## **South Park Landfill**

# Remedial Investigation/ Feasibility Study



## **Prepared for**

City of Seattle South Park Property Development, LLC

February 2021

**REVISED FINAL** 









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# Appendix A Detailed Historical Analysis

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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 2<sup>nd</sup> 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 1<sup>st</sup> Avenue South and 2<sup>nd</sup> 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 1<sup>st</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 1<sup>st</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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 A.1
Historical Operations and Owners

Data	Commont Domonia	Ourse	A anti-vite.	Aerial				
Date	Current Parcels	Owner	Activity	Photograph <sup>1</sup>				
1936 and		Win a Country	Sinct Addition Diver Double Court Demoline and Dispersed Chating (CDDC) added to King Courty Tay Dollaris formula and (CDU 4007)					
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 19	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 19	951							
1946	SRDS	King County	Active dumping of rubbish expanded onto SRDS parcel. Open burning of refuse was occurring	Х				
1948	SRDS, KIP, SPPD	King County	Open burning of rubbish was documented (AESI 1998).	Х				
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.	Х				
1951 to 19	956							
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).	Х				
1955	KIP	John Farrell	John Farrell purchased the rest of the parcel containing the northwest disposal area (and potentially 7901 2 <sup>nd</sup> 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.	Х				
1956 to 19	960							
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.	Х				
1960 to 19	969							
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.	Х				
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.	Х				
1967	KIP	City of Seattle	Initial development of KIP (two buildings).	Х				
1967	SPPD	King County	East-West Channel constructed.	Х				
1967	KIP, SPPD	City of Seattle and King County	Continued filling and grading activities on KIP and SPPD parcels.	Х				
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.	Х				

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Table A.1
Historical Operations and Owners

Date	Current Parcels	Owner	Activity	Aerial Photograph <sup>1</sup>					
1969 to 19	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.	Х					
1974	SPPD	King County	Grading activities continue on SPPD parcel.	Х					
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.	Х					
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.	Х					
1980 to 19	997								
1982	SPPD	King County	Continued storage on SPPD parcel.	Х					
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.	Х					
1986	KIP	Liberty Service Corporation	Northwest corner of Tax Lot 7 (KIP) purchased by Liberty Service Corporation from John Farrell (King County 2016). <sup>2</sup>						
1990	SPPD	King County	Continued leased storage on SPPD parcel.	Х					
1992	SPPD	King County	Continued leased storage on SPPD parcel.	Х					
1995	SPPD	King County	Continued leased storage on SPPD parcel.	Х					
1996	SPPD	King County	Continued leased storage on SPPD parcel.	Х					
1997	SPPD	King County	Continued leased storage on SPPD parcel.	Х					
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). <sup>2</sup>	х					
1997 to Pi	resent								
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.	Х					
2005	KIP	John Hill	Northeast corner of KIP parcel purchased by John Hill from Janice Farrell (King County 2016). <sup>2</sup>						
2005	KIP	7910 2 <sup>nd</sup> Avenue South, LLC	Northeast corner of KIP parcel purchased by 7901 2 <sup>nd</sup> Ave S, LLC from John Hill (King County 2016). <sup>2</sup>						
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). <sup>2</sup>						

#### 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	
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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  $\frac{1}{2}$ 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.

<u>Property Management Area</u>: 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**

<u>Legal Description</u>: 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.

<u>Physical Description and Related Factors</u>: 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.

<u>Context</u>. 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.

<u>Highest and Best Use</u>: 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.

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

<u>Compatibility with surrounding uses</u>: 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.

<u>Timing and Term of Proposed Use</u>: 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. 42,120 sq. ft. Zoning: IG2U/65'

Ft.):

Est. Value: \$380.000 less Assessed Value: No tax account number

remediation

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/ No / Yes 10
Disposal?

3.) Have citizens, community groups and/or other interested No / Yes 10 parties contacted the City regarding any of the proposed options?

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 \$250,000-\$1,000,000?	Market Value between	No / Yes	10
8.) Is the estimated Fair	Market Value over \$1,000,000?	No/ Yes	45
"Yes" Responses:	Total Number of Points Awarded for		10

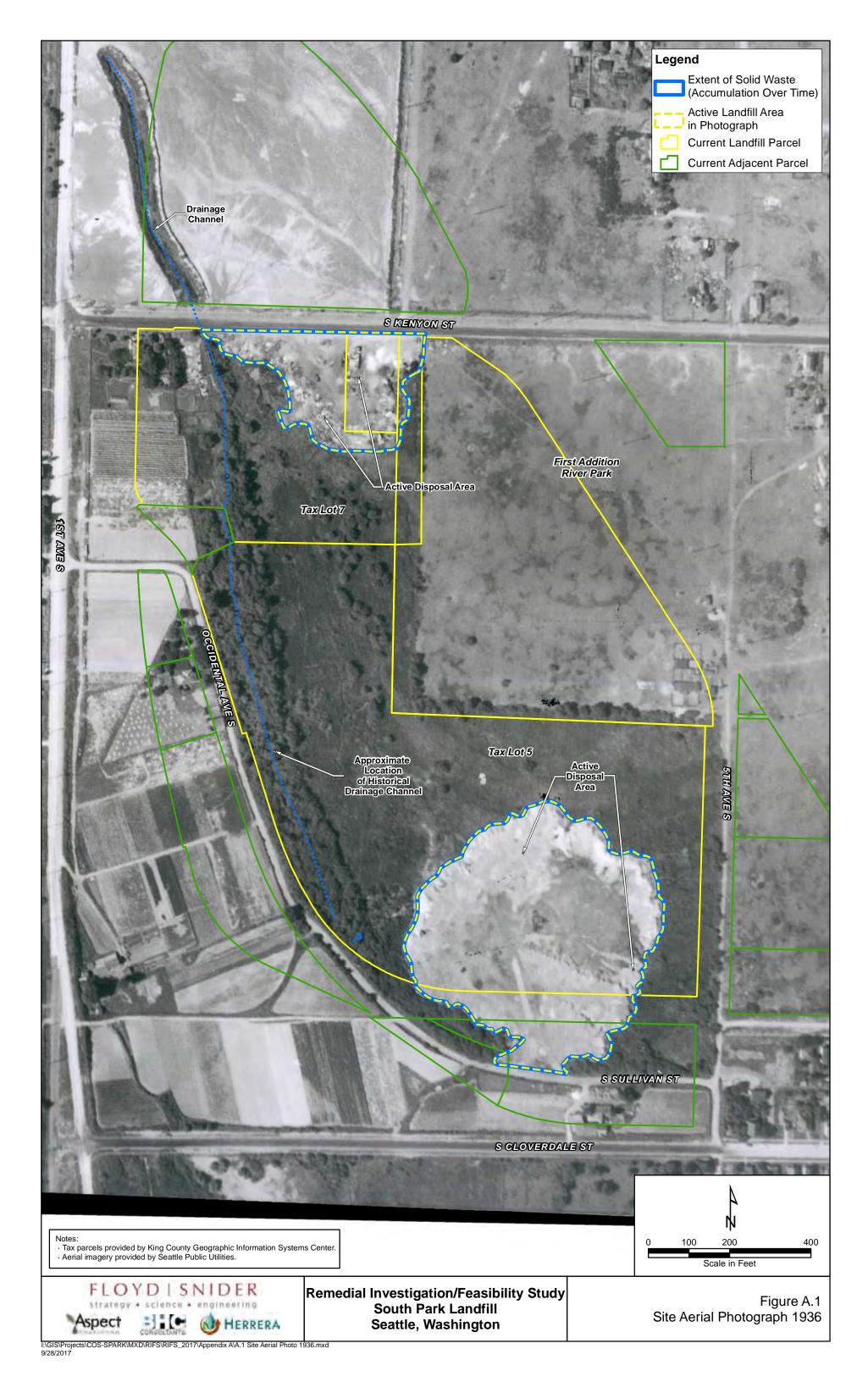
Property Classification for purposes of Disposal review: Simple / Complex (circle one) (a score of 45+ points results in "Complex" classification)

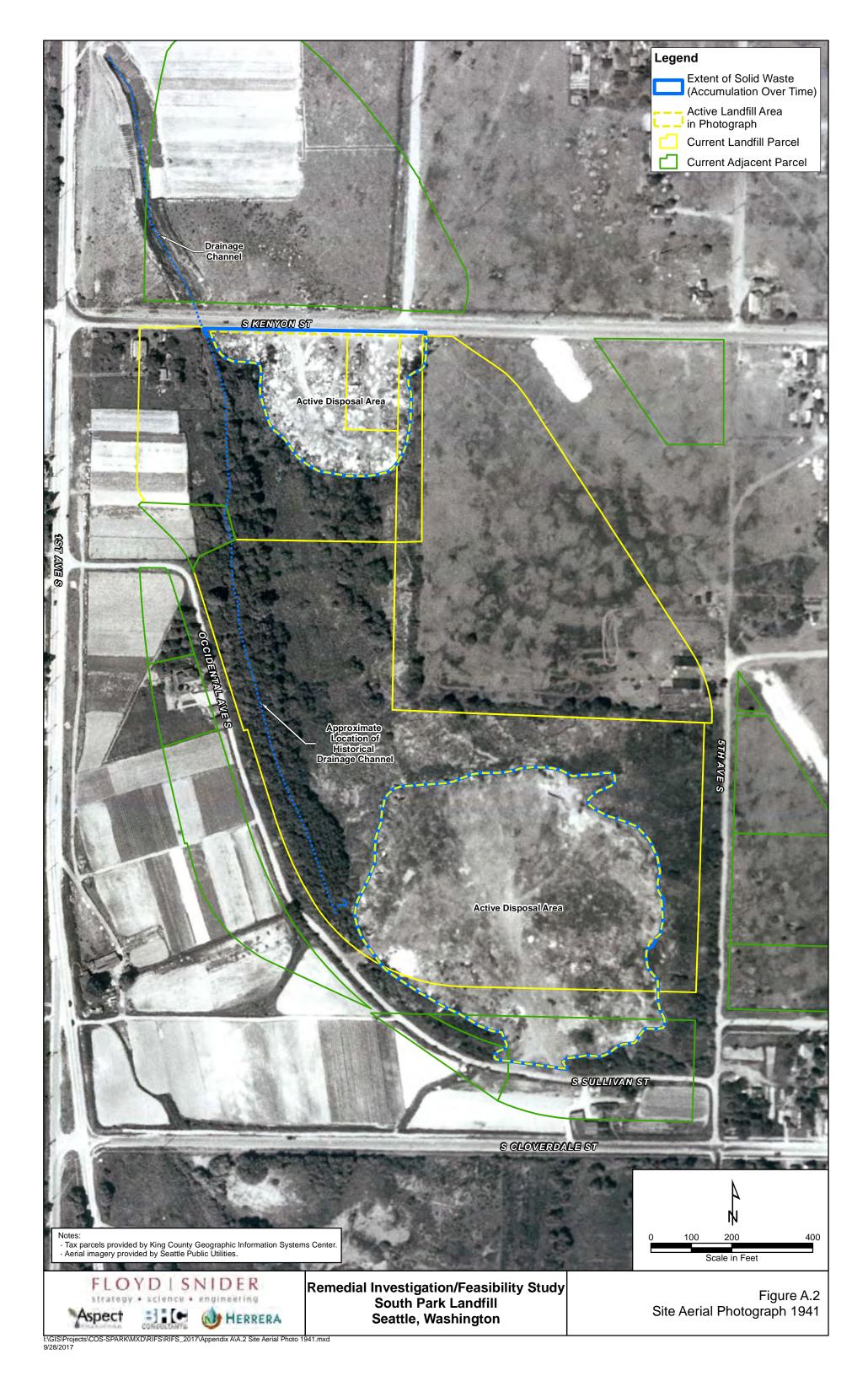
Signature: John Kennedy Department: FFD Date: 08/17/2001

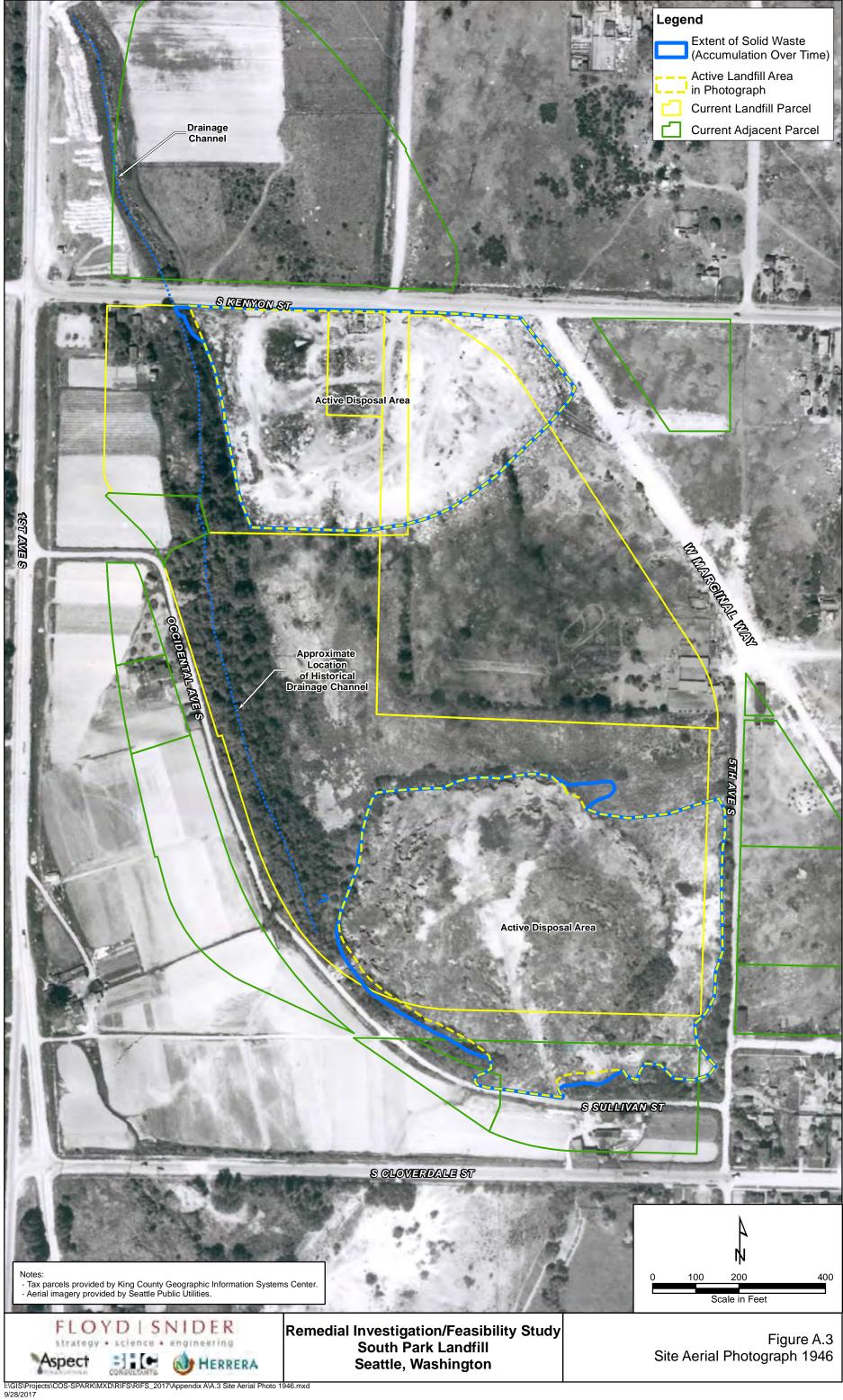
Attachment 1 - South Recycling and Disposal Station

