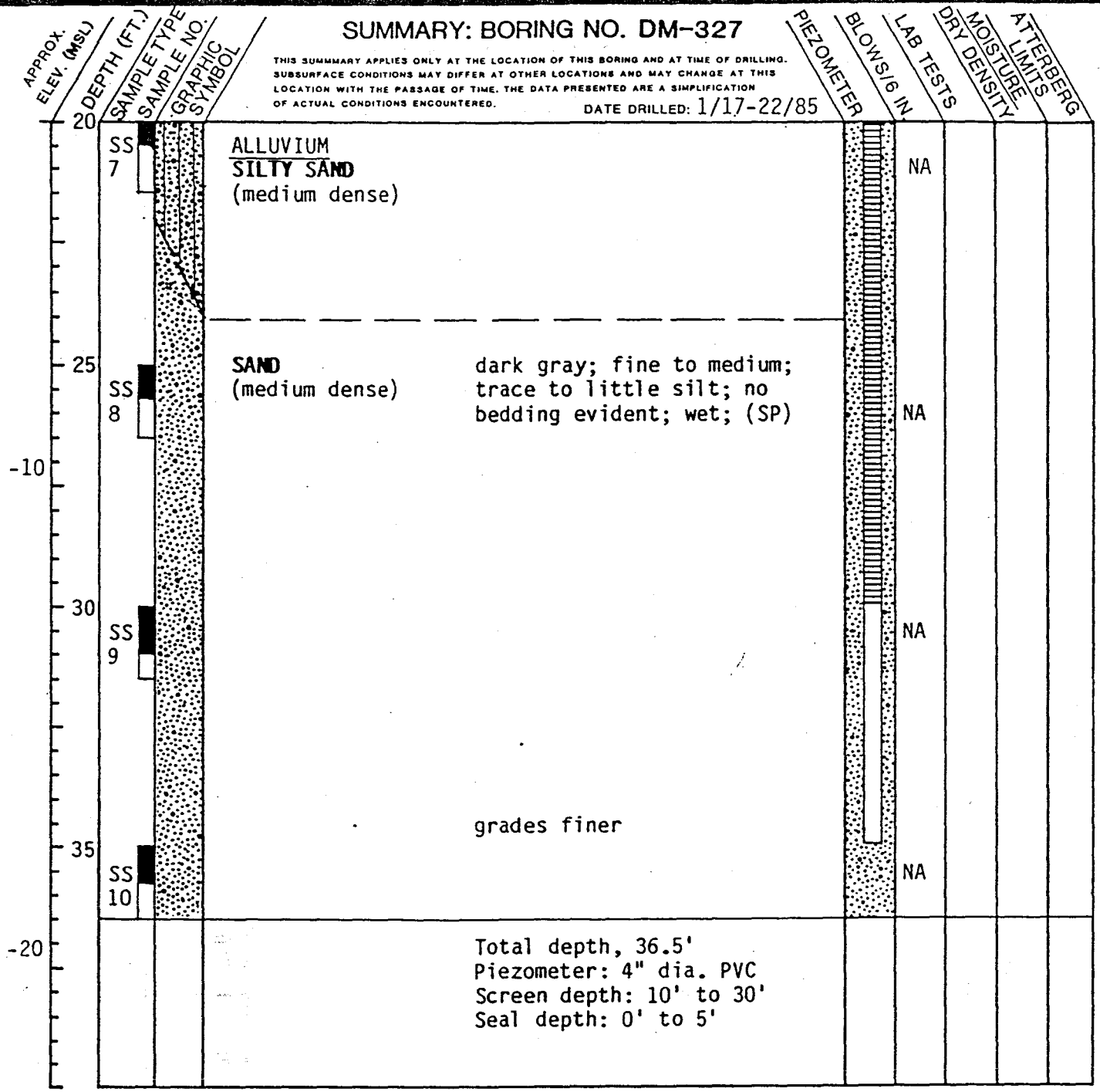
Project No.
275-05G

Drawing No.
A-27

SUMMARY: BORING NO. DM-327

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/17-22/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 16" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

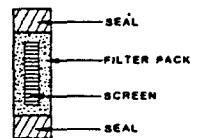
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

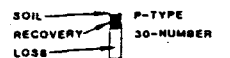
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for METRO

Project No.
84-5226



Converse Consultants

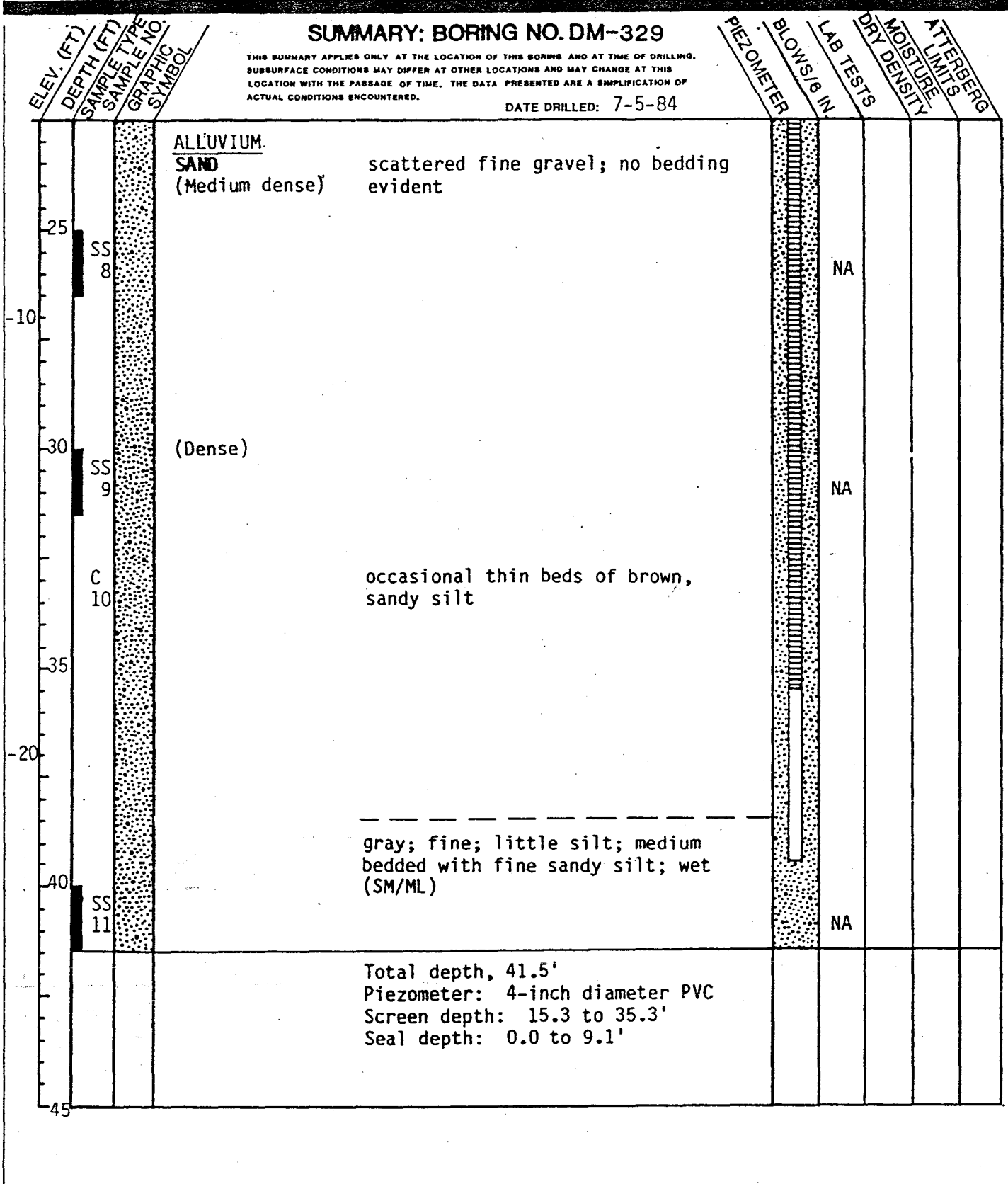
Geotechnical Engineering
 and Applied Sciences