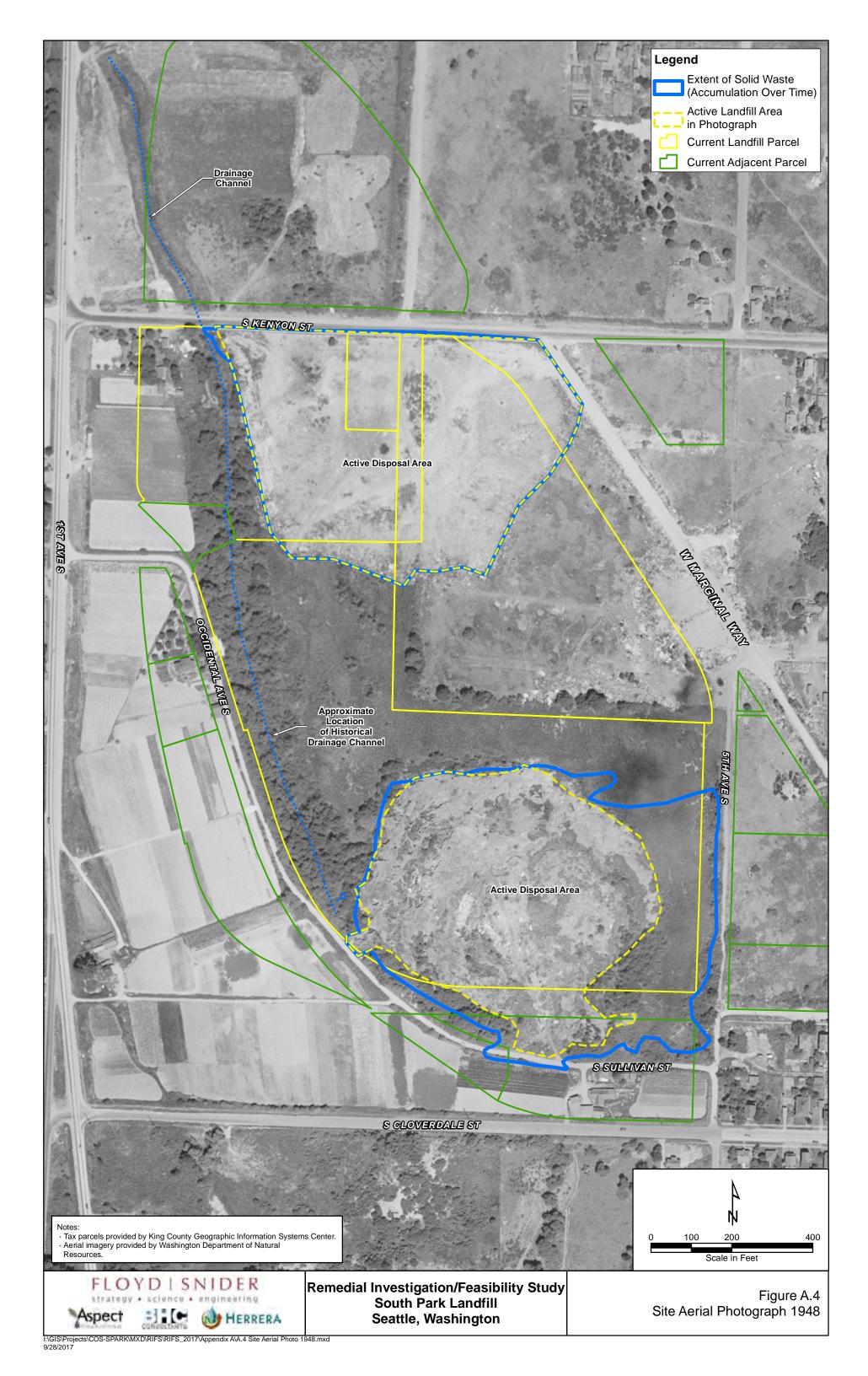


## Figures

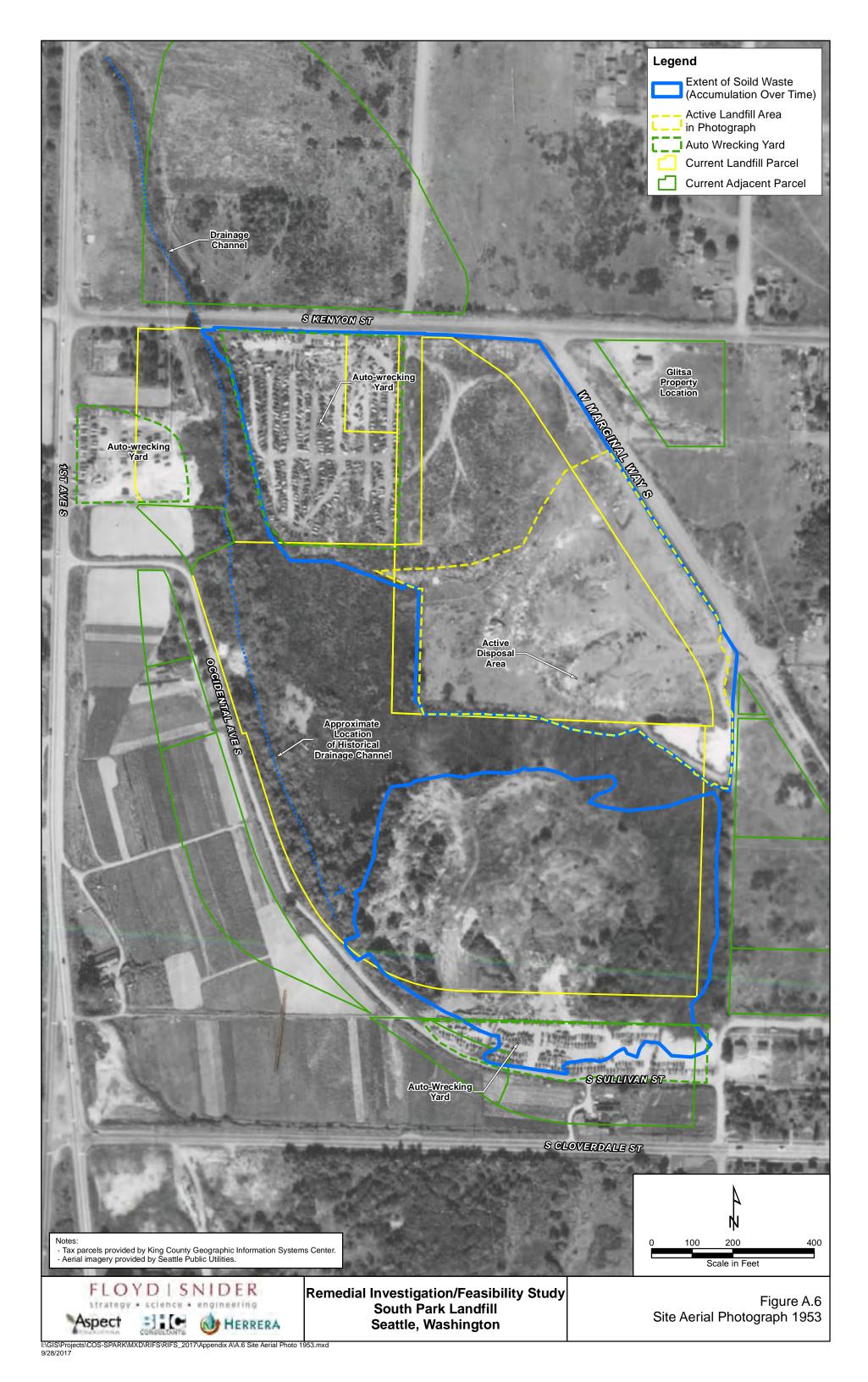


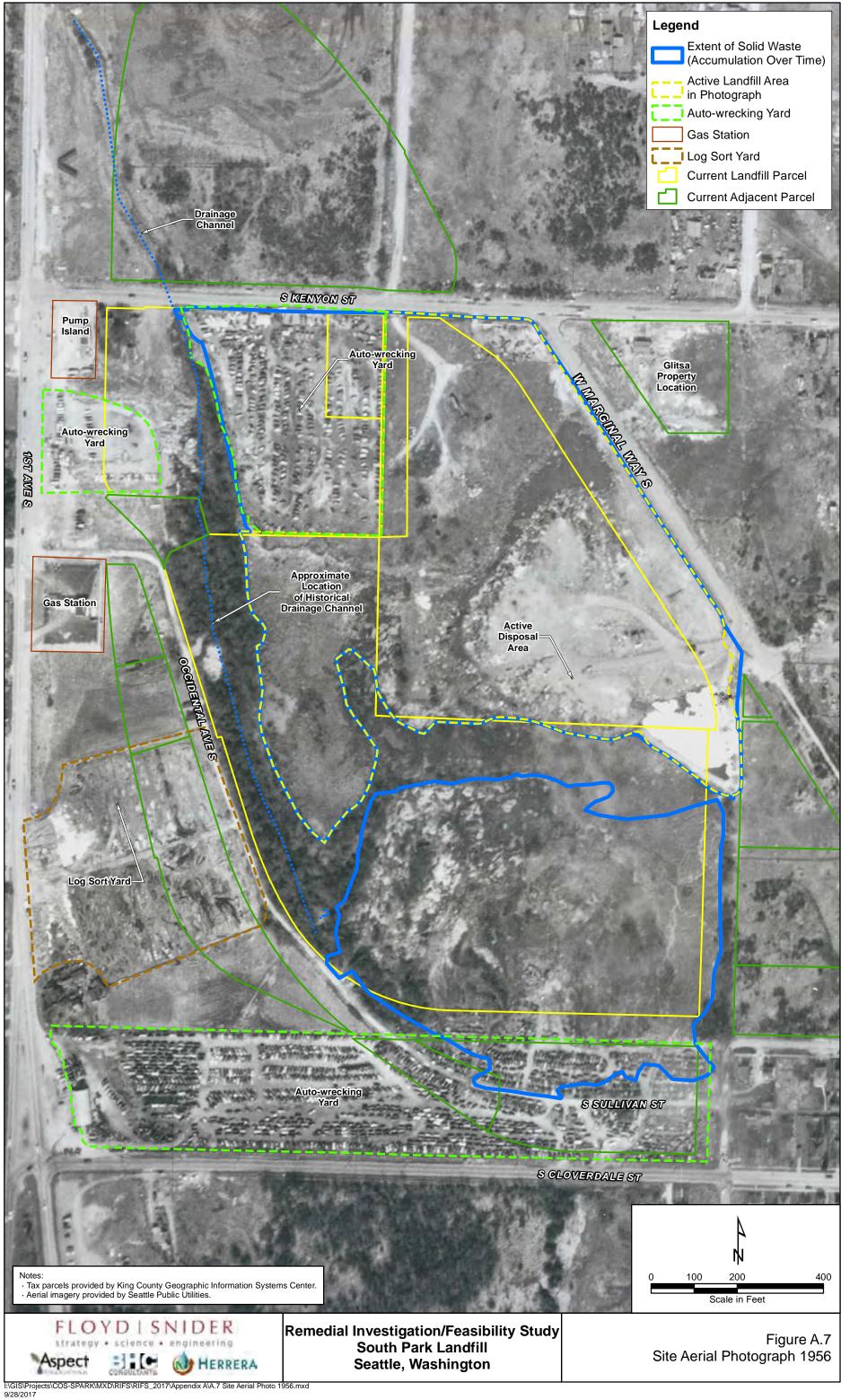






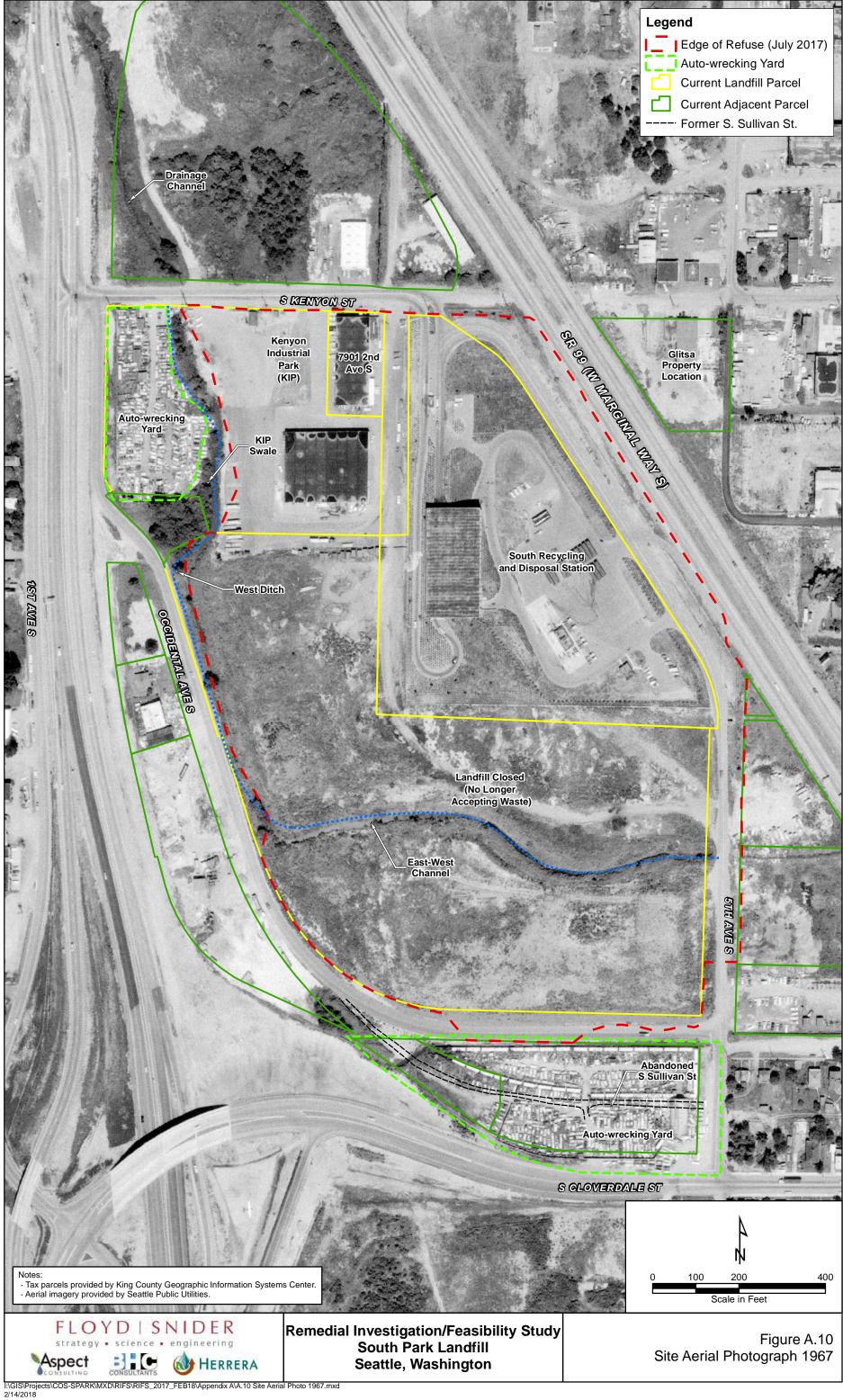
















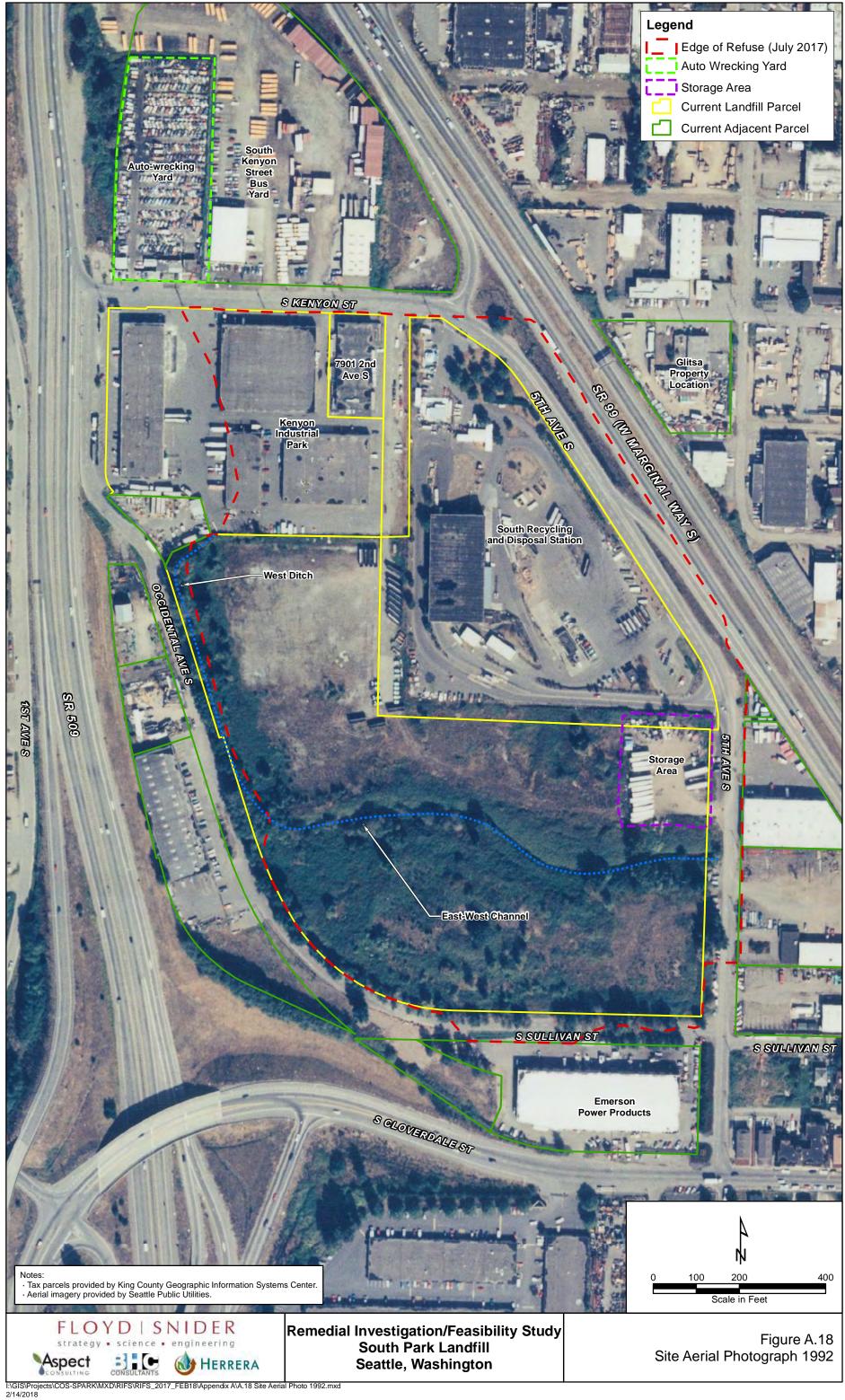


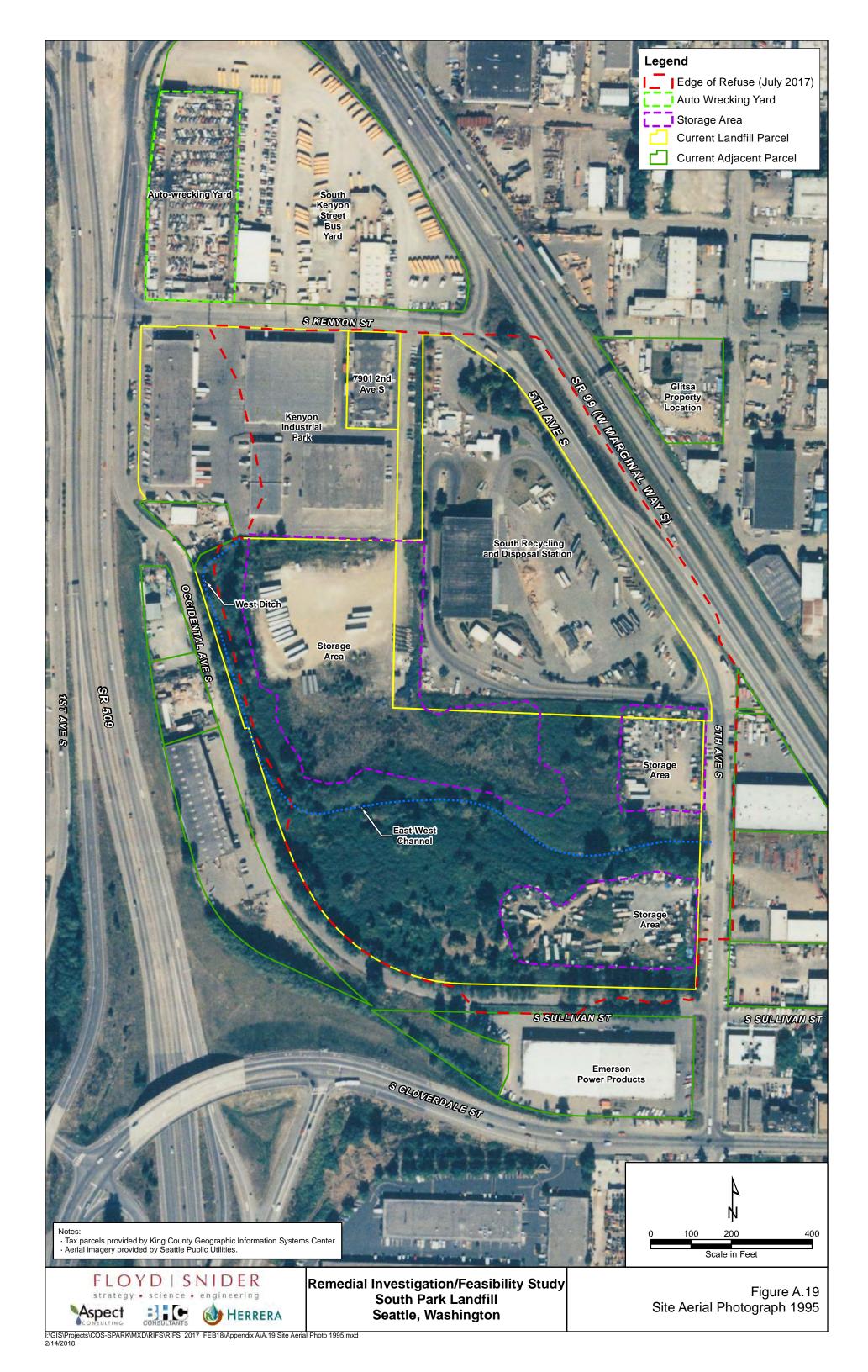














Legend







**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 <u>any</u> 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 5<sup>th</sup> 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.

\merry\data\projects\COS-SPARK\4001 - RI-FS Pre-Novemeber 2014\TOPIC Glitsa Property\Memo\Glitsa Memo 112114.docx November 21, 2014

<sup>&</sup>lt;sup>1</sup>Stoddard 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.

## **LIST OF TABLES**

Table 1 Ownership History

## **LIST OF FIGURES**

Figure 1	Glitsa and Farwest Paint Parcel–1946
Figure 2	Glitsa and Farwest Paint Parcel–1948
Figure 3	Glitsa and Farwest Paint Parcel–1951
Figure 4	Glitsa and Farwest Paint Parcel–1953
Figure 5	Glitsa and Farwest Paint Parcel–1956
Figure 6	Glista and Farwest Paint Parcel–1960
Figure 7	Glitsa and Farwest Paint Parcel-1963
Figure 8	Glitsa and Farwest Paint Parcel–1967
Figure 9	Glitsa and Farwest Paint Parcel-1974
Figure 10	Glitsa and Farwest Paint Parcel–1977
Figure 11	Glitsa and Farwest Paint Parcel–1980
Figure 12	Glitsa and Farwest Paint Parcel–1992
Figure 13	Glitsa and Farwest Paint Parcel-2004
Figure 14	Glitsa and Farwest Paint Parcel-2011

## **LIST OF ATTACHMENTS**

Attachment A Property Record

Attachment B Boring Logs

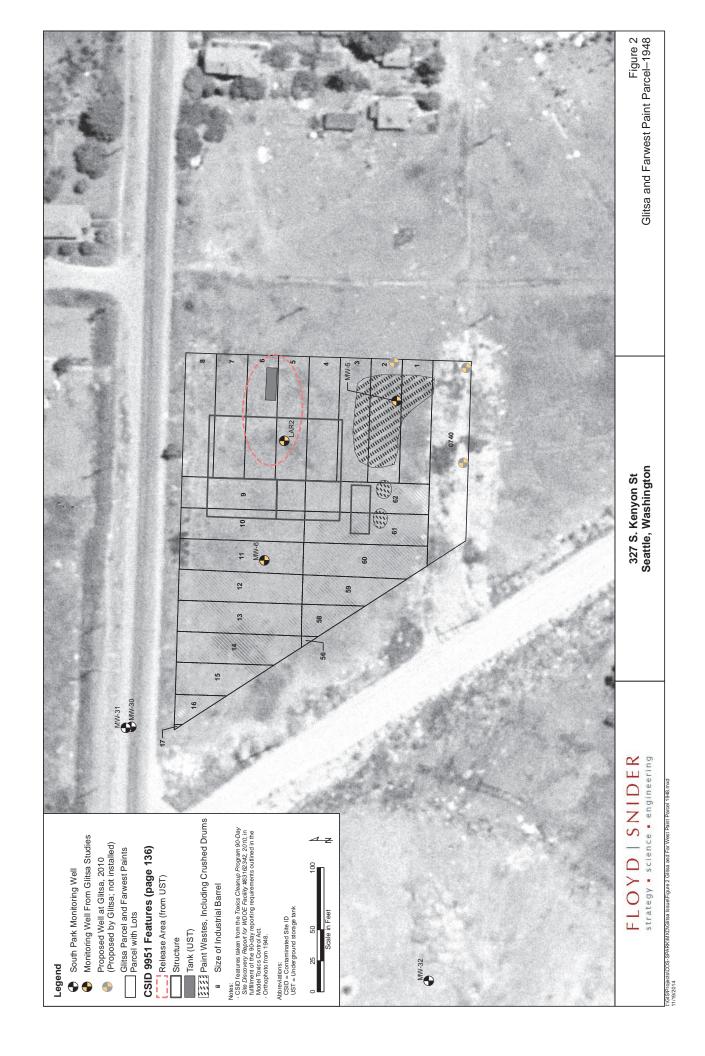
Ownership History Table 1

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

Ownership History

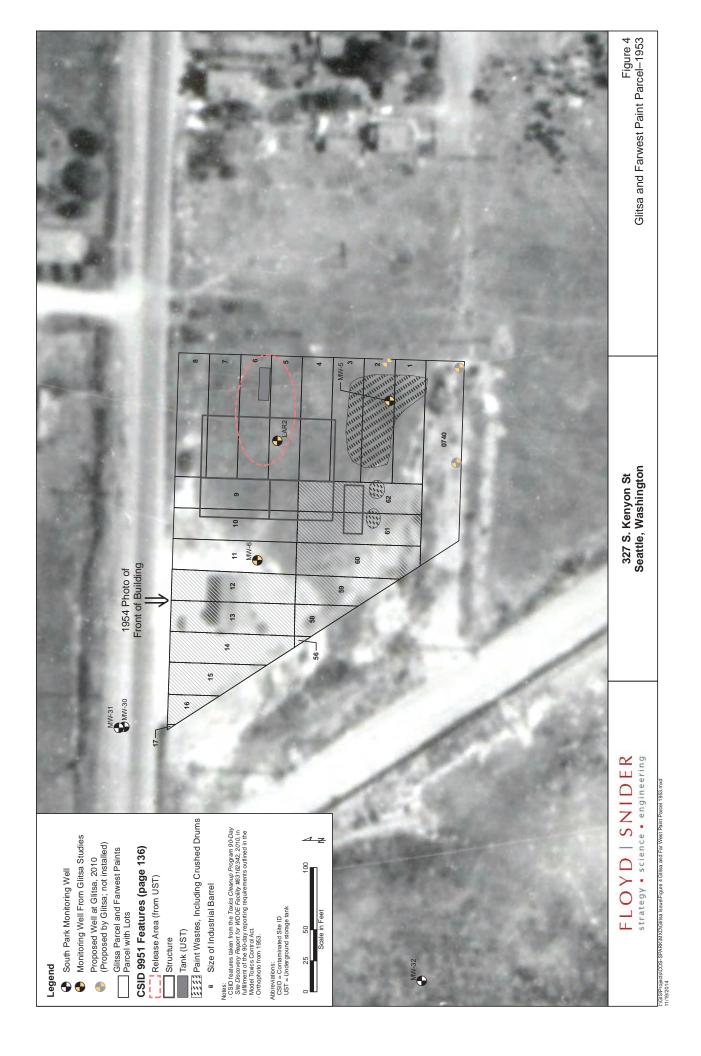
## **Figures**

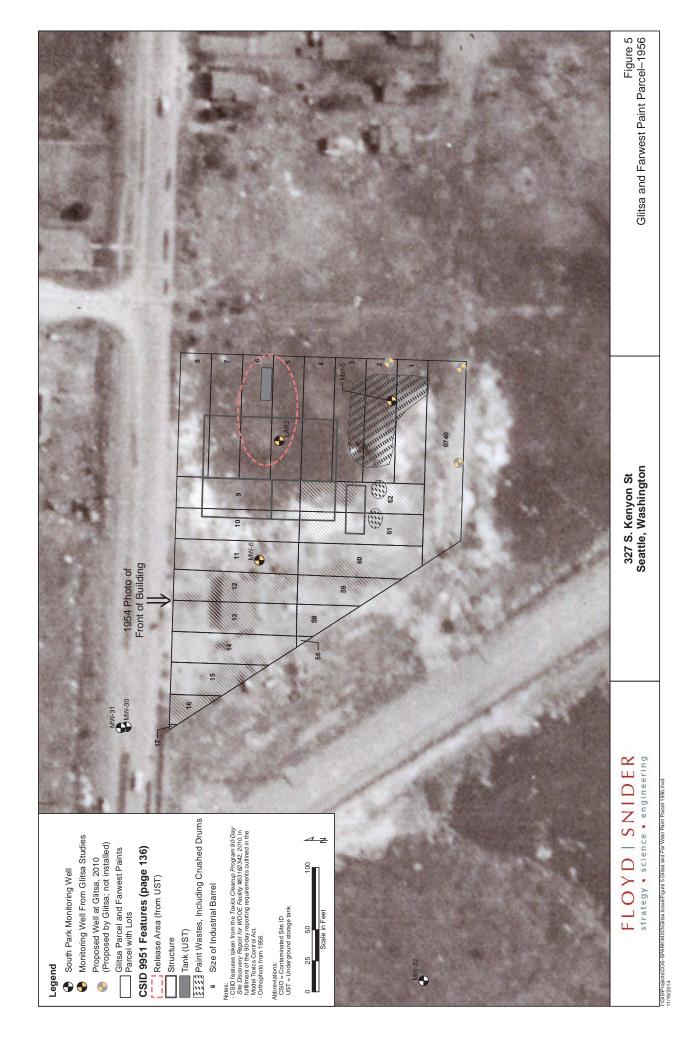






GIS/Projects/COS-SPARK/MXD/Glitsa Issue\Figure 3 Glitsa and Far West Paint Parcel 1951.mxc



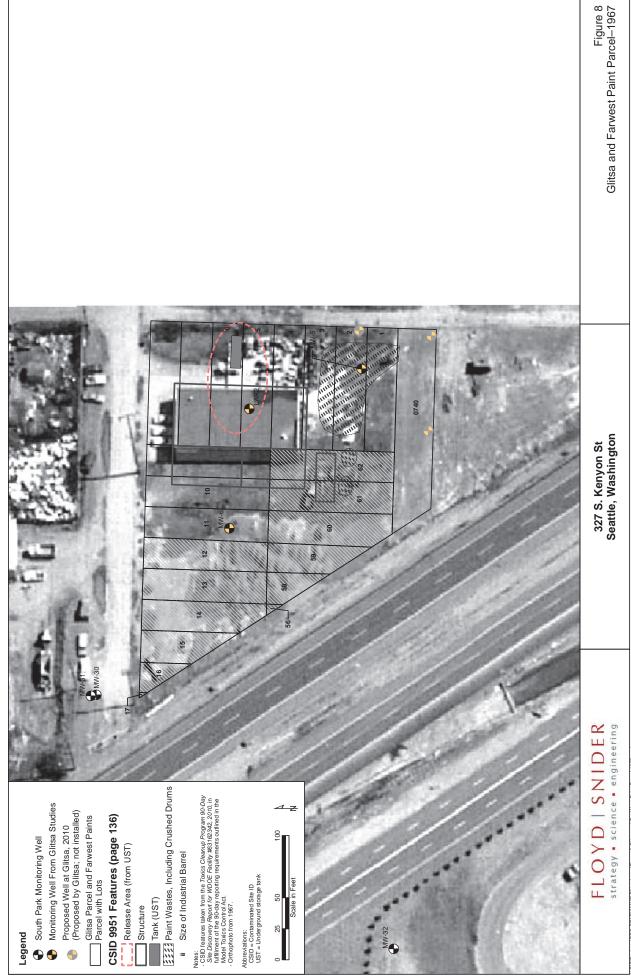




GIS/Projects/COS-SPARK/MXD/Glitsa Issue/Figure 6 Glitsa and Far West Paint Parcel 1960.mxd



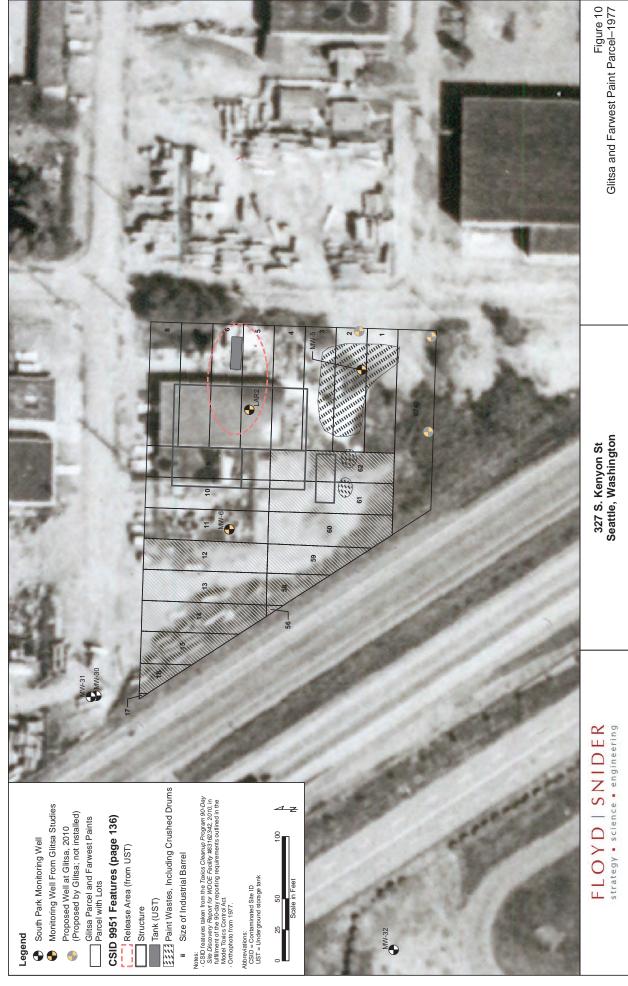
\GIS\Projects\COS-SPARK\MXD\Giitsa Issue\Figure 7 Glitsa and Far West Paint Parcel 1963.mxd



Projects\COS-SPARK\MXD\Giltsa Issue\Figure 8 Giltsa and Far West Paint Parcel 1967.mxd



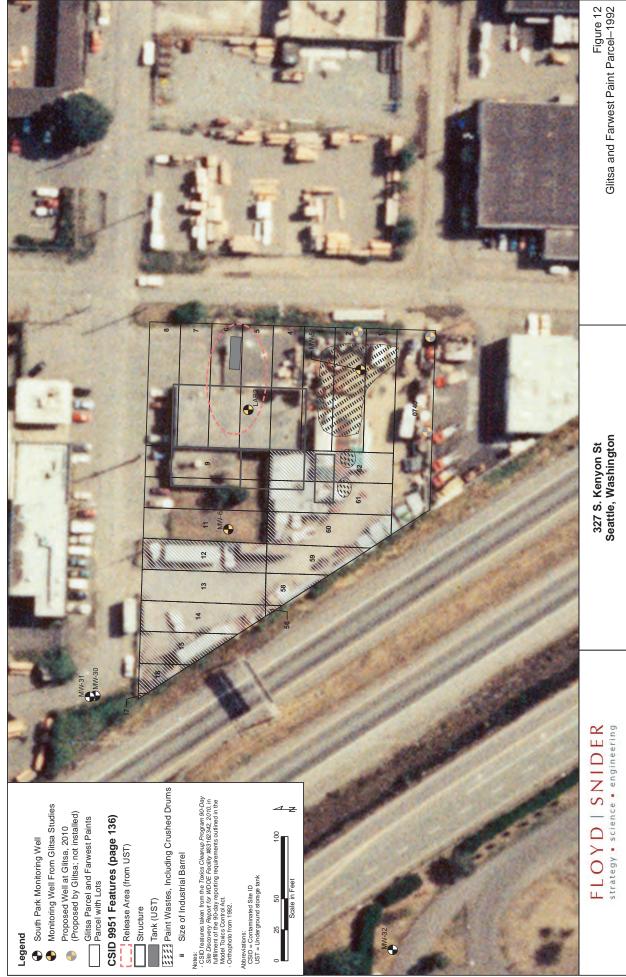
GIS/Projects/COS-SPARK/MXD/Giltsa Issue\Figure 9 Glitsa and Far West Paint Parcel 1974.r



:\GIS\Projects\COS-SPARK\MXD\Giitsa Issue\Figure 10 Giitsa and Far West Paint Parcel 1977.