Drawing No.
A-29

SUMMARY: BORING NO. DM-329

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 7-5-84



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

Project No.
84-5164

Drawing No.
A-31



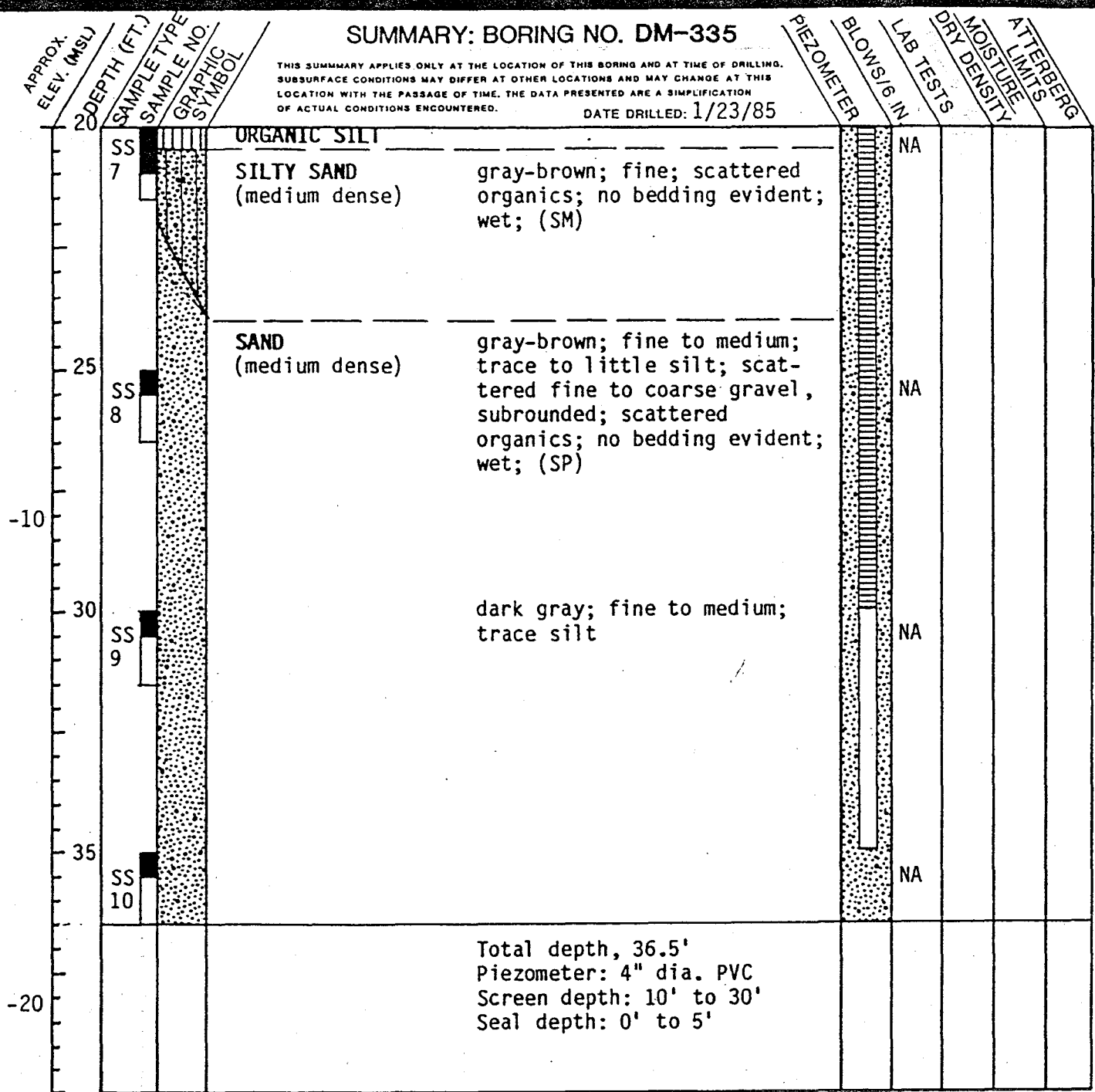
Converse Consultants

Geotechnical Engineering
and Applied Sciences

SUMMARY: BORING NO. DM-335

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/23/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

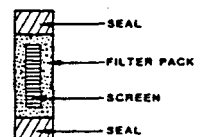
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

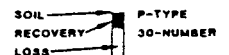
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
 84-5226



Converse Consultants

Geotechnical Engineering
 and Applied Sciences

Drawing No.
 A-33

SUMMARY: BORING NO. D-340

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 7-7-84

ELEV. (FT)	DEPTH (FT)	SAMPLE TYPE	SAMPLE NO.	GRAPHIC SYMBOL		PIEZOMETER	BLOWS/6 IN	LAB TESTS	MOISTURE	ATTERBERG LIMITS
		RD	7	[Dotted Pattern]	ALLUVIUM SAND (Dense)					
		RD	8	[Dotted Pattern]						
-10	25	RD	8	[Dotted Pattern]				9 7 9		
		RD	8	[Dotted Pattern]				17 19 21	G	25% 96
					scattered organic fibers, roots, and broken twigs					
		RD	9	[Dotted Pattern]				14 20 30		
		RD	10	[Dotted Pattern]				7 8 12		
-20	35	SPT	11	[Horizontal Lines]	(Medium dense) trace coarse sand; no organics			16 9 4		
		RD	12	[Horizontal Lines]	medium bedded with silt			3 4 12		
					Total depth, 41.5' Piezometer: 3-inch diameter PVC Screen depth: 31.5 to 41.5' Seal depth: 8.0 to 10.0'					
-30	45									

RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

Project No.
84-5164



Converse Consultants

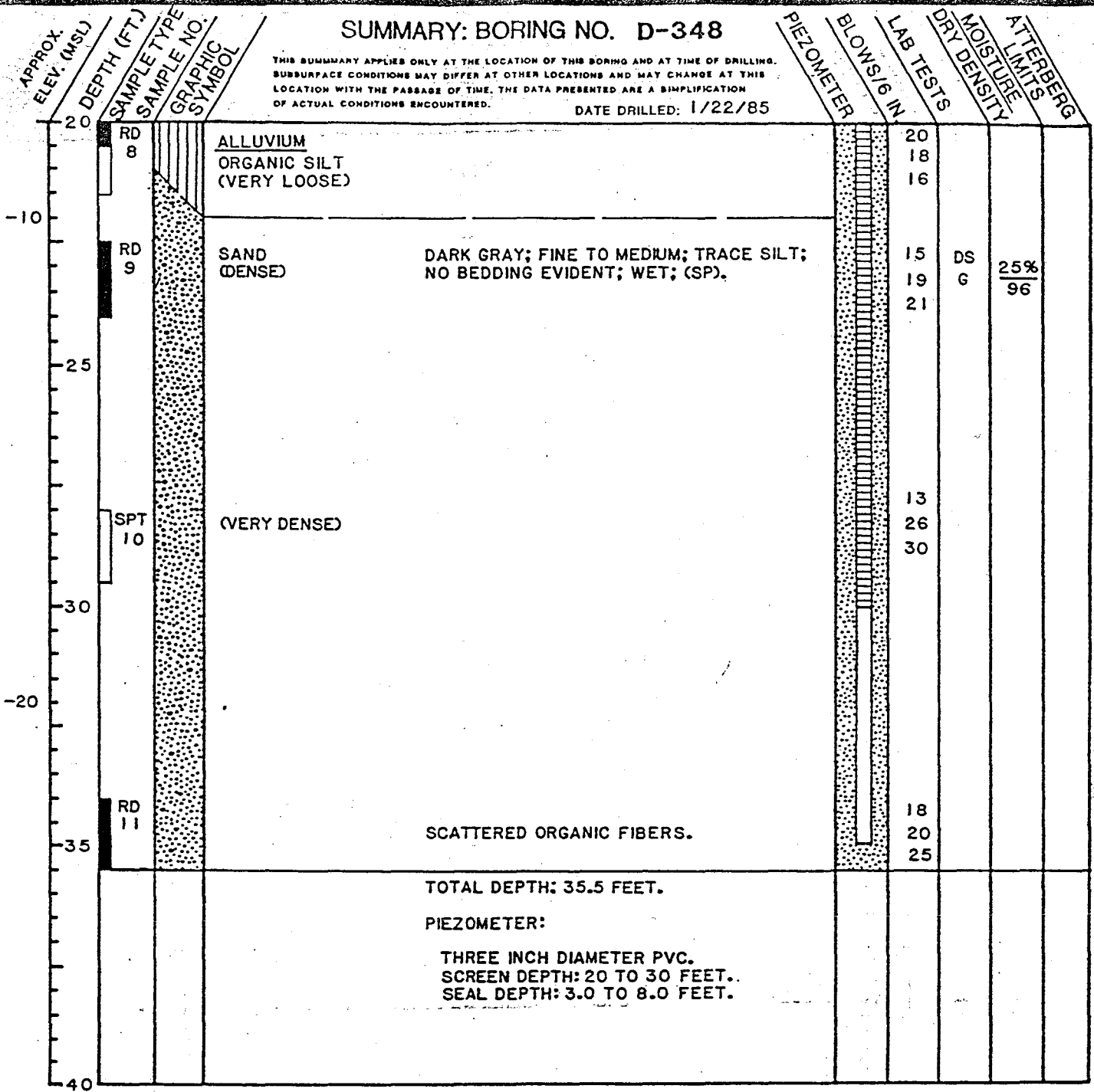
Geotechnical Engineering
and Applied Sciences

Drawing No.
A-35

SUMMARY: BORING NO. D-348

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/22/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 3" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 15" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