SISVProjects\COS-SPARK\MXD\Giitsa Issue\Figure 11 Glitsa and Far West Paint Parcel 198



IS/Projects/COS-SPARK/MXD/Glitsa Issue\Figure 12 Glitsa and Far West Paint Parcel 1992.n



327 S. Kenyon St Seattle, Washington



SProjects\COS-SPARK\MXD\Gitsa Issue\Figure 14 Giftsa and Far West Paint Parcel 2011.

## Attachment A Property Record

ADDITION Ist add to Priver Park Lati 2 To 18 15 1. Also 3668 Server 32 Top 24 Tage 4 200 Block 1 & Topico 12 - 18 LESS W MARG WAY 420-289 at W. Margerel DATE 4-52 257- Kenyon St Per Owner. Condition of Enterior Interior C DAR. ROOF CONSTRUCTION PLOOR PERMITS L No Stores France - Lam Pir Maple Bathe FL Walls No Bare Mill Construction Cak PATTAG Sull's 1 7000 / No Rooms Dies Walf Tag Rein Cengrete BL Plan Walle Tube, Leg or Pers. Dagment Central No. Trusts Dt. Bds Fa. 72.... Butto, Ped. / No. COLINA Word Soul Terms Si.PL Flores Sinks No. Apartments ROOFING MATERIAL Sq. Pl. Walls Urinsla 1 m 2 m 1 m Tite. Tar and Univel Lin Pt. Dy. Die Shrwer (Tub) (Suit) comp Lausdry Trays Kale Walls TYPE OF CONSTRUCTION Date Bull 19.53 H.W. Tank Pl. Dreits Catalad Barreland. L France Effective Age Synak Sys No 15da Nation Like L Single Double - TOWN 39 1 BERATORO . Dep. for Coat. Dop for Ha. Cedinary Masonry 2 Shore Will Consumition Pipoles Purnace Class & Rain Con-Grawty H. A. Stru Steel and Con. Air Cont., Fan. Trile Smuk
Con. Bein Con 1-Pipe Stoke Good Med Change 2-Dips St. or Vapor POURDATION Hot Water Mad Silb Of Server Plet and Pag Cost Steher Brick MERDIO Connecta Embe & Tube Pile Fire Coble Conduit BASSMENT Your Write Total Bango Worker Rati-Danished We Outlete Sin Other Dublings. BLETATORS Garage No. Care 1967-250-A065 Total. Frencht Stan Stan Page Floors Assessed Value 50% Auto. Pleased. buy Building L. V. Min. Living Rooms Section Booms EXTERIOR WALL COUNTR. INTERIOR WALLS DAS STATIONS W. 30. OMOUND PLOCE AREA 848 Mingle | Double Stud and Pleaser Frame TOTAL PLOOR AREA 5.3 Provident Balls Lun Tasterol Metal B I' a I' Street Walls Ply Wood Massay. Brick Walte Citied Plentered or Called Brick With Planters Planter Board Floore Connete Wille Printed ARRYNCE RULLDENG Con. Willy Principes States Varyan Frence Take Walle Relocation Rain Con Stell Wastewarlad Manney Understant Plantend or Called Lancostni Walle Places NETERIOR PACING INTERIOR VALM TANKS, BTO, LIST Siding Stonglas Shakes Stone Out. Center Sine Metal 12 ü Doors Stone Cut % 14. Terra Corta 44 district Struct Glass Variabed DOCKS AND PURS 17 Painted Uniterelat PLOOR CONSTRUCTION Treated Piler and Timber Som Con All since Distressed ! Treated Piles only 122 Mill Creatypolon Average Length 32 Sein Con. Pared Other Buildings Courtraction Floor But Disension SF Aren | Parise Value % Days Depres. Not Yours.

#### 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

H-52@ 10 #31 9 #30 #230 - Approimate Limit of Refuse --- King County Landfill Boundary APPROXIMATE SCALE IN FEET ● #24 WSDOT Geotechnical Boring Location 1000

ASSOCIATED EARTH SCIENCES, INC

179 Modrone Lone North Bolistridge Island, WA 98110 (208) 780-9370 FAX: (208) 780-9438 811 50h Avense, Suite 100 Kristand, WA 98033 (425) 827-7701 FAX: (425) 827-9424

DATE: 07/28/98 DESIGNED/DWN: JJS/PSB WSDOT Geotechnical Borings - SR 509 & SR 99
South Park Custodial Landfill
King County, Washington

PROJECT NO.

VB9741

FIGURE NO.

3-1

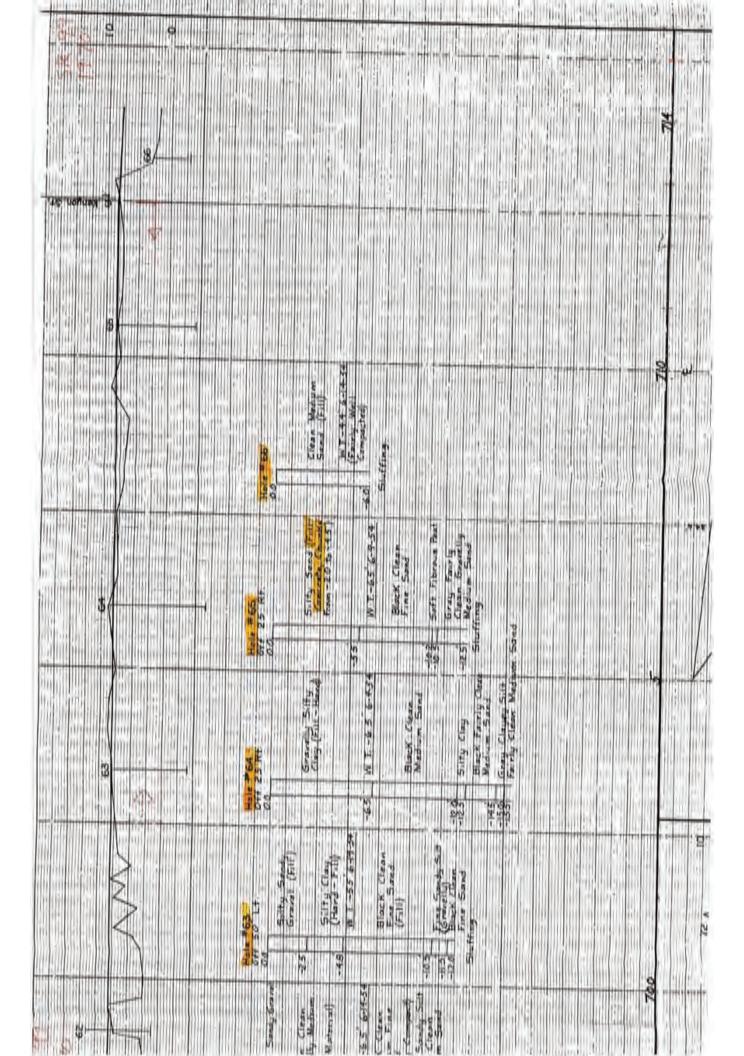
ERV. +1, 5' DATE 4-20-82 HOLE NO H- 5D DESCRIPTION OF MATERIAL 4 times = 1.0' SECTION SIZUTES to Holden st. 급 OFFSET 45.0' Pt. 86 HWY. NO. EQUIPMENT STAND TOO IS JOB NO. L-7425 ON STANYS STA. 707+ 75 11. C. HILL STATE INSPECTOR. нтчээ С

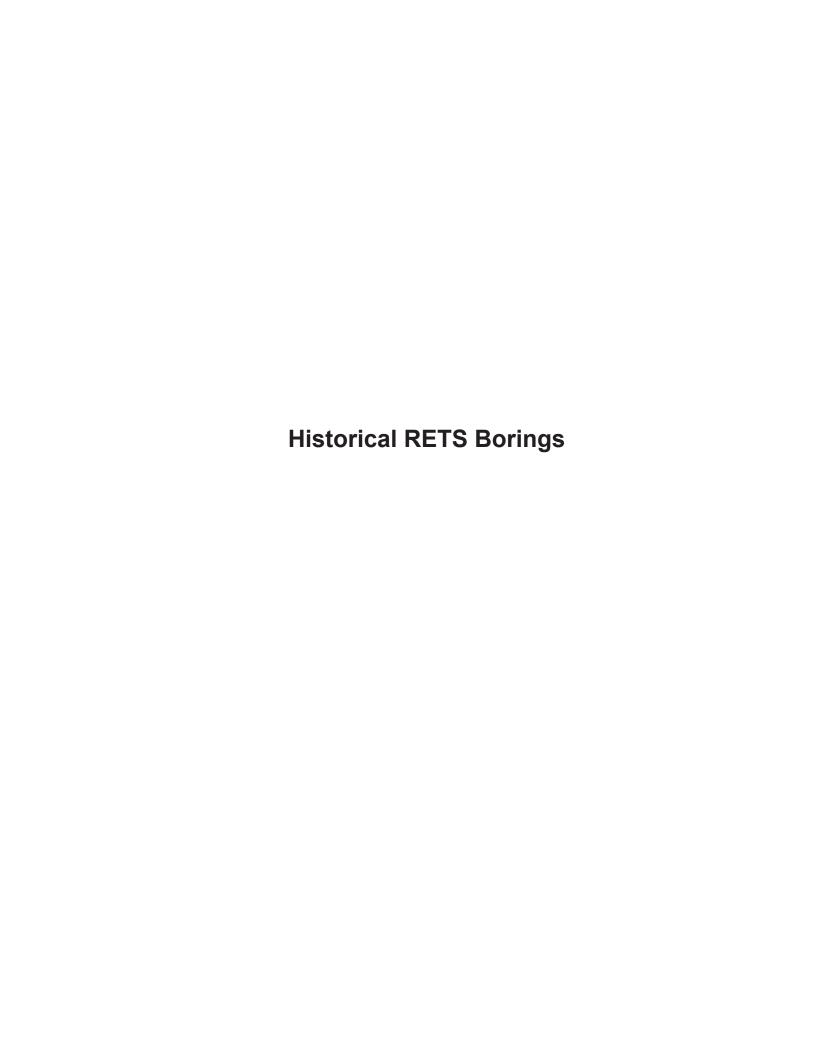
brown moust med dence st gravelly silly line to grey agaist med dease st silty sandy fine to 18.1-¥ Similar to SS# 2 SS free whater ace (core #23) Baring SAND Coorse G-PAVEL Similar to End of renedium este No F) 400 100

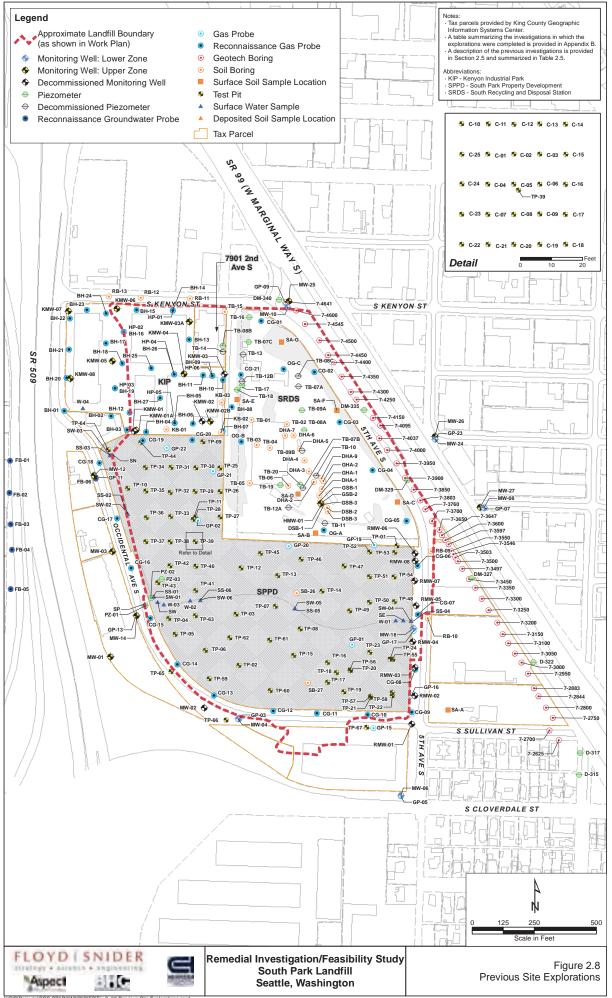
grey most med dense mattled maist med stiff DATE 9-20-82 signatelly silty fine End of Bering -2.5" TILS GOODS FILE HOLK NO. 1-17 DESCRIPTION OF MATERIAL SAND 2 # 55 OFFSET 53.0' Rt ELEV. SKETTON S 124 th St. To Holden St. No free Water Lines = 1.0 In Shoolder median Similar To 66 acta Ŧ JOB NO. 1 - 7425 HWY. NO. acP ROUIPMENT Hard Tools TUBE SAMPLE NO. STA. 701+90 H.C. PROFILE EM018 INSPECTOR. нтые 16 25 3 20

DOT 100017

DOT Permitted







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	TATIO	OF PA	VEME	1		227	3	* 1	WITCH LEVEL	10'	14.5'	YME	TIME
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/	/		/		1				coarse o	ravel	1000		
1	/		/		1	-	いか						
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/	/		/		1	1	K	7000					
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/	20/	7/	18/10	1/-	5				some fine	gravel;	abundar metal ar	nt al	ass		0910
3/	20/	7/	- /	1/2	5				some fine	gravel;	abundar metal ar	nt al	ass		0910
3/	20/	7/2	- /	1/-	5		医 经	SAND -	as above;	glass, r debris;	abundar metal ar	nt al	ass		0910
3/581	70/15	1/2/2	18	1/-	5			SAND -	some fine	glass, r debris;	abundar metal ar	nt al	ass		0910
3/581	7.0/125	1/1/2	18	1/-	10-		10	SAND -	as above; wallboard	glass, r debris;	abundan netal ar odor	nt al	ass ssible	gypsi	0910
3/581	7.0/125	1/2/2	18	1/-	10-	W.L.	10	SAND -	as above; wallboard as above;	glass, r debris; brick	metal ar odor	nt ol	ass ssible	gypsi	0910 im 0915
3/581	7.0/125	1/1/2	18	1/-	10-	0912	10	SAND -	as above; wallboard	glass, r debris; brick	metal ar odor	nt ol	ass ssible	gypsi	0910 im 0919
3/581	7.0/7.5/10.0		18/13		10-	- P	を記する	SAND - SAND -	as above; wallboard as above; dark gray volcanic	glass, r debris; brick	metal ar odor	nt ol	ass ssible ace si	gypsi	0910 im 0915
3/581	70/75/100		18/13	1/-	10-	- P	を記する	SAND - SAND -	as above; wallboard as above;	glass, r debris; brick , fine to and quar	metal ar odor	nt ol	ass ssible ace si et	gypsi	0910 im 0919
3/set/	70/75/100	1/2	18/13		10-	- P	を記する	SAND - SAND -	as above; wallboard as above; dark gray volcanic as above;	glass, r debris; brick , fine to and quar	metal ar odor	nt ol	ass ssible ace si et	gypsi	0910 im 0915
3/set/	9.5/10	1/5/5	18/13	8/-	10-	- P	を記する	SAND - SAND -	as above; wallboard as above; dark gray volcanic as above;	glass, r debris; brick , fine to and quar	metal ar odor	nt ol	ass ssible ace si et	gypsi	0910 im 0919
3/spt 4/spt 5/5/5	9.5/10	1/5/5	18/13		10-	OTEA SEA	を記する	SAND - SAND -	as above; wallboard as above; dark gray volcanic as above; trace gra	glass, r debris; brick , fine to and quart 2 inch :	metal ar odor	nt ol	ass ssible ace si et d at t	gypsi	0910 im 0919
3/501	9.5/1.0	1/5/5	18/13	8/-	10-	OTEA SEA	(A) (14) (A)	SAND - SAND - SAND -	as above; wallboard as above; dark gray volcanic as above; trace gra	glass, r debris; brick , fine to and quart 2 inch : vel; poor	metal ar odor	nt ol	ace si et d	gypsi	0910 im 0919
3/spt 4/spt 5/5/5	9.5/10	1/5/5	18/13	8/-	10-	OTEA SEA	(A) (14) (A)	SAND - SAND - SAND -	as above; wallboard as above; dark gray volcanic as above; trace gra	glass, redebris;  brick  fine to and quart  ivel; poor	metal ar odor	nt ol	ace si et d	gypsi	0910 m 0915
3/spt 4/spt 5/5/5	9.5/10	1/5/5	18/13	8/-	10-	OTEA SEA	(A) (14) (A)	SAND - SAND - SAND -	as above; wallboard as above; dark gray volcanic as above; trace gra  dark brow	glass, redebris;  brick  fine to and quart  ivel; poor	metal ar odor	nt ol	ace si et d	gypsi	0910 m 0915
3/set / 5/5/5/5/	7.0/ 7.5/ 11.0 12.0/ 13.5 14.5/ 14.5/	1/5/5	18/13	8/-	10-	OTEA SEA		SAND - SAND - SAND - SAND - SILT -	as above; wallboard as above; dark gray volcanic as above; trace gra  dark brow brown; po	glass, redebris;  brick  fine to and quarticel; poor	metal ar odor	nt ol	ace si et d at t	gypsi	0910 m 0915
3/spt 4/spt / 5/spt / 7/	7.0/ 7.5/ 11.0/ 11.5/ 11.0/ 11.0/	1/5/5	18/13/18/18/18/18/18/18/18/18/18/18/18/18/18/	8/-	10-	OTEA SEA		SAND - SAND - SAND - SAND - SILT -	as above; wallboard  as above; dark gray volcanic as above; trace gra  dark brown; poorganic	glass, r debris; brick , fine to and quart 2 inch : vel; poor	metal ar odor  medium tz clasi silt ini rly lami to coars inated.	nt ol	ace si et d at t	gypsi	0910 0915 0936 094
3/set / 5/5/5/5/	9.5/ 11.0/ 11.5/ 11.0/	1/5/5	18/13	8/-	10-	OTEA SEA		SAND - SAND - SAND - SAND - SILT -	as above; wallboard as above; dark gray volcanic as above; trace gra  dark brow brown; po	glass, r debris; brick , fine to and quart 2 inch : vel; poor	metal ar odor  medium tz clasi silt ini rly lami to coars inated.	nt ol	ace si et d at t	gypsi	091 091 093
3/5PT 4/5PT / 5/5PT / 7/	7.0/ 7.5/ 11.0/ 11.5/ 11.0/ 11.0/	1/5/5	18/13/18/18/18/18/18/18/18/18/18/18/18/18/18/	8/-	10-	OTEA SEA		SAND - SAND - SAND - SAND - SILT -	as above; wallboard  as above; dark gray volcanic as above; trace gra  dark brown; poorganic	glass, r debris; brick , fine to and quart 2 inch : vel; poor	metal ar odor  medium tz clasi silt ini rly lami to coars inated.	nt ol	ace si et d at t	gypsi	0910 IM 0915 0936
3/5PT 4/5PT / 5/5PT / 7/	7.0/ 7.5/ 11.0/ 11.5/ 11.0/ 11.0/	1/5/5	18/13/18/18/18/18/18/18/18/18/18/18/18/18/18/	8/-	10-	OTEA SEA		SAND - SAND - SAND - SAND - SILT -	as above; wallboard  as above; dark gray volcanic as above; trace gra  dark brown; poorganic	glass, r debris; brick , fine to and quart 2 inch : vel; poor	metal ar odor  medium tz clasi silt ini rly lami to coars inated.	nt ol	ace si et d at t	gypsi	0910 IM 0918 0930
3/5PT 4/5PT / 5/5PT / 7/	7.0/ 7.5/ 11.0/ 11.5/ 11.0/ 11.0/	1/5/5	18/13/18/18/18/18/18/18/18/18/18/18/18/18/18/	8/-	10-	POINT SEA		SAND - SAND - SAND - SAND - SILT -	as above; wallboard  as above; dark gray volcanic as above; trace gra  dark brown; poorganic	glass, r debris; brick , fine to and quart 2 inch : vel; poor	metal ar odor  medium tz clasi silt ini rly lami to coars inated.	nt ol	ace si et d at t	gypsi	0910

A The	OF 80		TU D	ADV T	DANC	eco.	CTAT	TON	PROJECT HAME	6 CLEMT UR	S/Metro	7-409	.2
LOCATIO	M SKETS	200	IB P	ARK T	KANS	FER	STAL	IUN		HOLLOW ST		/-405	3
										STANDARD	PENETRATION	TEST	-
									140 LB.	SAFETY HAM	MER DROPPED	30 INCHES	
												START	FINISH
									WATER LEVEL	1111	15.5'	fac	YOUE
									THE	0912	0943	0830	1000
_	-	/ 500	_	_	-	_	_		DATE	2-12-82	2-12-90	3740	DATE
SETUM	SUR	FACE	* /	7	_	ELEVATI		17 I	CASMS DEPTH		- 1	2-12-86	2-12-
Na A	25	20	ments pends	z /	25	5	8		WILLIAM .				_
"/5E	Saur	B.Com. PLA 6. INCOMES	2 /25	1/2	DEPTH M	PRZOBETER	PANTHC 109	_					_
13			1 22	/5°			-	LASSIFICATI	ON	DESCHW	PTION		
/	/		/		20 T								
/	-	. ,	/	-	-		III)-	TNTEDD	FDDFD CTI	T AND CAND	Total and the	C-13-1	
SPT	20.5	16/1	118	1/	- 8	8	iii	INTERB	laminate	AND SAND	<ul> <li>dark gray;</li> </ul>	bedded a	100
ari	1	718	1				hit		raminace	-			10
/	/		/		5.1				END OF H	OLE			
1	/		1			1			measured	depth at e	nd of drilli	ng 20.5';	
/	/		/								ed at 11.5-1		
/	/		/		1	1	-	_	hole slo	ughed below	seal, backf	illed wit	h_
/		_	/		-	1	-		cuttings	above seal	to surface		
/	/		/	1	25 +	4	1						_
/	/		/		25 -								
4	/		/		25 -								
2	4		2		25 -								
					25 -								
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	N DF BO		Varia i	· www.	in a	War.	-		#08 MG 8548	CLEAR URS	/METRO	BORIN		
			UTH	PARK	TRAN	_	_	ATION	PROJECT NAME	METRO ETS-			7-41	50
	VERS		1	- 1	*	10	- 241	REINAL	DRILLING METHOR	HOLLON	STEM AUG	ER		
HOL	DH-	35 1	61	1	1		12	AVEMENT				_	_	
		77	1000	18.		FEN	CE		W. F. C.	FTAUDADD	DENETRAT	TON TOO	-	_
TRA	NSFE	Ŕ	(0	7-41	150	*	0	1		STANDARD				-
STA	TION		1	1	y:		×	1	140 LB.	. SAFETY HA	MMER DRUP	PEU 30 .	START	FRISH
	PAVE	MEN	T	11	n.		*	1	WATER LEVEL	12.51	16'		TIME	TME
				1	0 7	- 40	95	* +	796	1106	1143		1015	120
					-			N	DATE	2-12-84	2-12-84	-	DATE	DATE
AT UM	SHE	REACE			7	EUDVET	ine.	18'	CASHS GEPTH	10.00	2-12-50	1	-12-84	2-12-8
			_	1 - /		1	1 - 1	SUMPACE COND	OFFICE MOITING	RASS COVER				
14/	State Breta	STATE OF STA	SHE A	III/	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COMME	MANNE LDE			GROUND <1.0	("B")			
1	3.8	2.	MORES DA	15°	2.2	8	5		17714 341334134		1.57			
3		-	1 82	15	-	10	1	D. ASSIFICATIO	-	OE SENS	THOM			
1	1		/	-	0 T	-		-	FA	-				
-	1		1	-	1	1	7.5						_	
1	/		/		1	1	12				-	7700		
1/	2.0/	25	16/	B/			13.	10,010						
391	3.5	50	14	/-			100	SAND +		ine to medi				
/	1/		1/	1	1		133		AND DESCRIPTION OF THE PERSON NAMED IN	lass, concr			in	
_	/		1		1	4	1.03			inches, res	t of reco	very is		105
1	1/		1		1 1	-	10		slough			_		105
7 /	4.5/	18/	18 /	3/		ń.	2.5	SAND -	brown f	ine to medi	um: trace	prayel		_
SP	1111	20/15		1/-	54	4	30	Sitilia	brick, co		unis Li uuc	di di ci	-	110
1	1	21-	1	1	1		1							
/	/		/		1 1	1	334							
3/	7.0/	17/2	118/	18/				21111						
1507	8.5	/20	15	/-	1		227	SAND -	as above	brick			_	
/	/	1	1		1	4	Sec.					_	_	_
-	1		1	-	1 1	1	1	NOTE	hit chat	ttering at	91			
/	/		/				13.53		DIE GIIG	cur my ac				
4/	9.5/	16/	118/	12/	10-	4	155	SAND -		y, fine med				
150	11.0	19/19	13	1-	10	1	17.			clasts, qu	artz; wet	; naptha	aodor	
1	1/	1	1/	11/		SEA.	1///		glass fra	agment			_	112
-	100	16/	1	10	1	-	40					_	_	
1500	12.0	12/1	18/	25/		10	F	INTERR	EDDED CAME	D AND STIT	- dank on	av. fin	e to	
1	1/	1	1	1		DE VIOL	1			fining towa				
1	/		1			/I Dt			in silt					113
/	1/	1	1/	10-29	1 1		M	NOT	E: petrol	eum odor no	ted at 14	1		
_	/	107	1	10				0717		4 - dr - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		4.0.0		
6/	125/	/12/	118/	12/-	15 -		1111	SILT -		aminated: s				_
SF	16.0	1/10	1 10	1	101	8	1111		odor pr	laminae: obably from	slough	ay, nap	111E	114
1	/		/						2407 1 213	COUNTY LEGIS	a rovern			-,-
7/	17.0/	5/	18/	18/										
SP	18.5	18/2	18	1-		4		SILT -		aminated; w				
1	1/		1		h/l	8				rich lamina		ace of	sand	and
-	1	1	1	-	-			-	Clay	laminations		_		115
/	/		1	1		H					-	_		
8	19.5/	2/	118/	18/	20			SILT -	brown: a	lmost fine	sand: tra	ce of n	lant	
1	1/	V3/	1/2	1/	200	7	1		debris	top 12 inch	ac			

	OH OF BO		THE D	ADU T				7700	PROJECT HAME		URS/MET	RO	BOWING NO.	.2 -
LDCAY	NG CO	CH SUL	IIH P	AKK I	RANS	FER	SIF	TION	-		ETS-7	MINER	7-4	150
No.									DRILLING METHOD	HULL	OW STEM	AUGER		_
1														
									SUPLING WETH					
									140 LB.	SAFETY	HAMMER	DROPPE	D 30 INCHES	
1									WATER LEVEL	[12.5"	16'	-	THATE	THE
4									THE	1106	_	-+	1015	100
									DATE	_	2+12-84	-	1015 pere	120
CATUM	St	IRFAC	F			ELEVERY	SW.	18'	CASHG DEPTH	12-12-30	X+12-84		2-12-80	2-12-
	1	100	- E/	× /		1.0		SURFACE CO	NOITION.					-
1 /	Series Series	ROSS FOR	INCHES DANKS INCHES DANKS	HN/	111	HESOMETHN	MARTIE LOS							
1			CON CON	CH CH		20	-							
Y A	17		1		000		7	CLASSIFICAT	ION	-	ESCRETION_	_		_
1	/		/		20	1	Ш	SAND	dark gra	y, fine	to medi	um; vo	lcanic and	
1/	1/		1/	1		4			quartz g	rains,	ast 6 i	nches	2-2	120
9	22.0/	5/	18/	0/	1	1				_				_
1/500	1/	11/16	1/	/-	1			SAND .	dark gra	, fine	to medi	um; vo	lcanic and	
17	1/		1						quartz c	lasts; t	race of	plant	debris	12
1	X,	-	V,											
1/	1/		1/		1	10	77	END OF	HOLE	_	_		_	_
1	17		17			1		LIND O		oth meas	ured at	18 fe	et, 5' of	
1	/		/		25 -	1			heave?;	water le	evel at	16";		
17	1/	1	1/	1	1				hole slot	ighed to	11.0;	benton	ite seal at	
K	X		1	-	1	+		-	10.5-11.0 to surface	hole	filled	with	cuttings	-
1/	/		/		l t	1			co Suria	···		_		
1	1/		17		1	1								
1	/	-	/		1	1								
1/	1/		1/		0	-				_		_		_
1	1	-	17		1	1								_
1/	/	111	/		1 1	1		/						
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11 2	17		1/	1	1								_ "	
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Andrew Co.	OF 90		OTM .	DADY	TDAA	eee	0 57	ATTON	200 NO 8546	METRO ETS-	S/METRO:	BORING NO.	1 -2
	H SKET	CH		PARK	TRAN	_		RGINAL	PROJECT NAME	The state of the s		7-425	0
L	10	40	1250	*		1	Way		200000 Sq.1155	HOLLON, S	Tell Hoden		
25	1/2	257	3	4	FEA	/CE		PAVING		444744		- Lile	
L16	HT	al	1	- 1	7			the same			MMER DROPPED		e
			S ON	335	1	*		1	140 Lb.	SAFEII HA	MMEK UKUPPED	START	FAISH
1. (				HOL	VERS	13	4	1	WATER LEVEL	111	15'	THE	TWE
PAY	EIN	G	(	10			1	4	THE	1415	1447	1345	1510
				7	- 415	50	-	, i	DATE	2-12-86	2-12-82	DATE	CATE
сти	SUF	FACE	1 - 7			O.FW	TICH	16"	CASHG DEPTH		1,111	2-12-96	2-12-8
1	**	22	Short and	IN /	*2	1 5	8	-	GRAS	S COVER	the n t		
751	31 mm 12	8.095 PE	CHCHES CONTR	1/4	1333 M	PETRONETTA	STANC 100	Н	Nu BACKGRO	DUND 41.0	("B")	_	
1	19	**	1 25	100				CLASSIFICATI		DESCRI	PTION		
/	/		1		07	-	1917	CAMP	FILL	Inn to midd	***** **	1+.	
-	-		1		1		100	SHNU -		e to coarse	um; trace si	161	
/	/		/		1 1	]	123		44104-1-110	30 3001 30	41.41.41		
/	/		1/	1		1	00		-00				6=53
(	/	14/	/	0 /			00	GRAVEL	AND SAND	- brown to	gray, fine	and coars	ė.
1501	200	20/2	118	18/			. 0.	GRAVEL	brick fr		gray, rine	and coars	140
1	7	- 20	1		1		00		<u> </u>				
/	/		/	_			3.						
2/591	50/	/21/	18/14	11/	5 4		150	SANIT	dark ora	y fine to	coarse; some	fine nea	vel.
371	100	115	17	-		И.	315	SAILU -			s, concrete	Time gra	1413
/	/		/		1 1		133						
/	/		1/	11/	-	-	100						
37	7.5/	6/	18/	10	-		1	SAND -	dark ora	v fine to	coarse; some	silt at	
Set	190	14/4	14	/-		M	133	5/1/10	top; tra	ce fine gra	ivel; volcani	c and qua	rtz
/	/		1/	1			制		grains;	wet			1420
4/	- 2	27	1	1.	-	H	245						_
	10.0/	10/	18/18	1/	10			SAND -	dark gra	v. fine to	medium; fini	ng toward	
7	1	1	17		1	V			tip; tra	ce gravel;	volcanic and	quartz	
1	/		/			PHS	3 100		grains;	indistinct	laminations	at tip; w	
1	/		1/			Hill	DI	-				_	143
5/	12.5/	17	18/	11/	1	7		SILT -	grav: tr	ace fine sa	and; little w	ood debri	5,
1301	140	1/8	/18	/-		3			organic	lamination:	; laminated		144
1	/		1				3111			1.00			
-	1000	100	100	1.		H	111	-			_		
1/301	15:0	75/	18/1	1/-	15	100	133	SAND -	- dark ora	v. fine: to	race silt at	tín:	
1	1	1	1		10	1	2			and quart:			145
/	/	_	1	-		B		-					
1/	1/		1/	11/		H	135	-					_
7/	15/	13/	18/	11				SAND -	- gray, fi	ne; some s	ilt laminatio	ns;	
1800		5/3		1/-			1			d; poorly			
1/	1/	1	1/	1	1	14	19					_	_
1	1	-	Y	1	1	H	15		_				_
/	/		1/	1	20-	4	1			_			

	NG C		пити	DADY	TDA	SEE	0 5	TATION	PROJECT HAME	METRO ETS-	Ş/METRO	7-4250	. 2
	H SKET		0011	PARN	IRAI	IDFE	К 5	MITUN		HOLLOW S		7-4250	
										OG STANDADD	PENETRATION	TEST	_
											MER DROPPED :		
												START	FINISH
									MALEN TENET	111	15'	100	1
									CATE	1415	1447	1345	151
	5(10	FACE		_		Tue.		16'	CASING DEPTH	2-12-86	2-12-50	2-12-86	1
HUTE /	JUN	1	1 8 /	1-/		ELEVE		SURFACE COM				18.18.19	- 14
1 2	SAMPLE DEPTH	A DWS PER	1700/1	Z/	DEPTH W FEET	PERCENTER	Mante too	_					
TOTAL	22	6.	HCHES DON	15	22	ž	3			7.0			
	20.0/	5/		10		-		CLASSIFICATI	04	DESCH	PTICA		
1501	-	9/9	18/8	1/-	20		~	SAND	- dark gra	v. fine to	medium; fine	at top.	
/	/	-	1	8/		ì			medium a	t tip; tra	ce of plant	fiber	
(	/_		/	10		_	127	PHD A	e hare				_
/	/		/		1	1		END O	F HOLE -	onth measur	ed at 17', 3	of heav	9
1	7		1		1		1		water le	evel 15' in	side auger,	nole slou	ghed
/	/		/			1			to 14.5	. bentonit	e seal at 14.	.0 - 14.5	,
/	/		1/	1					backfill	ed with cu	ttings to sur	rface	
-	-	-	1	-	1	1		NOTE	- On etart	ing novt h	ole, auger fo	nund to b	P
/	/		/		25	1		HOLE	plugged	with bento	nite. Belie	ve that	_
7	7		17				13		bentonit	te bridged	on putting se	eal in th	is
4	/		/		1				hole,	There is, t	herefore, pro	bably lit	tle
/	/	-	1/		1	1		_	or no se	eal in this	hole.		
-	1	-	1	+	1	1							
/	/		/		l	1							
/	/		1/	1									
-	-	-	/	-	1	4		-				_	_
/	/		/		1	1							
1	1		1/		1 1	1							
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1	7		1	1	1	1					-		
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7	7		1	1	1 1								
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/_	/	-	/	-	1	4							_
/	1/	1	1/		1 4	4		-	_				