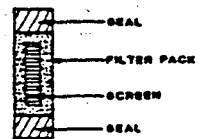
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V VIBRATORY SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

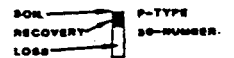
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



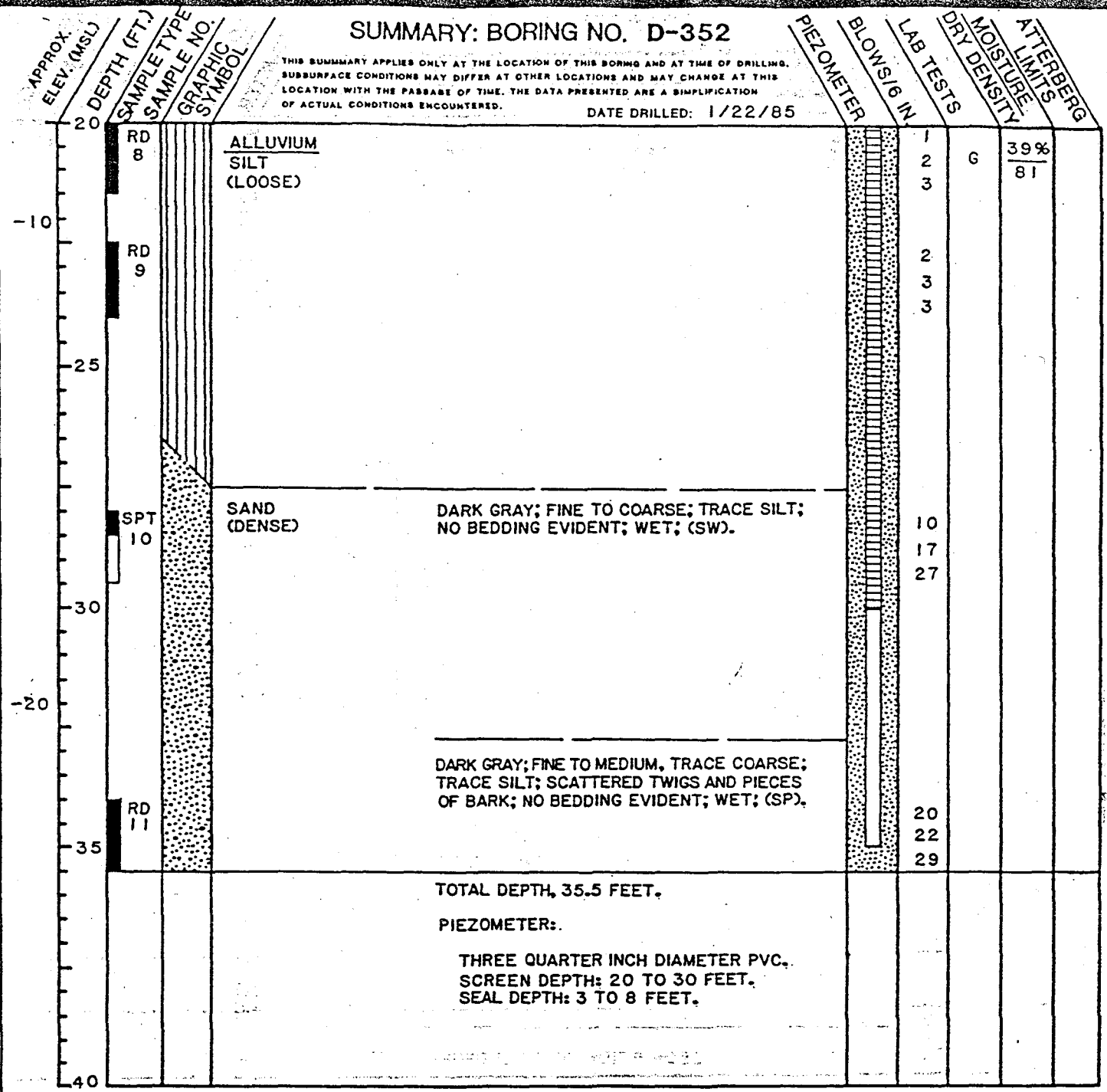
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
 275-05G

SUMMARY: BORING NO. D-352

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/22/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 3" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 56" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

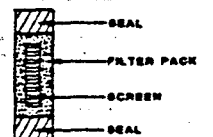
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

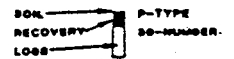
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
 275-05G

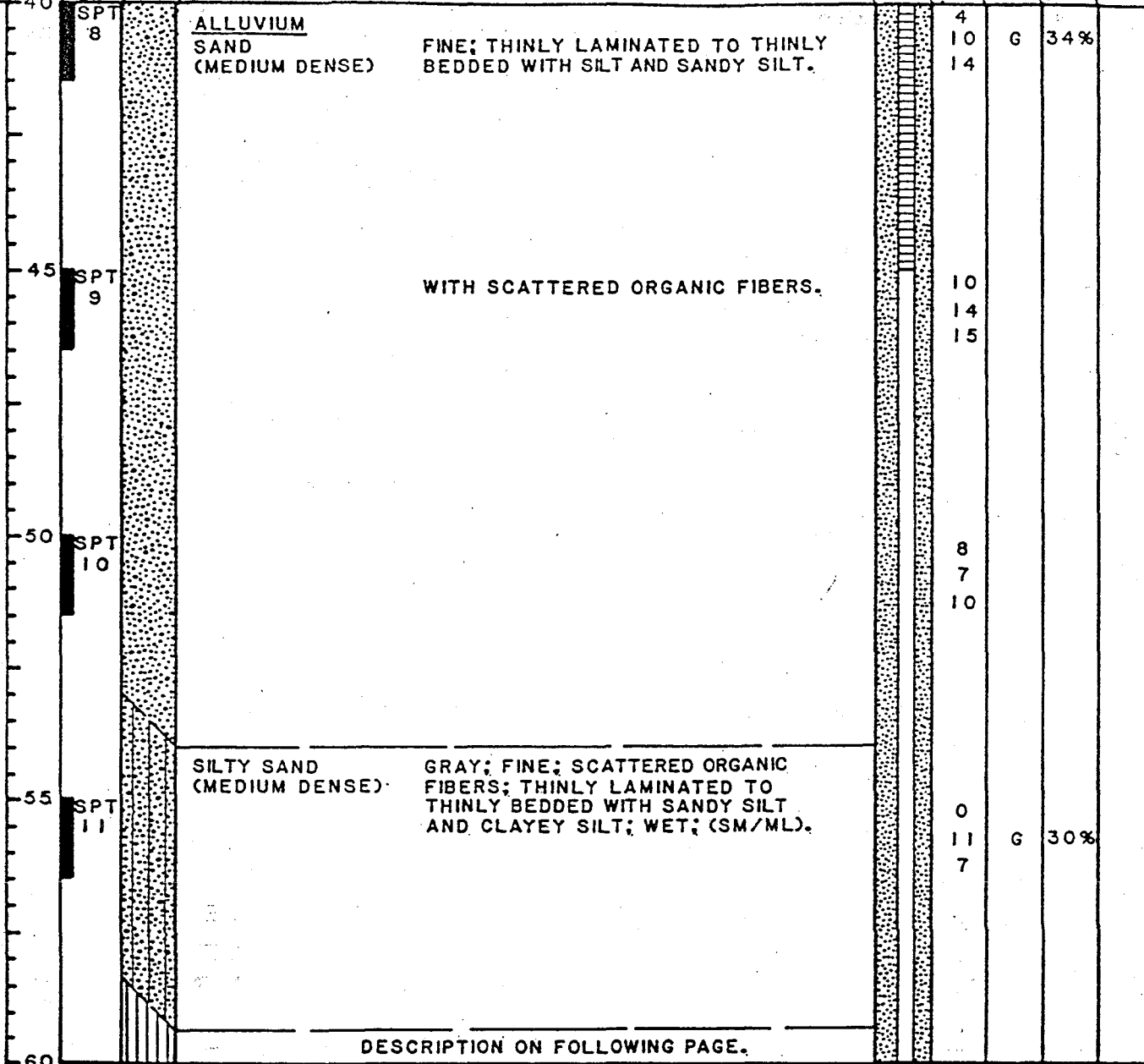
SUMMARY: BORING NO. D-354

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 5/1/85

APPROX. ELEV. (MSL)
 SO DEPTH (FT.)
 SAMPLE TYPE
 SAMPLE NO.
 GRAPHIC SYMBOL

PIEZOMETER
 BLOWS/6 IN
 LAB TESTS
 DRY DENSITY
 MOISTURE
 LIMITS
 ATTERBERG



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 2" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 20" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 2" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 2" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

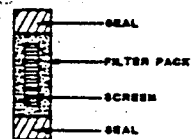
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V VIB VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNGRAINED TRIAXIAL
- CU CONSOLIDATED-UNGRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