LOCATION I				216	20.1		-		же мо 854		S/METRO	BOWING WO	
LOCATION		SOUT	H PAR	RK.	TRAN			ATION	PROJECT NAME	TIETRO ETS		7-4300	
1	474.189			×		1	P.	RGINAL	DRILLING METHOD	HOLLOW S	TEM AUGER		
,	1		19	1	1		18	EDGE				_	
	1		9 7-4	1300	1		1	-000	SAPLING METH	STANDAR	D PENETRATION	TEST	
TRAME	1		1		b	1		1		-	AMMER DROPPED		5
STATE		1	1	40,		1		1	7.00 40		THE POST I	START	FWISH
1,500		1		1			*	1	MATER LEVEL	6'	12.5	1945	THE
PAVI	NG EC	GE+	1 .	0	7-	4250	1	1	THE	0918	1000	0900	1030
	.0127		1.0	-116	HT	_		M H	CATE	2-13-86	2-13-96	DATE	DATE
	SURFA	CE		-		ELEVATI	1977	14.01	CASHG CEPTH			2-13-74	2-13-80
100		STATE OF THE PERSON NAMED IN	III's	/	.5	4		SOUTHER CON	GK.	ASS COVER	FUELS		
41	Contract of the contract of th	THE PERSON NAMED IN			press in cuts	PETONCHE	Marrie 100		HNU BACI	KGROUND < 1.	0 ("B")		
15		. /	10/2	700		35		CLASSIFICATI	iow.	05.909	PTION		
1	1		1		OT		570						
1/		1			-	-	N/11		FILL				
/	/	10	/		-	-	1	SAND -	dawk boo	un fine f	o coarse; som	n finn to	
X	1	1	1	$\neg$	1		4	aninu -		ravel; gla		e i ine co	
//		1			1	1	13			<del>9.u</del>			
1/2.	5/12	118	S - 1 1	1	- 1			SAND -			o coarse; som		avel:
1505/	5.0	19/23/	18/	-		ı	231		yellow c	linker gl	ass, wood, br	<mark>ick</mark>	091
1													
2/5	0/18	/ 18	1	7		1							_
100	6.5	11/2/	5/	4	5	i i	7.7	SAND A	AND GRAVEL	- black.	fine to coars	et wood o	lebris
	/	1	1		П	V	100			terial; we			092
//		_/			- [	N. W.							
/	/		/		-	0918		_					
2 /2	-/17	/ 18	1/2	1			22	SAND -	dank inna	v fine to	medium; trac	a of fine	
3/5PT	90/	11/19	16/	-	- 1		35	JANU -			lant debris	e or mar	093
	/		B	1		3	0.53						
//		,/	1	0	I	1							
4/10	0/2	3 /18	219	/	10		44	CTITY	CLAY - hu	and Tamés	124414	-1-11 22	_
1515/	115	15/	18/	-		8		PILIT			ated; little bris and orga		ration
/	/	1	/		1		<i>777</i>				last 6 inches		
1	1	-	1		1	1	H		proanic		and o menes	DETON 3	095
//	/	1				1	BA	F					
	5/3	, 11	/	/	-		11/1	SANDY	SILT - da	rk gray, f	ine; trace cl	ay:	
SP1/	14.0	18/	12/	-		li .	(EE)			d; volcani	c clasts; abu	indant pla	
/	/	.10	/			7			debris				100
6	5.0/ 9	7 1	1	-		-	mil						_
SPT	165/3	3/9/13	18/	/_	15	1		STLTY	SAND - da	rk grav. f	ine grained;	laminated	1:
1	1		1			Salden	111	0,011	plant de	bris at to	p	- 400-110-4-63	101
//		1				2							
1	1		1				DE						
2	10	1		-		P	3.75	CAND	danta es			- C144	_
SPT	19.0	-/	18	/			12. E.	SAND -	The second second second		medium: trac		_
1	14.0	1	18	1		Ħ	1.7	-	19minati	ons: voica	nic and quart	7 grains	
/	/	1	1/	0		1	2371	END OF	HOLE - H	ole slough	ed to 11 feet	, benton	ite
1	1		1		20				at 11.0 -	11.5 feet,	backfilled v	ith cutt	ings:
//	/	1	1	444	20 -				tot	al depth m	easured at 14	inside	auger

2000	NO DO		with the	nanu					HOJEST NAME	46 PM	TURS/	METRO	- 0	DRING MO.	1.1.
	NG CO	TH.	-	PARK	TRAN	SEE		ARCHMAL.	SPELLING METHOD	DIETRO	ETS-7	M AUGE	D	7-4350	
1	1-6-	LIGH	T	1	FE	HEE	1	~~,	Section Section	0. 11002	UN JIL	N AUGE	IV.		
	Las	69	*	. 10	×		1	EDGE -							
	1	-	1	13	1			V	SAMPLING METH				ATION T		
	1		.0	7-4	150	1		1	140 L	B. SAF	ETY. HA	MMER D	ROPPED	30 INCH	FREN
PAVE	MENT	1		159		×		1	WATER LEVEL	T NOT	MEASU	ndo		TIME	THE
	DEE	1		1			*	-1	THE	NOT	MEMSE	KED		1100	1300
		1		3	7-43	00	×	4	DEE	-				DATE	DATE
CEFUN	SURF	ACE				DEVE	OI.		CASHG SEPTH					2-13-90	2-13-1
18/	4	24	BOHUS PHINTS HES	"/ H	100	1 2	8 1	MEACE CONCI	GR.	ASS CO	VER				
72	SAMPLE	ROST FEB	HOHE PACON HES		22	PR. FORE PA	PARTIE AND								
13-	4.5	2-	A RECOVER	15	- 2	1	4 - 1	ASSIFICATION			DESCRIPT	TOW .			
1	1	-	17		0 +	1					0.00-1-1	-			
1	/		/		2.1	1			FILL						
/	/	Vii.	/	7	1	1	139				_	_	_	_	
1	1	_	17		1	1					-				
/	/	-	1			1									
1/	2.5/	112/	118/	-/	1			SAND - C	dark brow	wn, fi	ne to	coarse	: trace	fine	
SPT	4.0	7	1/6	1-	1	4	3.5		ravel;	<u>cerami</u>	c, gla	ss, br	ick. cl	inker	
1	/		/		1	+			debris		_	_			112
2/	5.0/	1/	18/	1-/	5		THI						-		
SM	165	2/3	14	1-	3	1	THI.	CLAYEY S	SILT - gt	ray, mo	ottled	; plan	t debri	s and	
/	/	-	1/				TH		organic glass at	lamina	tions;	root	traces;	biotur	
-	1		1		1	1	批		glass ac	cop	-	_		_	114
/	/		/		1		34								
3/	75/	1/9	118/	1		0	10.3	SAND - C	iark ora	v. fine	e to m	edium:	lamina	ted; tr	ace
1597	19.0	110	/18	-	1	į.			fine gray				quartz	grains;	
/	/		/				183		some she	115 DO	SSIDIE				115
4/	10.0/	1/	118/	1	100		HI								
SPT	11.5	1	/18		10	4	Ш	CLAYEY S	SILT - b	rown,	amina	ted; al	bundant	plant	debri:
/	1/	1	1	1-/		354	4//4		and organ			ons; m	ottled,	probab	
-	1	-	Y-	10			171		root turi	patrons	5	_			120
1	/		/		1 3		计符							_	
	12.5/	3/4	18/	1	1	2	111	SANDY SI	ILT - gra	av to i	חשסים	at top	: littl	e clay	and
SPT	14.0	1	18			Š			abundant						
/	1/		1/						to fine :		silt a	t base	glass	fragme	121
6/	15.0/	2/	118/	1	1000	4	HE		in agraure	G.					161
SPT	16.5	12/	1/18		15 7			SAND AND	SILT -	gray a	and br	own. f	ine to	medium;	
/	1/		1/	1		3		- 1	poorly la	aminate	ed; vo	lcanic	and qu	artz gr	ains;
2	16.5/	167	110	-	1	1			silt for		rete	layer	paralle	I to co	
1/2	18.0	17	118/18	G 1	1 1	3			Darrel: 0		ray	fine to	modifie	n+ lami	123
1	1	1	1	1	1.04	1	118	Same Pill	silt laye	er para	illei	to bar	rel, po	ssibly	
/	/		1						scrapped	off ho	ole si	de on i	way dow	n	124
/	1/	1	1/			4		END OF F	10LE - h	ole slo	oughed	to 11	feet,	bentoni	te
1	/	-	1	-	133	H			seal 10.5				KTITTED	MITH	
1	/		1/		20 -	-	1 4		drill cut	Fride	UD 50	LIGITA			

	OF BO		TTU .	ADV .	TDAM	ren	p-14-	1400 MG 85	46 FLEN	URS/METR	D Bomile		71
	M SKET		UTH F	ARK	IRANS	SFER	STATI		11.00			7-440	00
200	M SKEY				4 56	NCE	W. MAI	DIRLLING METHO	HOLL	DW STEM AU	GER		_
	1				*	-	PAI		_			_	_
	,	/		- 30	المئد	X	15	GE	STA	MUNDOU DENE	TRATION TES	T	_
		1	1.19	10,7	-4400	1	1	140 IR			ROPPED 30 I		
		1	Digitio	Hr )	100	1		1 100 00	. 2011 47	1 THERETE !	101100 00 1	START	FRISH
7	AVIN	·	1		13.		1	MALEN FEAT	1 10.7	10.8		THE	TIME
	ED	GE-	-		6		+	T THE	1520	1530	1	400	153
			1	4		7-43	50 4	N DATE	2-13-94	2-13-94		DATE	OATE
CITUM.	SURE	ACE				BLEVE					1 2	-13-94	2-13-5
18	2.0	5.6	DE /	III.	132		8 SURF		ASS COV	ER			
1/2	BEFTE	A MORS	HONES BONES		95436 W 7555	PETSMETTH .	MAN 100	HNU UNAVAI	LABLE				
150		9-	100	/E		=	4	FICATION		CESCRIPTION			
-	7		1	-			1	PLATION		CE SCHOOL INC.			
/	/		/	1	TO		22	FILL					
/	/		1/				7.9	n - 1			A	100	
	/	_	1			1	SP				um; some fi	ine .	
/	/	10	/		1	1	-	to coars	e drave			_	
1/	2.5/	1/	18/				S/	D - brown, f	ine to	medium: tr	ace silt:	rick	
1500	4.0	12/4	/12					glass; c					144
/	/	12.1	1			1	a.						
	4	17	1	-	-	-	11.						_
2/	50/65	18/8	118		5		111 51	TY SAND - br	nun fi	no to coar	se trace o	rave	12
SPT	-	210	1			1	111-3	glass	Owity 11	the cu cour	se, crace c	TUVE	145
/	/		1			1							
/	/		/		1	1							_
-	7.5	57	100	-			15.	D deub eus		** ****	A Bushe of	elaet	-
SPT	190	3/4	18/18			g .	1 5/	D - dark gra	poorly	laminated:	volcanic q	rains	150
1	7		17				148	debi ist	poor ry	Tomittacca	TO LOUISING S	7.57110	
1	/	_	/		1 1	1							
. /	100	3/3/	118/		10		ALL	VEN ETT 3	2-54 65	17:16		_	_
SP1	11.5	3/3	18	-		NO.	1114	YEY SILT - 1			ic laminati		_
1	1		/			뫁	##	plant fr			- samma u		153
1	7		17	1	1	364	1111	prune n	MAINERI US		-01		10.
/	/		/		1 [	1							
	125/	1/1	18/			9	S	DY SILT - q		ne; lamina	ted; plant		_
1397	140	/1	/18	-	1	1				aminations	; soft sedi	ment	154
/	/		1			1		deformat	1011			_	154
6/	15.0/	2/	18/		1	1	1						
SPT	165	15/			15		SA	D - dark gra					
1	/	1	/	-/						lcanic and	quartz gra	ins	
1	11.5/	-	12	10	1		117	plant d		S. A. Star	Jan 1981 7 1		
100	18.0	13/	18		1	0	SB	- as above	. top 1	inches			1555
1	/	7.0	1	1			TIST	TY SAND - da	rk grav	, fine: tr	ace of wood	1	
1	/		/			1	THE.	fragment					
1	/		1/		1	-	-	AF DALF		AL -22	4 45 17 6	Terro	10
/	/		1	1		-	EN			oth measure ughed to 1	ed at 14.6		
1					20								

	N OF 90		WITH DA	nv m	ANTON	en ettanion	×≈ × 854		S/METRO	BORING NO	
	INID L		JUIH PA	KK IR	ANSF	ER STATION	PROMET NAME	175-1750 1-0		7-4450	-
1	1			1		MUNECINA	DRILLING METHO	DE HOLLOW S	TEM AUGER	_	
	1		and a	130	FENL	E PAVEMEN					_
1		1 ,	-9450	ALL DE	1	120	SHIPLING MET	STANDAR	D PENETRATION	TEST	
11		1	1		1	1 >			MMER DROPPED		
1 3	PAVEL		1			1				TIME	Fielda
	EDI		3/	30'		1 ,	MILES FEAT	6.5'	10.4	164	TIME
1			1/3	S- LEHT	4	1	THE	0900	0950	0830	101
1	A. (e.	12.00	-	LIGHT	7-	4400	DATE	2-14-86	2-14-86	DATE	047E
Datum	SURF	ACE	T . A	1	100	ATION 11.5	CASHG DEPTH	COUED		7-14-86	2-19-9
29/	25	22	HIN.	// 3	9 0	3	GRADS	COVER			_
I /SE	34.6PL	A.Dws rds	MICHAEL BON	4	A PLEASURE	-	HNU UNAV	AILABLE			_
1	- Ty		1 35/	10 2		D. ASSIFICA	NC)	DESCR	PTICH		
11/	/		/	0	4	111					
1	1	-	1	-	H	SAND	FII		rse: little f	ing to	_
/	/				H	3. SAND			ck fragments	102 30	
3 1/	2.0/	8/5/	18/			36					
SPT	13.5	14	14		F.	SAND			rse; some fin		
11/	/	7	/	3.4	Н	5.65	grave1;	concrete a	nd crushed ro	CK	08
7	1		1		H	607					_
8	/		/		П	Ug.	1.0				
2/	4.5/	1/1/2	18/	5	B	SILTY	SAND - br	own, fine	to medium; so	me fine q	ravel
SPT	16.0	1/24	/14	-				tain in pla	ces; black an	d wet at	
1/	/		/	11.0	H		glass				090
37	7.0/	4/	18/		H	140					
SPT	8.5	13/4	/18		W	SAND			medium: volc		
1/	1/		1/		3	7/7 07/7			or iron stain		
1	1		1	-	H	SILT		lamination	nd: laminated	plant	091
/	/				H	17/7	depi 15.	Lamion City	2		021
14/	9.5/	3/	18/	1	a d	T CLAYE			nated; blocky	structur	e:
SPY	110	1/2	/18	_ *	M	Tit.	abundant	plant deb	ris		093
1/	/	4	1/	- 1		H					
157	12.0/	11/	119	-	H	117					
8 Spe	1	15/3	118		65	SANDY	SILT - or	av: lamina:	ted; trace of	plant de	bris:
8 /	1/		/		3	112	clayey a	t top; sof	t sediment de		
1K	/	-	/	-	-	1711	mud diap	er at top			094
8 /	/		//	0	H	314	_				_
8	19.5/	1/	18/			SILTY	SAND - da	rk grav. f	ine to medium	: laminate	ed:
1 /209	110	12/5	/18	1					glass: cedar		100
Lind /	1/		1/			3 3					_
3	11.31	8/	18/	-	100	SAND	- Hank men	u fino -	ome silt in p	lacor.	_
SPT	180	19/13			14	- SAMO	volcanie	, quartz q	rains	Idces:	101
1	1/		1			(%)					
/	/	1	/	_	H	END O			measured ins		
1	1		/		H				ckfilled with	cuttings	_
1	1	1	1	-	H		to surfa	CE			
1/	/		1	2	)						