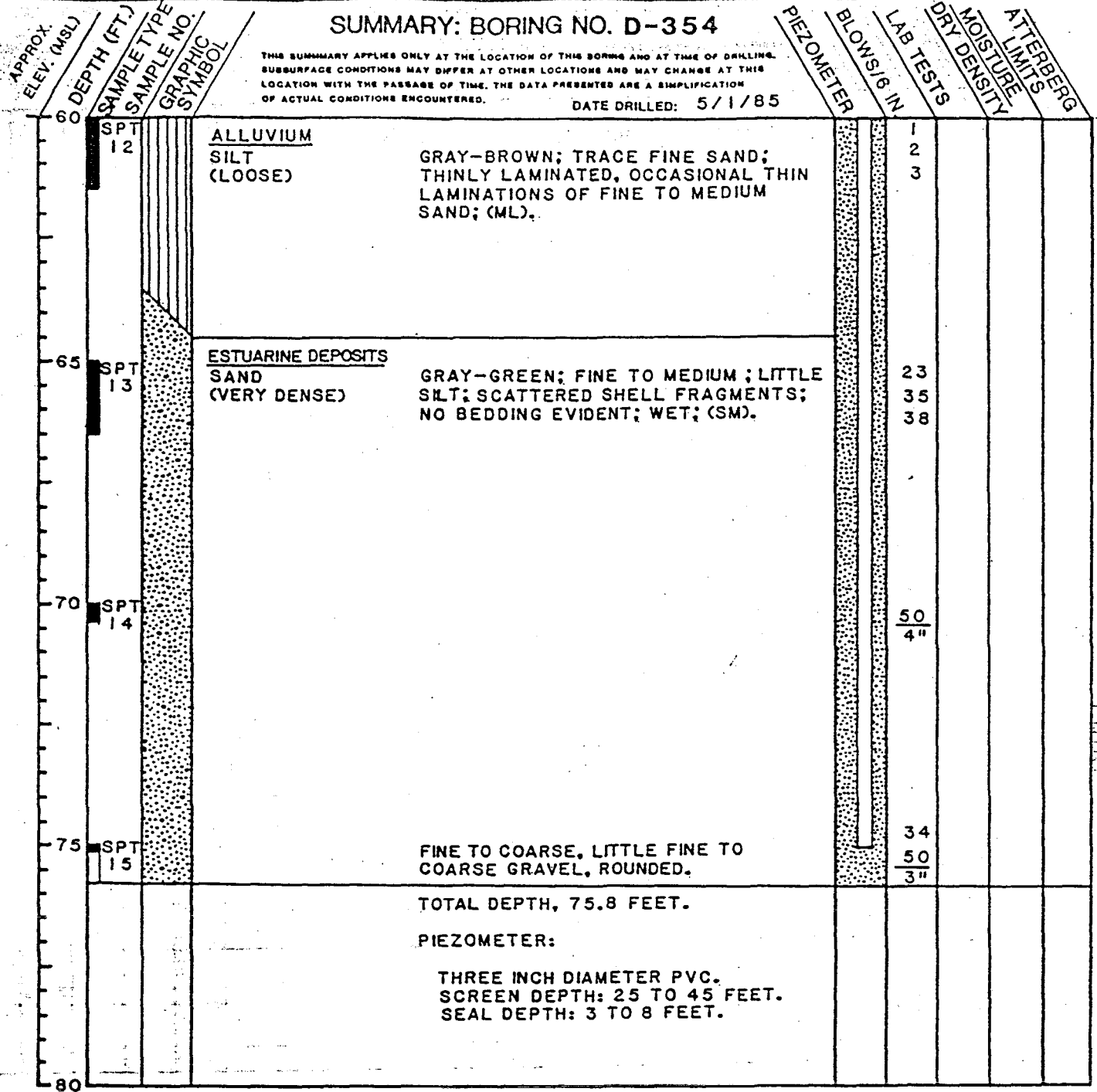
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
275-05G

SUMMARY: BORING NO. D-354

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 5/1/85



TOTAL DEPTH, 75.8 FEET.

PIEZOMETER:

THREE INCH DIAMETER PVC.
SCREEN DEPTH: 25 TO 45 FEET.
SEAL DEPTH: 3 TO 8 FEET.

SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BARLER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 8" O.S. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.S. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 2" O.S. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 2" O.S. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
DRY DENSITY - POUNDS PER CUBIC FOOT

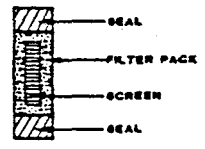
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

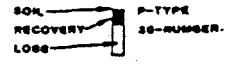
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



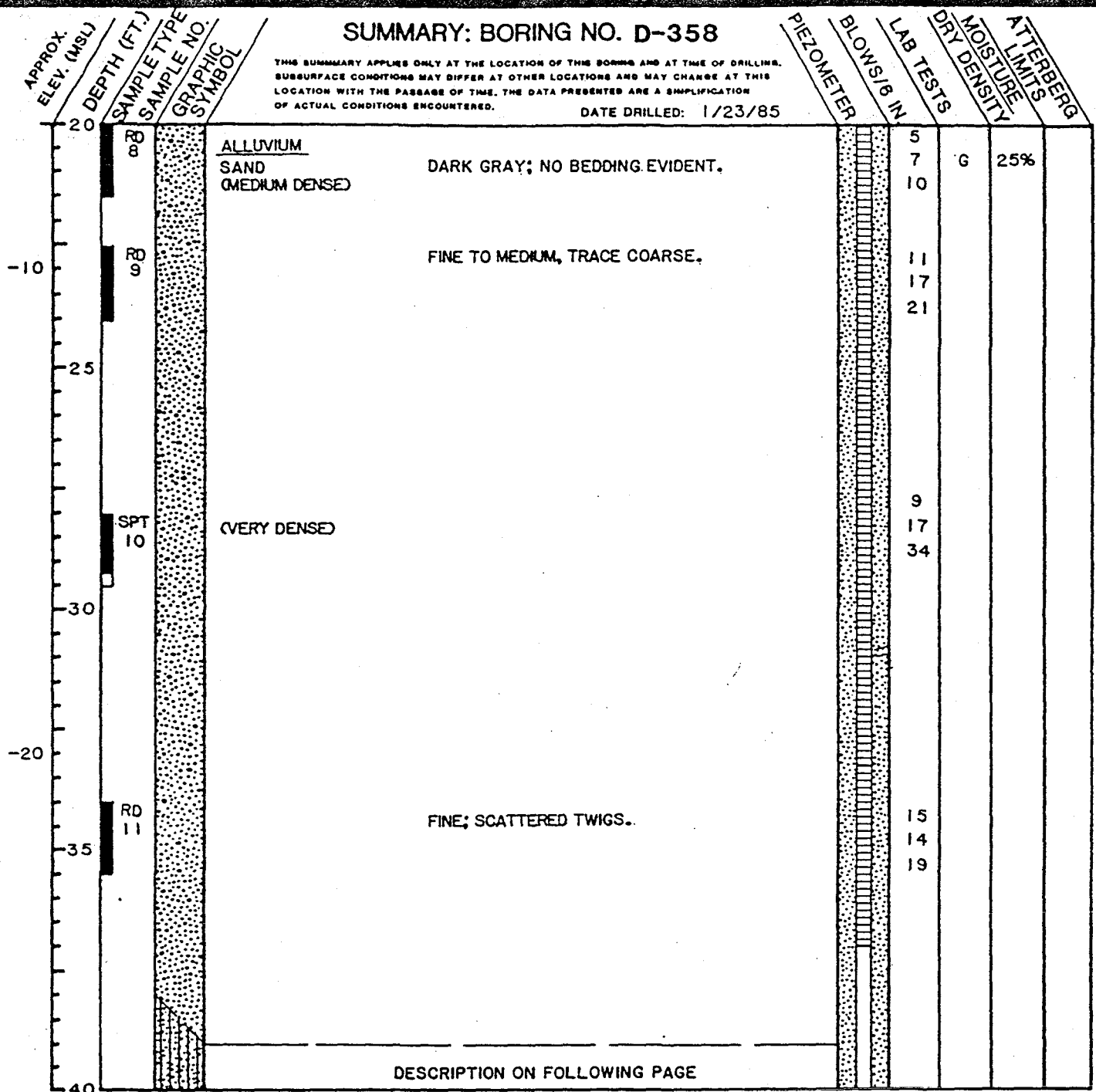
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

Project No.
275-05G

SUMMARY: BORING NO. D-358

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/23/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 8" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 8" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

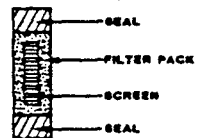
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



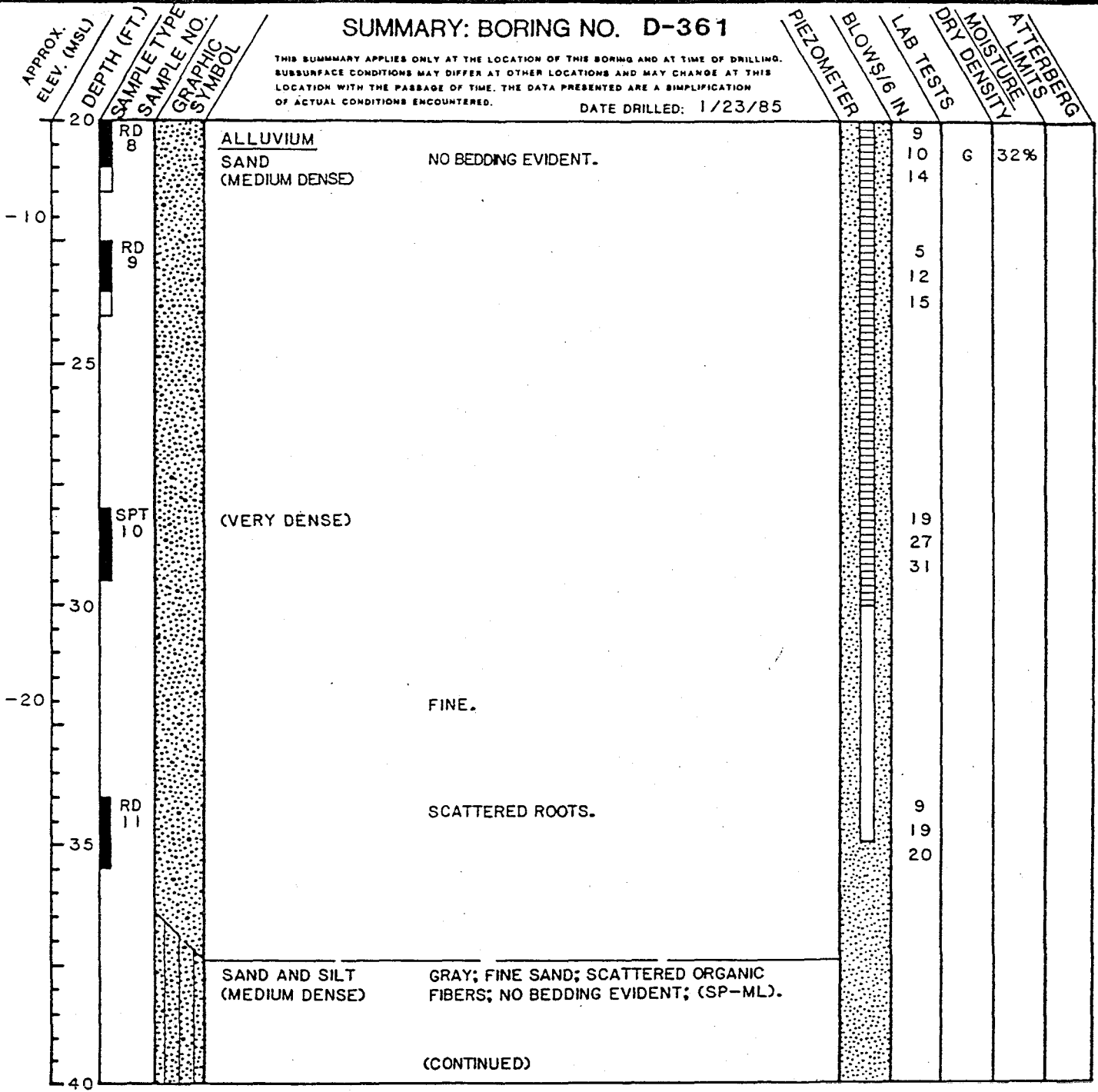
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
 275-05G

SUMMARY: BORING NO. D-361

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/23/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 3" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 36" DROP
- SB SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P FITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- BH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

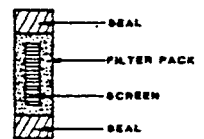
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.

275-05G

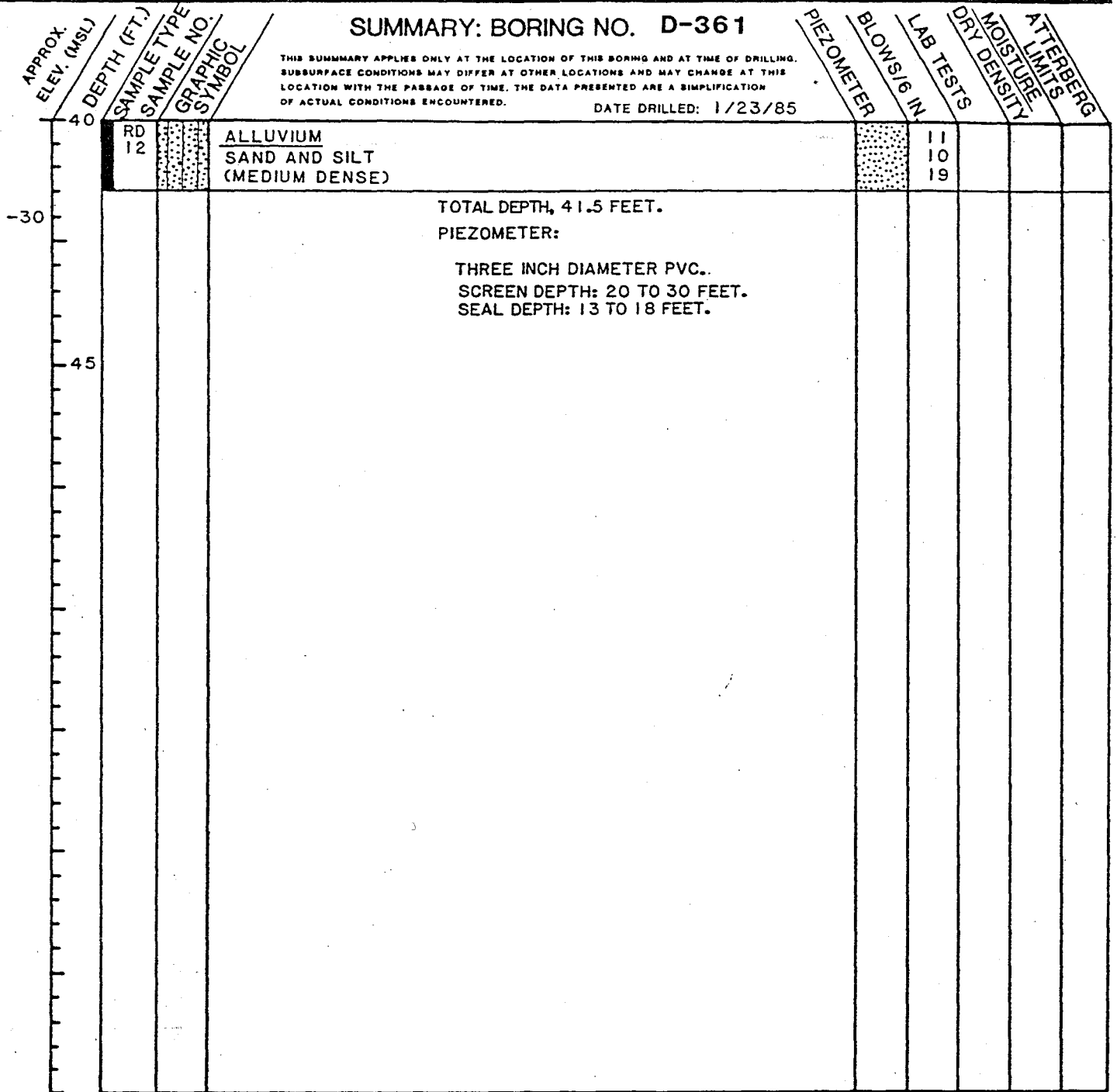
Drawing No.