T. S. C.	D 00		THE DAT	nu T	DANC		-+4		PROJECT HAME METRS ETS-7 7-4500					
LECATIO	M SKET	H	TH PAR		KANS			111/0	WILLING METHOD	HOLLOW ET		7-4500	_	
17	-0	1	07-45	45 ×	FEN			AY.	SPECIFIC METHOR		40. 1193000			
	- 3	YE MEN'			×		10	AVING						
ш		3			icial		1		SUPLING METH		PENETRATION			
(1)		-		6	-4500	1		1.	140 LB.	SAFETY HAMM	ER DROPPED 3		THIS	
			1	1	153'	1		1	WITTEN LEVEL	10.01	111.31	TIME	THE	
Ņ.			1		1		×	1	THE	1140	1200	1045	1200	
n .	-0		1		7-	445	,	1	DATE	2-14-80	2-14-84	CAL	DALE	
DATUM	SURF	ACE				ELEVIE		11.5	CASMI DEPTH	1 -		2-14-86	2-14-80	
ER /	72.5	24	1 0 0 m	3/			8	SURFACE CONDI	GRA	SS COVER				
725	Taun.	Acres vita	S S S S S S S S S S S S S S S S S S S	/	\$150 M	PETOWETT	CHAINE LOS		HNU UNA	VAILABLE				
13	**	2-	180	77		ž	5	CLASSIFICATION		DESCRIP	TION			
1	7		1		0								-	
/	/		/		O.L		14-	EAND	FILL	lan be well	(A) (C) (A)	-		
/	/		/	11	-	1			coarse qu		um: some fin	e to	1111	
7	1		1	-		1			200, 30 4	a(c)			1111	
/	/					1								
1/	2.5/	10/4/	18/		F	1					na, fine to		lass	
1501	14.0	/2	/3	-	-	1	30		prick, o	ther debris	, aluminum,	wire	_	
/	/		/	-	-	1	1.0							
2/	5.0/	7/	117/		1	1								
1500	145	1/8	10		5						medium; trac			
/	/		/		F	1			debris;	voicanic an	d quartz gra	ins	1120	
7	1		1		1	1	10							
/	/	-			1	1			1 - 1 - 1 -			-		
3/	7.5/	1/2	18/		-		$\langle i_n \rangle$			; trace fin	e gravel; tr	ace plant		
1500	190	2/3	/18	_			90		debris				1130	
1	/		/	_		See	33							
4/	10.0/	1/	18/		10	TO V	07							
SPT	11.5	13/3	/18		10	1140		SAND -	as above	, 9 inches;	glass fragm	ents		
1	/		/	6	-		ŦŦ	CLAVEY	CILT - N	enun: lamin	ated; abunda	nt anaani	-	
1	1		1	_		1	1			nd laminae	teu, abunda	ne bryani	1140	
/	/		/			1	1	2.1						
5/	12.5/	3/2	18/		1	4	Ш	SILT -	gray, we	11 Taminate	d: trace org	anic debr	15	
SPT	14.0	123	/18	-			Ш						1150	
/	/		/			•	Ш						_	
6/	15.0/	2/	18/			1					7.1			
SPT	11.5	12/	18		15	è	排				- dark gray.			
1	1/	ii.	1/		1		Mi				volcanic and	quartz	120	
2	11.5/	3/	112/	_		3	55	SAND	daek ees	trace plant	orly laminat	ad.	1205	
SPI	118.0	14/	1/18		1		133	SARD - 1	volcanic	and quartz	grains	541	1215	
-	1/		1/				4.5		7					
1/	/	1	1			1	1				14.1 feet me			
/	1						4		******		Charles Start on			
/	1		/		1	4				feet of h		backtille	d	
2	/		/		20	1				tings to su		backtille	d	

1		DF 80		11711	DAGG	Ther			TATTON!	PROJECT NAME	METRO ETS	METRO	BORINS NO.	.1
1	DOATIO	N SKET	). SU	HIU	PARK	IRAN			ARGINAL DAY		MELKO ETS		7-454	10
			1.0	2	4600	1	1	1				TELL MANAGE		
П			1	6	1	1/2	ENC	ELB	EDGE	216.0	CTANDADO			_
И		200	1	1	1	12:3	1		1-	140 IR	SAFETY HAT	PENETRATION MER DROPPED	TEST	
1		PAY		1	8	-	1		1	240 20.	DOLL THE	BEN DROPELD	TRATE	FWSH
1				1		154		1	1	WATER LEVEL	111.0	11.2'	TIME	THE
ΔĬ					1	1	0	3/	* 2	TWE	1425	1435	1400	1500
11	_	ė.	050	-	- 1	_	97-4			CASING DEPTH	2-14-86	2-14-86	2-14-86	2-14-1
1 5	- a /	30	IRFAC	R /	- /		EL EVE	100	SURFACE CONS	UT ION	DACC COVED	1 1	- 100	1700
	4/	Same	A MONS PLA	Sale of	IN /	Stette m 766.1	PETRACTER	951.39		HNU UNAVA	RASS COVER	_		
11	7	78	5.4	MEHES DON	E 4	2.5	2	teanic	1,495,335,1					
14	3	-		1 2	10		-	-	D. ASSIFICATIO	M.	SESCH	F7104		_
	/	/		/		To		34	72.0	FILE				
11	/	/	w = 1	1	77		1	100	SAND -			se: some fin	e to	
4		-	-	/		1		. 6	-	coarse qu	Level			
1	/	/		/			1			- F- V				
_	/	2.5/	1/15/	18				100	SAND -	brown, f	ine to coas	se; plant deb	ris; <mark>bric</mark>	k 141
DOLLER	SPT	40	/1	1		1	1	70.						
8	/	/		/		1	1	2.6						
		5.0	3/9/	18/		5	-	0.		0.111			-	
1	SPT	16.5	1	10	-		1		-	cuttings	reports thi are sand a	nking he was	on metal	:
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Location: Driller/Me		Seattle, WA	a / Hallaw Star	m Augor				 Depth to Water	10.8' BGS (ATD)	
		Cascade Drilling  Dames & Moore		n Auger				Start/Finish Date	6/15/2011	
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-		Concrete seal, 0'-2'  2-inch diameter schedule 40 PVC casing, 0'-8'						Loose, slightly moist, brown, tra (SP-SM); fine to medium sand,	predominantly fine.	-
5 -		Hydrated bentonite chips, 2'-6' #2/12 sand filter pack,	S-1		0.0	1 1 1				- 5 5
		6'-13'								$\perp$
_		2-inch diameter	S-2		0.0	1 1 1		Loose, slightly moist, brown, sli (SP-SM); with frequent, thin SIL	ghtly silty SAND T (ML) lamina.	_
10-		schedule 40 PVC 10-slot screen, 8'-13' \(\sum_6/15/2011\)	S-3		0.0	1 1 1		Loose, wet, brown, slightly silty fine gravel. Soft, wet, gray, clayey SILT (MI Loose, wet, black, slightly silty t Gravelly.	_).	<u></u>
_		PVC endcap	S-4		0.0	2 1 1		Loose, wet, black SAND (SP) w pockets.	vith 2" gray SILT (ML)	
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- King S	sampler			- vvat	er Level	(AID)		Figure No.	B- 26	

		Aspe	CT					Boring Log		
		Y TOP O				t Numb	er	Boring Number	Sheet	
		<b>■</b> CONSULTI	NG		10	0166		MW-31	1 of 1	
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Location:		Seattle, WA							141 DOG (ATD)	
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Elevation (feet)		Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description		Depth (ft)
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+			S-2		0.0	3 3 4		Loose, slightly moist, dark gray smedium sand.	SAND (SP); fine to	_ _ +
10-		Hydrated bentonite chips, 2'-16' ∑6/15/2011	S-3		0.0	4 4 3		Wet.		-10 -
15-		#2/12 sand filter pack, 16'-26'	S-4		0.0	3 5 8		Stiff, wet, gray SILT (ML); with w Medium dense, wet, dark gray to 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 -
25-		PVC endcap	S-6		0.0	5 9 9		Bottom of boring at 26' below gr	ound surface.	-25
O No R	ampler Recover		PID	<b>▼</b> Sta	ation Dete		eadspac	ce Measurement) Logged by:		
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5<sup>th</sup> 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: 5<sup>th</sup> Avenue Properties Ownership History

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

- 8230 5<sup>th</sup> Avenue South, Tax Parcel No. 7883600005
- 8250 5<sup>th</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 5<sup>TH</sup> AVENUE SOUTH - TAX PARCEL NO. 7883600350

The property located at 8250 5<sup>th</sup> 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 5<sup>th</sup> Avenue South Properties Historical Lot Lines (in a 2015 Aerial)

Figure 2 Time-Lapse Aerial Photographs of 5<sup>th</sup> Avenue South Properties

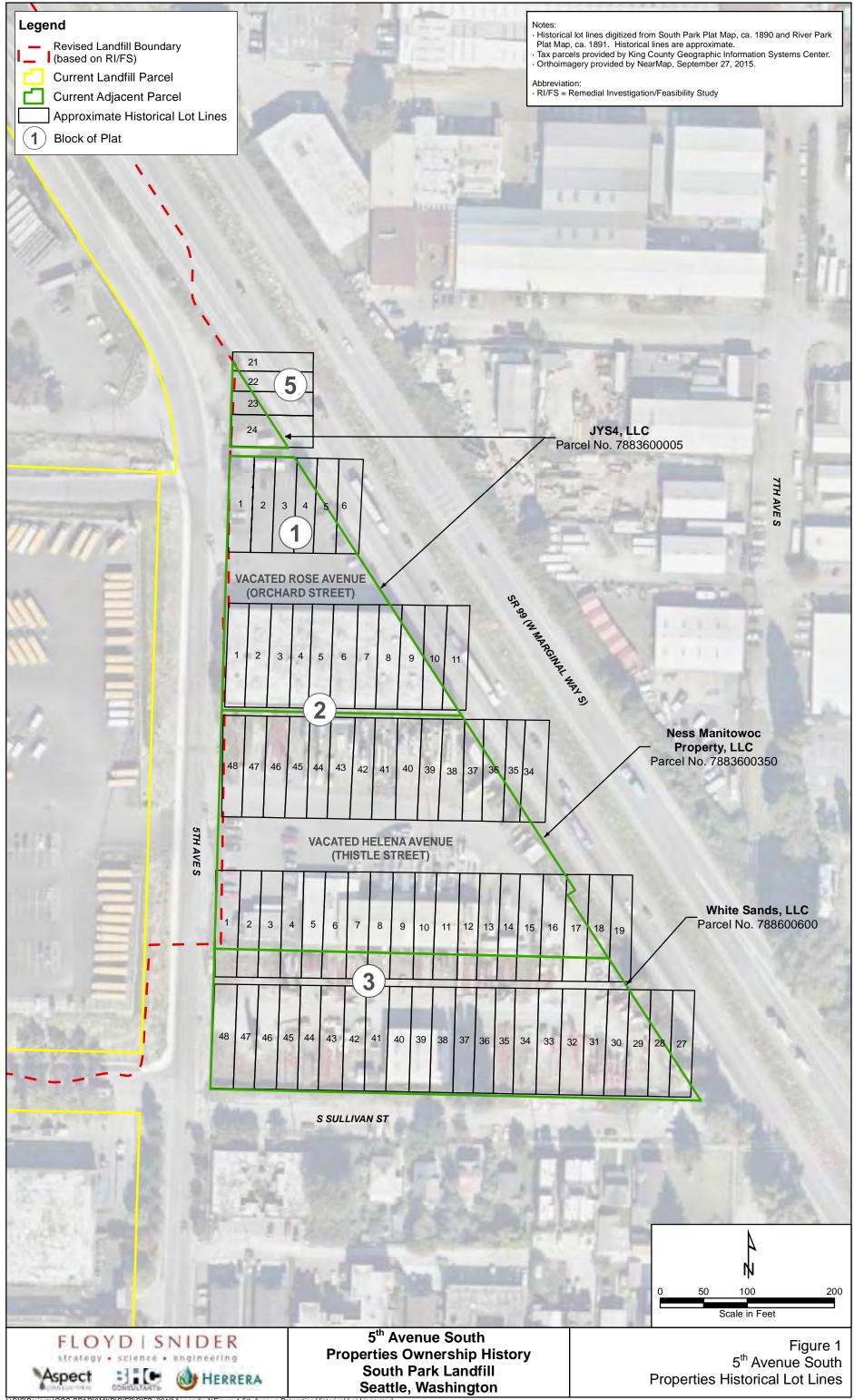
#### **ATTACHMENTS**

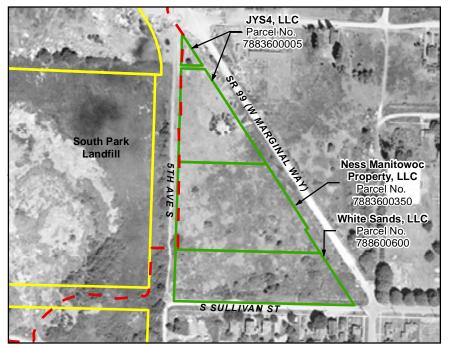
Attachment 1 Deed Abstracts

Attachment 2 Warranty Deeds and Real Estate Records

Attachment 3 Plat Maps

### Figures









1969



1963

### **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 5<sup>th</sup> 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:

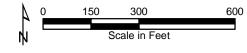
· RI/FS = Remedial Investigation/Feasibility Study



1967



1974



Aspect STEP HERRERA

5<sup>th</sup> Avenue South Properties Ownership History South Park Landfill Seattle, Washington Figure 2 Time Lapse Aerial Photographs of the 5<sup>th</sup> Avenue South Properties

# Attachment 1 Deed Abstracts

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### Attachment 2 Warranty Deeds and Real Estate Records

VOL4249 PAGE 232 533558 RECORDED Deed VOL. OF REQUEST OF Warranty 1962 MAR 7 PM 1 29 COMPAND ROBERT A HORRIS AUDITOR-" de d'ons de le 12 5395825 FH.ED for Record at Request of Statutory Statutory Warranty Deed THE GRANTOR S, CLARENCE L. WIEDERPOLD AND HAZEL N. MIEDERHOLD, his wife for and a punisionation of Ten Dollars and other valuable consideration in hand pend, conveys and warranges LING BENHAM and PARDATET DUNHAM, his wife the fulltowing Hescribed real estate, utunted in the Caumy of Washington Farcel one- (1) South fifty (50) feet of vacated Block One (1) measured along the West line lying West of West Carginal Way, and the Worth one-half of vacated Orchard Street, now Rose Street, All in South Park Addition, according to plat thereof recorded in volume is of plats, page 87, records of said county. Parcel two (2)-Lots one (1), two (2), three (3) and four (b), Block five (5), wiver Fark addition according to plat thereof recorded in volume ? of plate, page 41, records of said county. Subject to any unpaid charges for sater armished to said premises by the City of Seattle or for installation of wa er or sewer service by said city This deed is given in fulfillment of a real entate contract of sale dated March 25, 1953 and is accepted by the purchaser as such, and is subject to any texas or assessments that have accrued against said property since said date and is also subject to any liens or encustrances that may have been a on the property through the acts of the grantee. Dated this twenty-fifth -March-1953. Eleven I Wiedechold KALLS TAX PAID ON CONTRACT AFF. NO. GLARINCK L. WIEDERHOLD A. A. TREMPER, KING COUNTY THEASURER PAZEL M. WIEDERHOLD STATE OF WASHINGTON, County of Ring On this day personally appeared before me CLARENCE L. WIEDERHOLD and HAZEL M. WIEDERHALD, him wife to me known to be the individual a described in and who executed the within and foregoing instrument, and acknowledged that they algred the same as their free and voluntary act and deed, for the wes and purposes therein mentioned GIVEN under my hand and official seat this March 1953.

Pioneer-National litle Insurance Company

#### REAL ESTATE CONTRACT

WASHINGTON TITLE SINGEDIL

THIS CONTRACT, made and entered into this . 24th

believed KING DUNHAN and MARGARRY DUNHAN, his wife

havenaher called the "miler," and " HUGH S. FERGUSON CO. Inc. a Washington Corporation

denoinalist railed like "purchaser."

WITHERSTETT . That the solar series to will to the purchaser and the purchaser agrees to purchase from the soller described may estate, with the appenenances, in

The south 50 feet of vacated Block 1, assessed along the west lige, lying west of West Marries? Way and the north half of vagated Orchard Street (now Rose Street), All in South Park Addition, according to plat recorded in Volume a of Plate, page 87, in King County, Washington.

The terms and considered of this partiest are as follows: The problems price in State Thousand State, Sundred Sixty and no/100 Delian, of which

/ 9,960.00 U 2,860.00 Dellari have Two Thousand Eight Hundred Sixty and no/100 here paid, the repellet whereof is hereby acknowledged, and the balance of said purchase price shall be paid as follows:

One Hundred Twenty and no/100 or more at purchaser's option, on of historiae . 2nd and One Hundred Twenty and no/100

dry of each tourndary calender month until the belance of said of slage at purchaser's opilion, on or before the . I & C. perchasequi a shall have here fully poid. "In purchase lighter agrees to pay interest on the similaring balance of said purchase price per ges ser amount tom the 100 dry of at the range 1 24 October

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or all buth Joher place on the seller may derer in writing

Parchaser agrees to make no payments on the principal belance due on this sections wanting the year 1970; and

Purchasor further agrees to make an additional payment of \$2,000.00 on Josupry 11,

October 1, 1970 As referred to in this contract. Vale of cloning shall be ...

(1) The purchaser assumes and agrees to pay defore descripingly all tame and assessments that may as includes between a line, or said as a settler, and at the tale energy of this contract, the paychaser has assume continue or other resemblence, as east assumed payment of or aggregat to practices subject to, any takes or a real bullet, the samplest payment of the paychase subject to, any takes or a real bullet, the samplest payment of a paychase subject to.

(2) The purchaser agreed, until the corchase price is fully paid, to keep the buildings now and acceptive incured to the actual cold value thereof aminat loss of damage by both fire and windows in a company accept the selbrit beautit. As his interest may appear, and so pay all permisms therefor and an deliver all politics thesister.

should be sufficient agreed that full important of said real estate, has been made and that neither the seller nor his unique, shall be held to say regulared respecting the choldron of any influoryments thereon nor shall the purchasely or after set the saiding of chief he held to any contents of experience and extractions may necessarily an agreement the said the minimum and chief to be said to any overland or agreement the said that makes a best or this customer.