A-50

SUMMARY: BORING NO. D-361

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/23/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 3" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 15" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

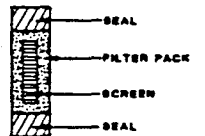
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

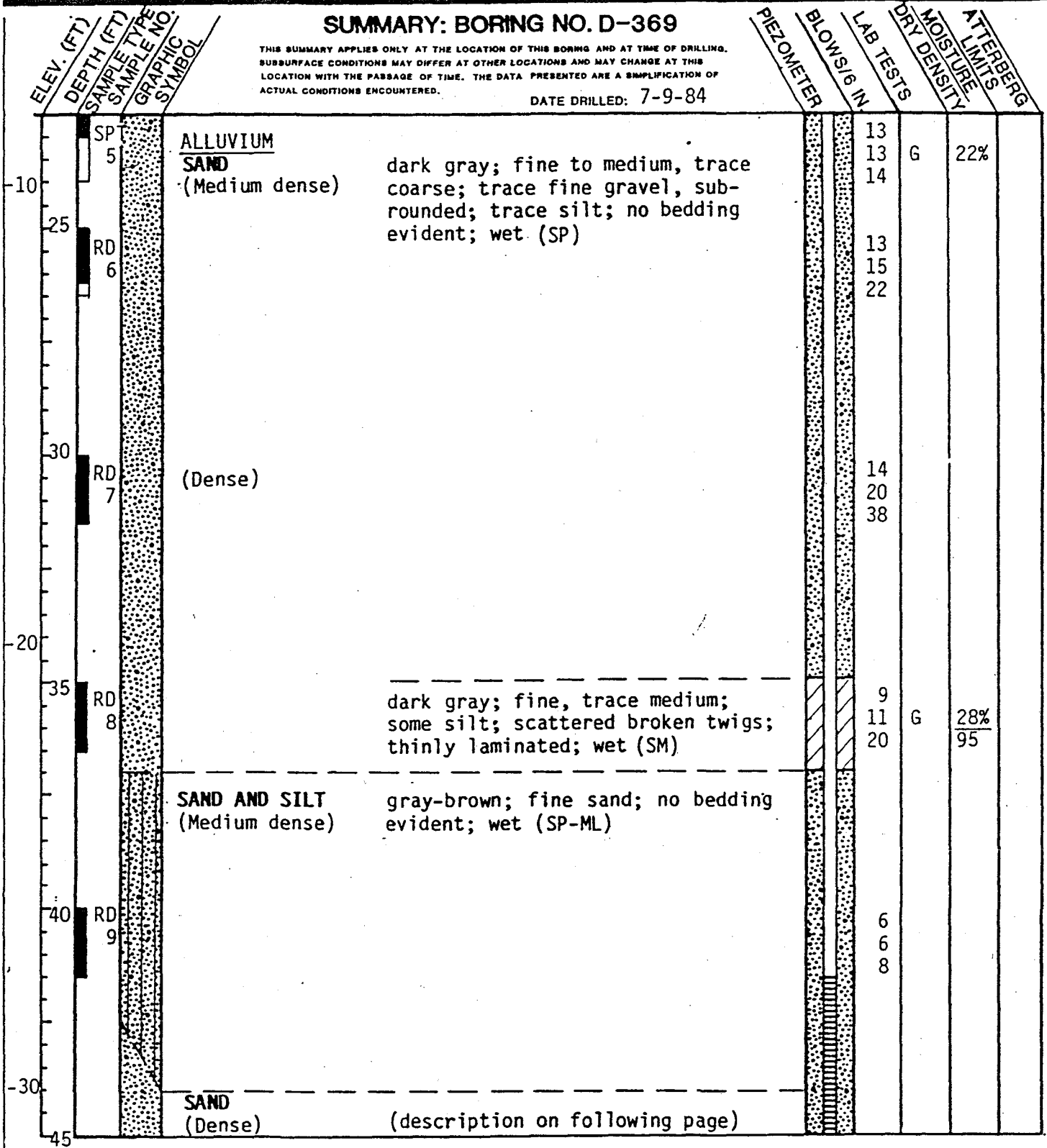
Project No.
 275-05G

Drawing No.
 A-51

SUMMARY: BORING NO. D-369

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 7-9-84



continued

RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
84-5164



Converse Consultants

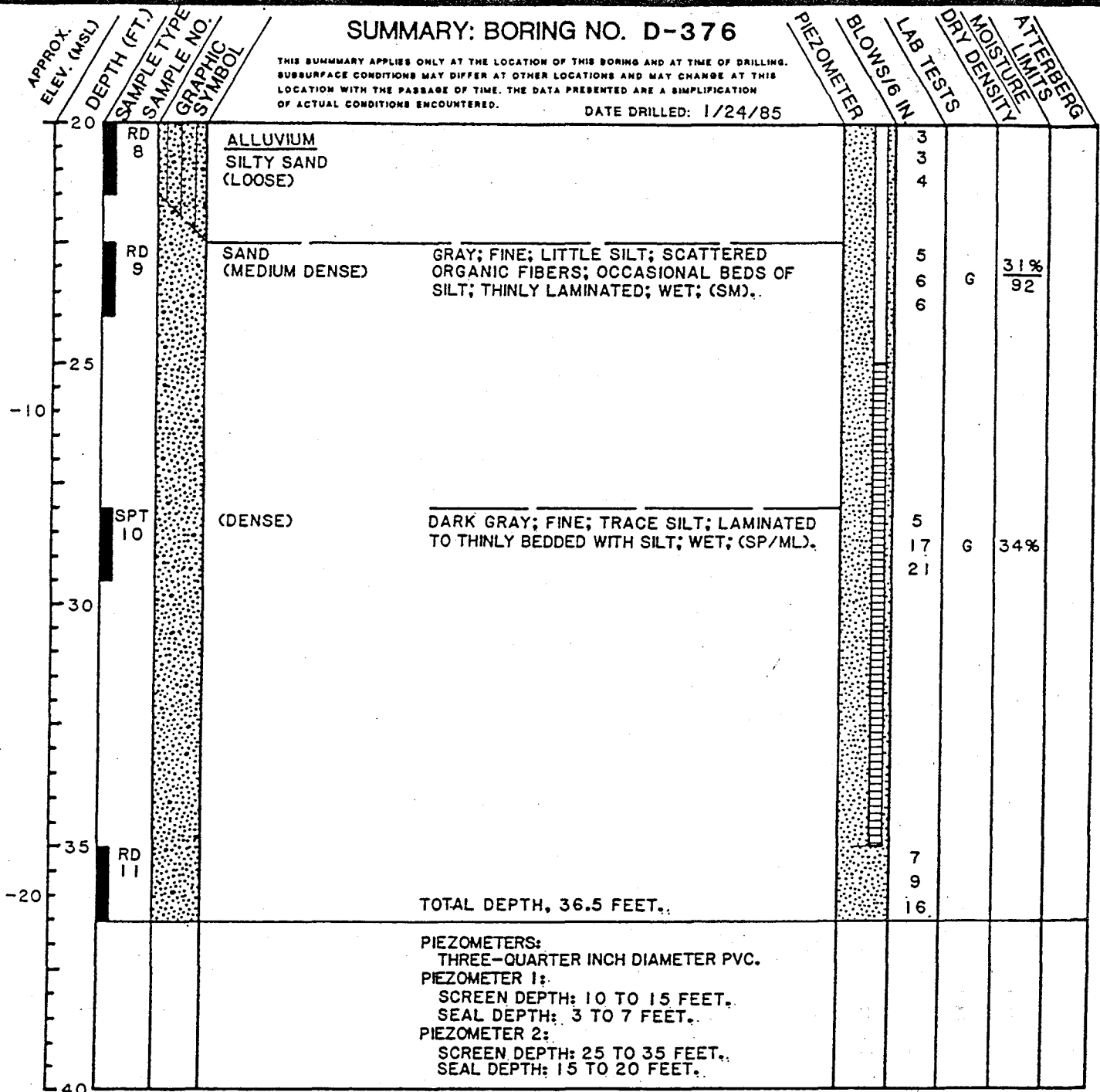
Geotechnical Engineering
and Applied Sciences

Drawing No.
A-53

SUMMARY: BORING NO. D-376

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/24/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 3" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SB SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 15" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
DRY DENSITY - POUNDS PER CUBIC FOOT

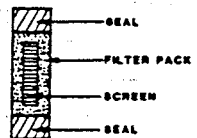
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V VIBRI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

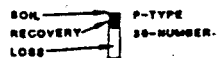
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

Project No.

275-05G

Drawing No.

A-56



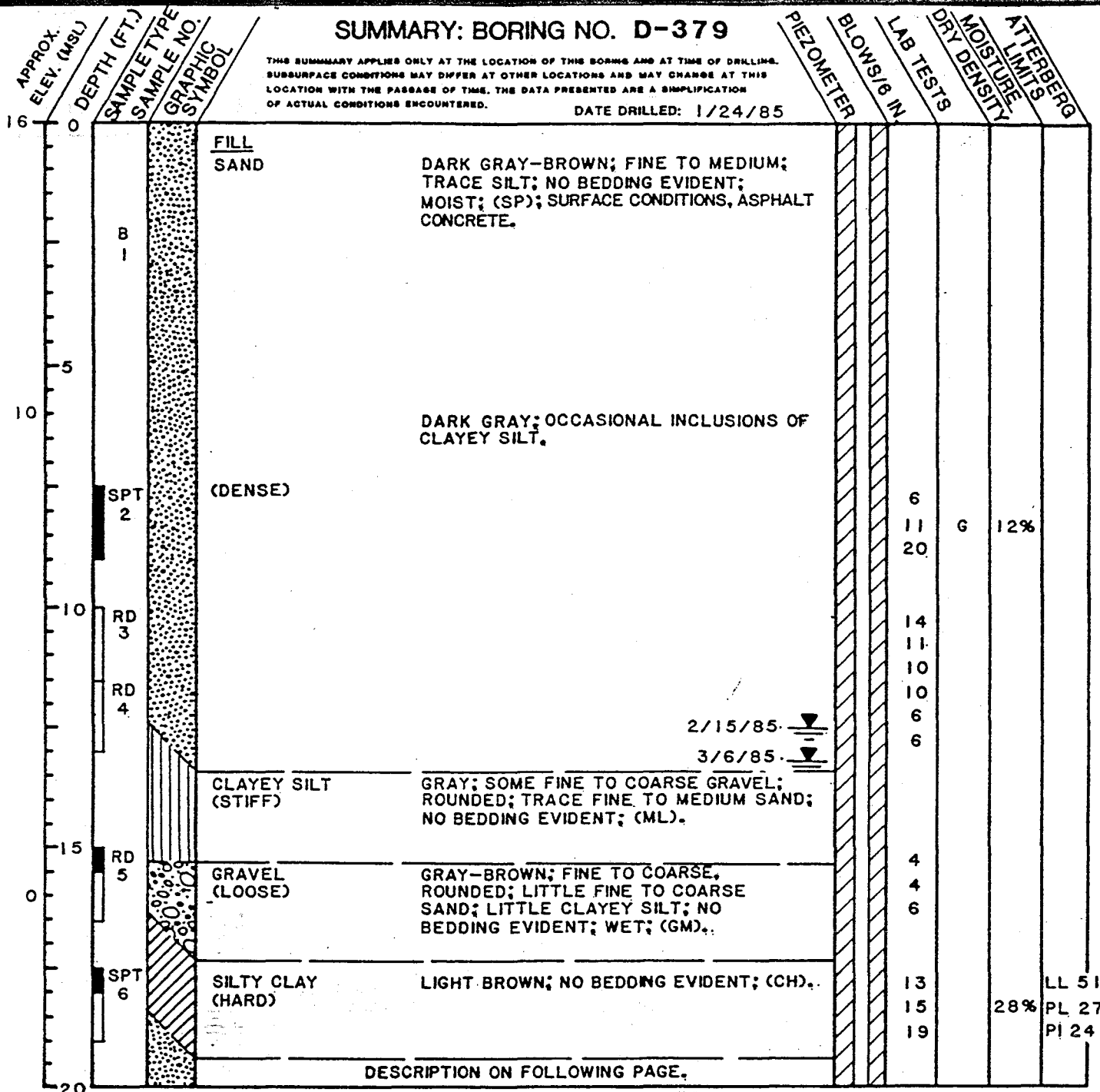
GEO/RESOURCE CONSULTANTS, INC.

Geologists/Geophysicists/Geotechnical Engineers

SUMMARY: BORING NO. D-379

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/24/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BPT
- M BARREL SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 36" DROP
- SB SPT, SECTPT DRIVER WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

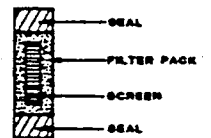
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTEBERG LIMITS
- V MAX VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNGRAINED TRIAXIAL
- CU CONSOLIDATED-UNGRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTEBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



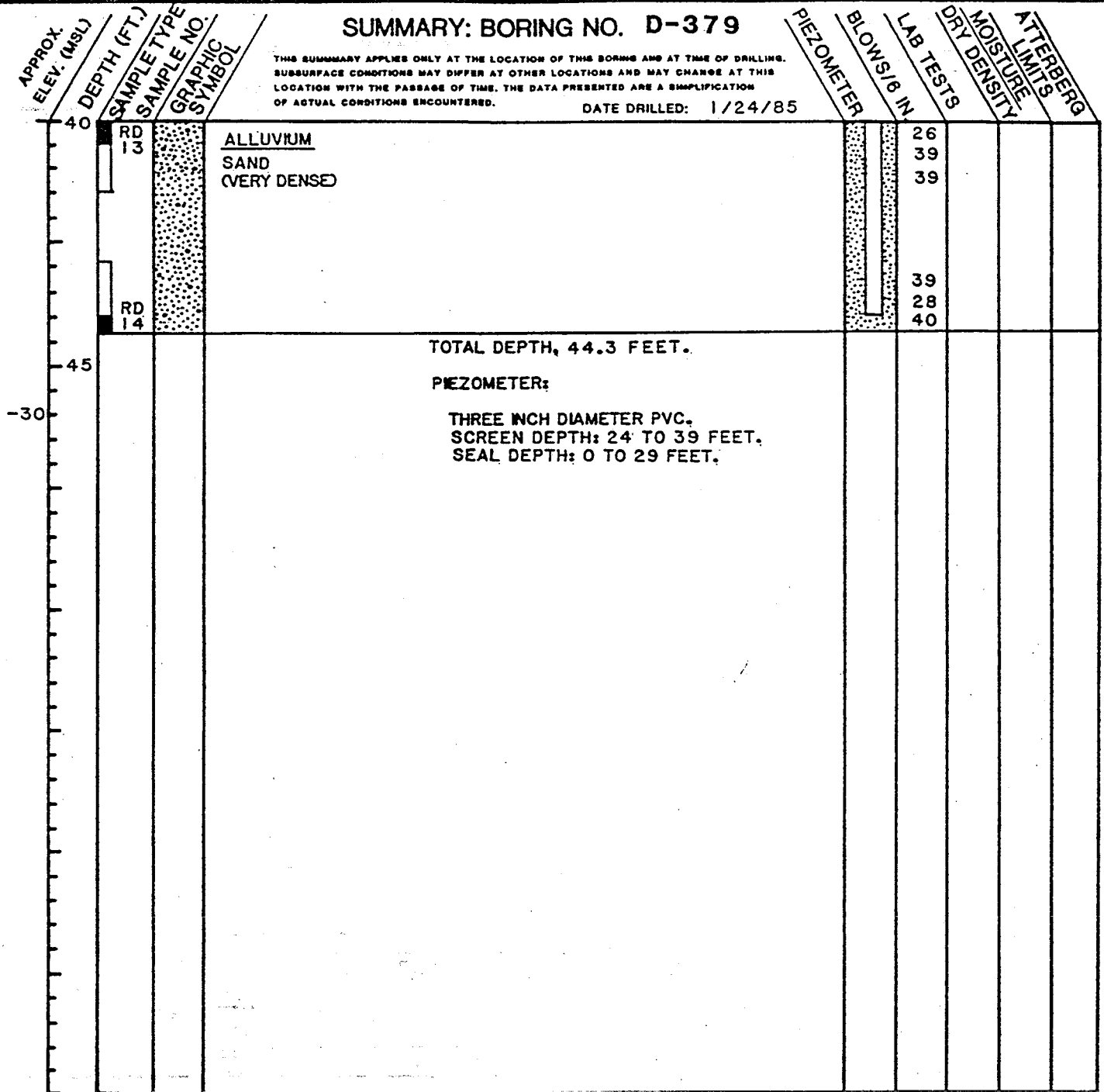
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
 275-05G

SUMMARY: BORING NO. D-379

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/24/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BARREL SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 36" DROP
- SB SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- BH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
DRY DENSITY - POUNDS PER CUBIC FOOT

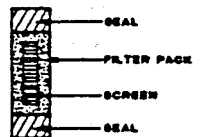
LABORATORY TESTS

- G GRAM SIZE DISTRIBUTION
- A ATTERBERG LIMITS
- V MAX VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



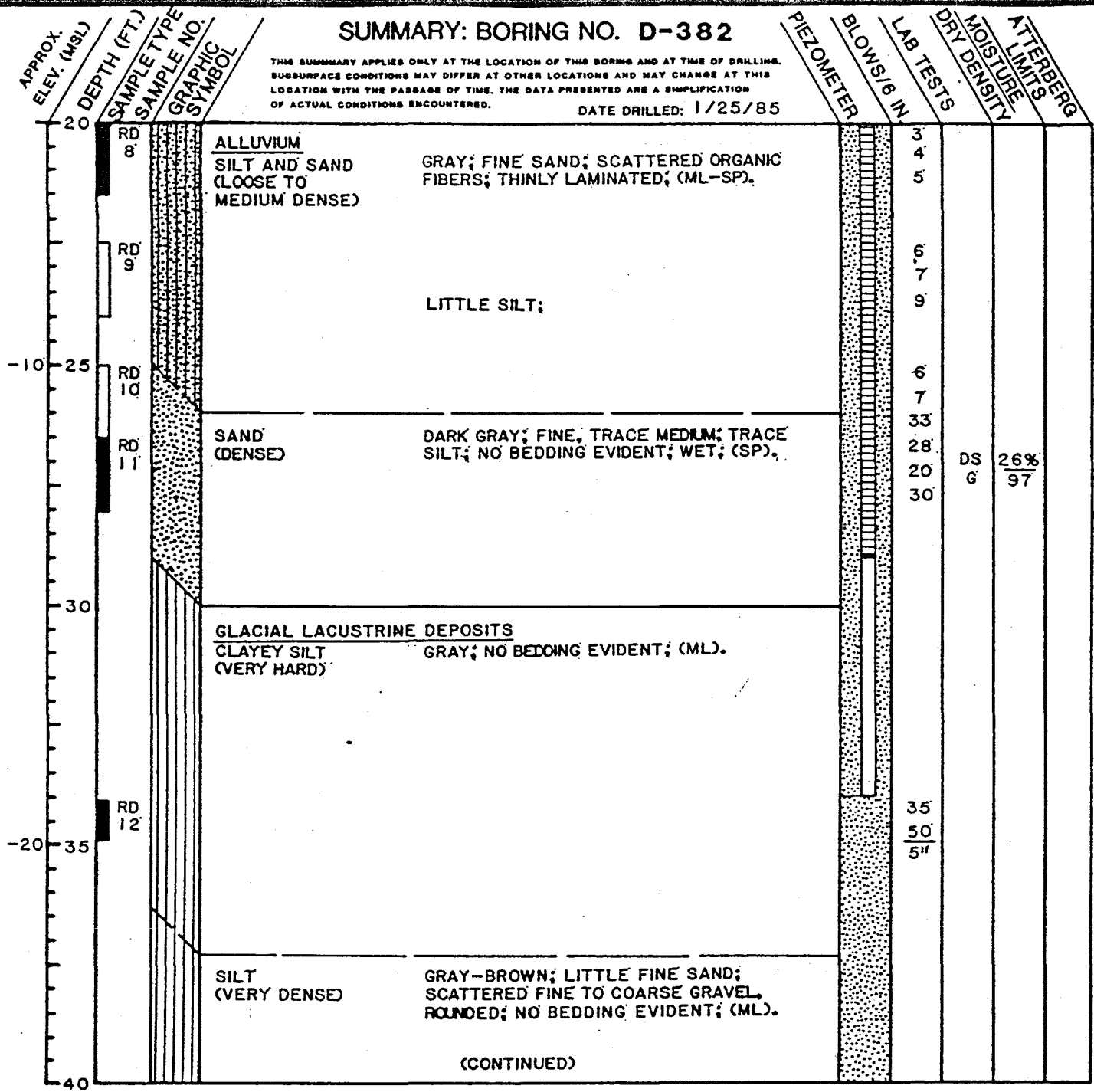
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
King County, Washington
for METRO

Project No.
275-05G

SUMMARY: BORING NO. D-382

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/25/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAKER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 2" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 10" DROP
- P PITONER SAMPLER - 2" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 2" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

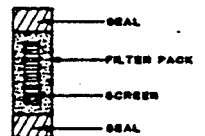
LABORATORY TESTS

- G GRAIN SIZE DISTRIBUTION
- A ATTEBERG LIMITS
- V MIN VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAMED TRIAXIAL
- CU CONSOLIDATED-UNDRAMED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

ATTEBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



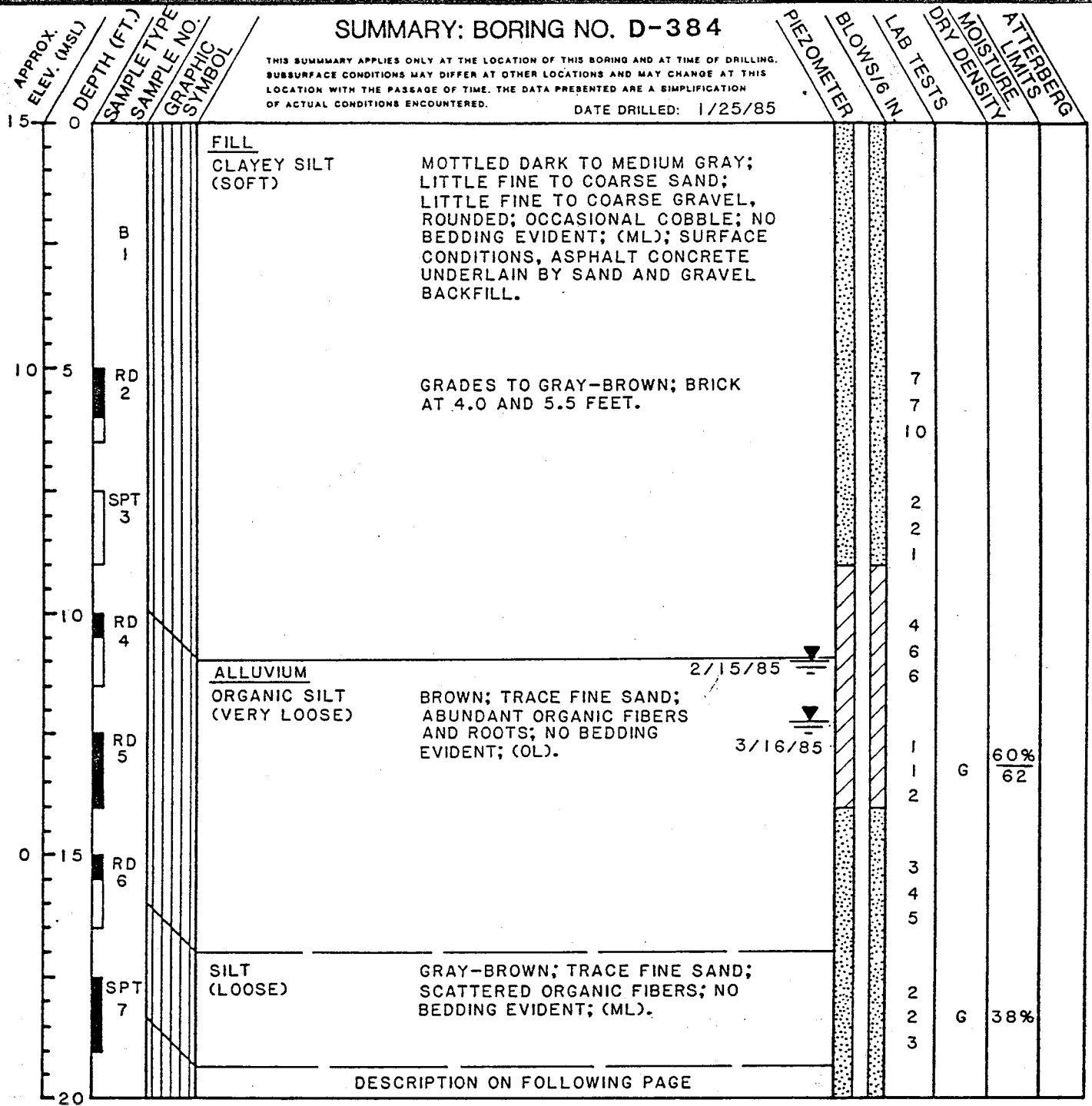
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.
 275-05G

SUMMARY: BORING NO. D-384

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/25/85



SAMPLE TYPES

- B GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT
- M BAILER SAMPLE - MIXED AND HAND COLLECTED
- C CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN
- RD 3" O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER
- SPT 2" O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP
- SS SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

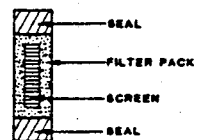
LABORATORY TESTS

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- A ATTERBERG LIMITS
- V MINI VANE SHEAR
- C CONSOLIDATION
- UU UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CU CONSOLIDATED-UNDRAINED TRIAXIAL
- PP POCKET PENETROMETER
- T PETROGRAPHIC THIN SECTION

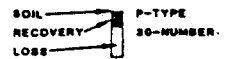
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
 King County, Washington
 for METRO

Project No.

275-05G

Drawing No.

A-63

SUMMARY: BORING NO. D-384

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

DATE DRILLED: 1/25/85

APPROX. ELEV. (MSL)

DEPTH (FT.)

SAMPLE TYPE

SAMPLE NO.

GRAPHIC SYMBOL

PIEZOMETER

BLOWS/6 IN.

LAB TESTS

DRY DENSITY

MOISTURE

ATTERBERG LIMITS

0 10 20 30 40 45 50 55 60 65 70 75 80 85 90 95 100	RD 131	ALLUVIUM SAND AND GRAVEL	60 2"				
TOTAL DEPTH, 40.2 FEET. PIEZOMETER: THREE INCH DIAMETER PVC. SCREEN DEPTH: 20 TO 30 FEET. SEAL DEPTH: 9 TO 14 FEET.							

SAMPLE TYPES

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- SS SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- P PITCHER SAMPLER - 3" O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- SH 3" O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT
 DRY DENSITY - POUNDS PER CUBIC FOOT

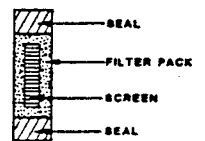
LABORATORY TESTS

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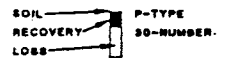
ATTERBERG LIMITS

- LL LIQUID LIMIT
- PL PLASTIC LIMIT
- PI PLASTICITY INDEX

PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT
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A-65