In order and absoluted being an order of this contract.

(4) The purchaser assesses all quarter of this contract.

(4) The purchaser assesses all quarter of the age to be destruction of any improvement goes on bold sent bracks or increasing plants. The contracts of the taking of half real ergs or any part of such and entate its taken for public due, the portion of the condemnations award translating after payment of real-match expenses of processing the same stall be paid to the seller and applied as payment on the purchaser for a poly all or a portion of the same stall processes of processes of processes of the seller and applied as payment on the purchaser to apply all or a portion of the seller and apply due to reduction of our instruction of the publishing or reduction of our processes of the seller and the publishing of the processes of unchanged as destruction from a polit insure assists, the processes of unchanged processes, while a post of the reasonable reported procuring the same thalf be devoted to the returnities or reduction of the publishing of such improvements, within a reasonable specific direct that said processes, shall be paid, to the other law application on the particular processes are delivered, or across to deliver within at the said policies.

St. The same has delivered, or agrees to deliver within 42 days of the date of cloung, a purchaser's policy of title insurance in standard form, or medianteent therefor, issued by Frence Norman Ethe Instant Contine, issueling the purchaser in the full amount of and purchase price sizable lags or deman by reason of delect to settern talk to said real make as of the date of thems and containing on exceptions have then the following:

is a Principal page of exceptions appearing in said policy forma-

Any neating contract or contracts under which seller is purchasing said real effect, and any manages or other obligation, which seller by this contract agrees to hay, most of which for the purpose of this puragraph (5) shall be deemed defects in seller's title.

deed to said real estate, excepting any part thereof hereafter deliger to purchaser a statutory warranty es except any that may schack after date of cloting through any pers

Ensements, restrictions and referentions of record.

(8) Uffice a different date is provided for bertin, the purchaser shall be untitled to penember of said real state on their of civiling and to retain possession so long as purchases is not to default bereinder. The purchaser covenants to keep the buildings and other improvements on said real estate is ghost repair and not to permit water and not to use, or permit the use of, the real estate for any thresh purpose. The purchaser covenants to poy of service, installation or construction, charges for matter, severe, pleasering, anything or other utility services furnished to said real estate after the date purchaser is statistic to possession.

perpose, for particular de said cas estate after the date purchaser is stabilist to possition.

(iv) In case the purchaser fails to make any payment herein provided or to maintain insurance, as berein erm, and the seller may make such payment of reflect such insurance, and any amounts to paid by the seller frequency with interest at the rate of the general term date of payment agent repaid, shall be repayable by purchaser an seller's demand, all withfast perjudic to any other right the refer may the reper table the current partition of the payment and affining the delar all the psychostral changes, and the seller and payment and affining the possession of the right shall be received to the seller at logical and delarate changes, and the seller shall be received as a major of the parthaser shall be received upon porchaser of any payment delarate.

Service upon porchaser of all demands, notities no other papers with respect to fortening and termination of purchaser, which is present to pay the payment of the payment of the parthaser and the payment of the payment of the parthaser and the payment of the payment of the payment of the parthaser and the payment of the payment of

IN WITNESS WHEREOF, the parties branto have executed this matrue ESPACE. GRALL STATE OF WASHINGTON Rink Sing Dunham and Margaret Dunham On this day personally appeared before me

to me known to be the individual is described to and who executed the within and foregoing theteriment, and accordingly that thete -55.65° itee, and voluntary act and deed, for the met, and

therein mintioned

signed the Same ga

GIVEN under my hand and official sed tiffe

Notary Public in and for the State of Washington.

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FILED for Record at Request of SECURE IN Arms I'S CO.

SEATTLE, WASH

LEVER PARTY AND AND MICHELY SHEET

60186 WW 34TTA38 OI.

Vibri for Record at Request of Pionese, Kational Title Insurance Company



or less.

THE C. YOURSELESSEE SHORMAN PRINTED IN THE R.

#### REAL ESTATE CONTRACT

For Uningroved Property

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

octween

MUGH S. FERGUSON CO., INC., a Washington corporation hereinatics called the "seller" and

TYPON M. LONG and ANNE L. LONG, his wife

hereinafter called the "purchaser,"

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

seller toe following described real estate with the apparenances, situate in Ring Washington:

County,

The agath 50 feet of the vacated block I, measured slong the west like, Eying west of West Marginal May 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

Fire of incombrances except that until June 35, 1975 seller reserves the right to continue to place fill naterial on the property connistent with the manner seller has previously followed; provided that the surface shall be ressonably graded and shall not be brough to a grade higher than 5th Ave. So, and seller shall indemnify and save purchaser narnless from all liabilities on account of such filling.

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 sames from date of this contract until the purchase price is fully paid, which testallments shall be paid on or before the first day of each month commencing the first day of Pebruary 1975, and continuing until the purchase price with interest if fully paid.

E289487

The purchaser may enter into possession January 20, 1375

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

The parchaser agrees: to pay before delisquency all taxes and autominate assumed by him, if any, and any which may, as between granter and grantee, hereafter become a tien on the premises; out to writin waster, and not to use the premises for any illegal purpose. If the purchaser that fall to pay before delinquency any such taxes or assessments, the soller may pay them, and the amounts so paid shall be derived part of the purchase price and be payabl; forthwith with interest at the tate of per cest per amount until paid, without prejudice to any other right of the seller by reason of such failure.

The purchaser assurits all risk of the taking of any part of the property for a public use, and agrees thus 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 collects title to each real estate is subject to an existing contract as contracts are less which exist, in purchasing such and extension and extension and extension and expension in a make analy payments in accordance with the terms of each and expect default, the perchases what have the right to make any payments as excesses; to receive the default, and any payments as make shall be applied to the payments near following one the solitor entered.

The seller agrees, upon hal compliance by the purchaser with his agreements berein, to execute and

delives to the purchaser a Scatutory Uncrunty deed to the property, excepting any part select may have been condemned, free of incumbrances except those above mentioned, and any that may accrue hereafter through any person other than the seller.

Pleasables agrees to Jureach a Piercer Partner Title Jesucone Company Assistant form, stochaster a little policy subject the perchaser shall have poid encourage the title to avel property with liability the name as the chart pare base series. Here from menuticarsed except any whichever measured by the perchaser or an except any whichever measured by the perchaser or an except any whichever measured by the perchaser or an except any which are measured by the perchaser or an except any which are measured by the perchaser or an except any materials.

Time is of the essence bereaf, and in the event the purchaser shall fail to comply with or perform any condition or agreement bereaf premptly at the time and in the manner berein required, the seller may elect to declare all of the purchaser's rights become terminated. Upon the termination of the purchaser's rights, all payments made bereunder, and all improvements placed upon the permises 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 forfeiters shall commence an action to procure an adjudication of the termination of the purchaser's rights bereamder, the purchaser agrees to pay the expense of searching the title for the purpose of such action, together with all costs and a reasonable anotypy's fee.

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

In Witness ti hereof the parties have signed and scaled this contract the day and year hist above written.

Bught S. Ferrunder Cor., Inc.

By (Seal)

S. (Seal)

S. (Seal)

Tyran H. Lyng (Seal)

Ache L. 165g (Seal)



STATE OF WASHINGTON	4		. 00
County of King	as.		
On this 15th day of signed, a Notary Public in and for the and every personally appeared. But to me known to be the	ugh S. Ferguson  President and	and G. J.	9.75, before me, the under- duly commissioned Colin
the corporation that executed the for	on, for the uses and purpo	see therein mentioned and	out to be the free and volum-
WITNESS my hand and efficial	2000	and year in this car-incate  ARAMA  Notary Public to and for the 5  rending of an Sag of	um)
(Aeksowiedstans	t by Corporation. Washinston.)	Die insuretes Commune Pare	n 1 331-



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eigned and earlied the same so	Let, described in and who exceeded the foregoing  calcine from and voluntary art and deed, for  field and the this and year less above unlitten.  FILED for Record at Requestable  SAFECO TITLE INS. CO.  SEATTLE, WASH.	or the case and purposes timerin mentioned.
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west of west Narginal Way and the (now Mer. Street), ALL in South Po	north mail of ve	ording to blat recorded
in Volume 4 of Plate, page 87, in	King County, Was	hington.
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Subject to encuments, restriction	and reservation	B of record.
The Deed in given in fulfillment	of that certain b	onl Estate Constact
dated Soprember 24, 1970 between	the Grantors here	in in Sellers and the
Grantees berein as the Purcharer.	71122	234 1
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Dated this 244a di	of September,	1970/2 /2
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County of King	10.10	
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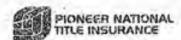
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that they argued the control described in and who executed the foregoing incrument are availed for the that they argued the control time and instrument as they are and color a not seed deed for the successful partners a thereto mentioned.

my hand and official soul this

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When y Public in and for the state of Waxbrigton,



ATICON COMPANY Filed for Record at Request of

To Suburban Lands, Inc.
245 N.W. Gilman Bivd.
Signatural Machington 9802

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DRECTOR - NE UNUS S ELECTIONS - KING CO. WH DEPUTY SCHORATION AT LECONAL OF THE PARK OF THE P

#### Quit Claim Deed

(CORPORATE FORM)

THE GRANTOR

HUGH S. PERGUSON COMPANY, a Washington Corporation

for and in consideration of

TEN DOLLARS and other valuable considerations

conveys and quit claims to

THE ELLENSWOOD CORPOPATION, a Washington corporation

the following described real essate, 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 Fest 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 reported under Auditor's File Nos. 1581145 and 2723610; Hoore's Five Acre Tracts, according to plat recorted in Volume 9 of Flats, page 28, in King County, Washington.

#### ALSO:

Lots 1, 2, 3, 4, 5 and 6, in Plock 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. 54064 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 Weshinston.

PORTER OF THIS RESIDENT ME PICE GRALLTY FOR PLIANES

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

FRAGUSON COMPANY President.

STATE OF WASHINGTON )

County of

On this 12 day of Cargary 1775 before me, the un a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared GENE J Commissioned and Phones B. ALLISON

, before me, the undersigned,

President and

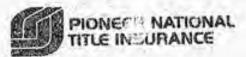
Secretary, respectively, of

to pie known to be the

the corporation that executed the foregoing informent, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and perposes therein mentioned, and on oath stated that they were authorized to execute the taid instrument and that the seal affect is the corporate seal of said

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

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



#### ATICOR COMPANY

THE SECOND AVENUE . SEATTLE WASHINGTON BOIDS . TELEPHONE BOZ 6600

#### DISCLOSURE FORM

Fing County Ordinance No. 1490 requires the following disclosure or alternative waiver form be completed prior to entry into a birding agreem at to purchase. Three copies of each disclosure or alternative waiver must be prepared. One c.py 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 nurchase, the vendor shall file the third cony with the King County Pepartment 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 ossessment of a civil populty in an arount not to exceed \$250.00 for each violation.

#### NOTICE TO PURCHASER

If there is no reasonable access to a public samitary sever system from the percel you are thinking of buying, you must install a private sever system approved or the King County Department of Health in order to huild a house or any structure which will be used for human hebitation. No building permits are issued for parcels which cannot have access to approved public or approved private sever systems. No permit will be issued for and no seption risk systems may be located on private sever systems. No permit will be issued for and no seption risk systems may be located on this parcel unless it has been subjected to a percolation test withing one year prior to application for a huilding 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 sever system. Before you enter into an appreciate to purchase this parcel, you should contact the King County Department of Health to determine the procedures for installing a private sever system.

Your ciler may have had a percolation test made on the parcel by a registered civil or antipry engineer or certificated sewaye disposal system desizeer. If so, the face 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. Py agent (Name of Agent)

engineer or cortificated sewage disporal system designer, has conducted percolation tests on

this parcel: (Legal Description)

The percolation test was conducted on (Pate) . From the tests, my agent concluded that a septic tank system could conformance with standards set by King County and in effect at the date of the test.

I supresent that the statements above are true.

Seller's Signature

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

I have no knowledge or information from which a determination can be used as to whether a septicional system may be installed on this percel, except as follows: (To be complated by seller).

I represent that the statements above are trur.

Seller's Signature Nate
BUYER'S SIGNATURE

I have read this stacement and understand its contents.

Prospective Purchaser's Signature. Date

WAIVER (IN THE ALTEPNATIVE)

I have read this disclosure form and understand its contents. I weive vendor's disclosure;

Open the condition this sale will not be closed unless this parcel is subjected to a percolation test which meets the requirements of the Finx County Department of the Megith.

aug 12 - 1975

Purchasor's Signature



### First American Title

Filed for Record at Request of

St-1 POXIDZ 90 INVE

City and State TUNASKET, WASTE TEST

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RECORDS & ELECTIONS KING COUNTY, WASH 200

#### 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 together with all after acquired title of the grantor(s) therein:

KING

State of Washington,

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.

OFFICE OF DIF COMPTSOLLER

Dated this

1200

day of

TAIDA A WPSATINT

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 acknowleged that She signed the same as her free and voluntary act and deed, for the uses and purposes therein mentioned.

CIVEN under my band and official seal this 15 day of

, 1976

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

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

STATE OF WASHINGTON,

County of KING

22337 79112804212

, sefore me, the undersigned, 16 day of JAN. a Notary Public in and for the State of Washington, duly commissioned and sworm, personally appeared HHEH 5. Ferouse N and Keirk E. Bas David BALDWIN

President and ASS 7. Secretary, respectively, of

to me known to be the President and A 55 7. Secretary, respectively, of the corporation that executed the foregoing instrument, and acknowledges the said instrument to be the free and soluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on eath stated that authorized to execute the said instrument and that the seal affixed is the corporate real of said

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

Natury Public in and for the State of Washington residing at Meecker Washington

TI.-142 R2 1/74

#### EXECUTOR'S DEED

The Grantor, Chester U. McMillin, Executor of Estates of Clarence L. Wiederhold and Hazel M. Wiederhold, deceased, for and in consideration of the distributeon of the estate of the decedents above mander conveys and quit claims to Victor W. Westlund and Earl 4. Westlands as their separate estates by inheritance, the tollowing 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 Prats, page 41
- (b) That portion of vacated Block ! South Park, according to plat thereof recorded in Volume 4 of Plats, page 87, lying westerly of West Marginel Way.

  Together with the north one-half of vacated Orchard Street (now Rose Street) adjoining said Block ! on the south, and

the south, and
Together with the South one half of vacated alley adjoining said Block I on the north; and Except the south 50 feet thereof.

TATED this is day of Many 1970.

Chester D. McMillia, Executor of Estates of Clarence L. Wiederhold and Hazel M. Viederhold doceand.

STATE OF WASHINGTON)

On this /- vary of May : 1970, before me, the undersigned, a hotary applied in and for the State of Mashington, duly commissioned and sworn, phirsonally appeared Chester D. McMillin, Executor of the Estates by Clarence L. Wiederhold and Bazel, M. Mederhold, deceased to at known to be the Individual described in and who executed the Toregoing instrument, and acknowledged to me that he signed and sealed this swid instrument as his free and voluntary at and deed for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 1 day of

Notary Public in and Park To Stack of Nashington, residing to Stack of

NO TAKE TAX MAY 1 4 1970

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### First American Title

Filed for Record at Request of

Name Vistor Western To NASKet WAS 1985-

THIS SPACE RESERVED FOR RECORDER'S USE.

#### Quit Claim Dood

THE GRANTOR LAURA J. WESTLUND

for end is consideration of Ten Dollars and other good and valuable consideration

KING

conveys and quit claims to VICTOR W. MESTLUND, as his separate estate

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

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.



Dated this

LAURA J. WESTLUND

America N

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 user and purposes therein mentioned.

GIVEN under my hand and official seal this 12 day of week ale

Lega de

. 1976

Notory Public in and for the State of Washington, residing at hearting

# The State of the S

A J30 56 11/1

ter at January, 1979

14

VICTOR W. WESTLUND and EARL A. MESTLUND, 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 bermanier called the seller, and Taxana LONG and ANNE L. LONG, husband and wife

bereinafter call-d 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 appurements, in KING County, State of Weshington: 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.

NU/100- and conditions of this contract are as follows: The purchase perce to THELVE THOUSAND NINE HINDRED & /3 12,900.00--- ) Dellars, of which TIREE THOUSAND TWO HUNDRED & NO/100---(# 3,200,00---- ) Dellar have

TWO HONDED THREE & 73/100--- (\$203.73) Dollars, or more at purchaser's option, on or before the 14th day of March . 19 29 , and TWO MUNDRED THREE & 73/100--- (\$203.73) Dollars, or more at purchaser's option, on or before the 14th day of more at purchaser's option, on or before the 14th day of each succeeding calendar month until 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 ralance of said purchase price at the race 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.

> EXCISE TAX PAID FEB 1 3 1979 F0520581

All payments to be made berounder shell be made at ar at such other place as the selice 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 taxts and assentments that may as between granter and granter attractive between a lien on taid real estate; and if by the terms of this contract the purchaser has assumed payment of any mortgage, real culture, the purchaser agrees or also assumed payment of or agreed to purchase subject to, any taxes or assessments now a lien on said culture, the purchaser agrees to pay the same before delinquency.

(2) The purchaser agrees, until the purchase poten is fully paid, to keep the buildings now and bereafter placed on said real countriesumed to the actual cash value thereof against loss or demage by both fire and windstorm in a company acceptable to the seller and for the seller, as his interest may appear, and to pay all premiums therefor and to deliver all policies and renewals thereof to

(b) The purchaser agrees that full impection of said real estate has been made and that neither the seller nor his assigns whill be held to any covernant respecting the condition of any improvements thereton are shall the purchaser or seller or the assigns of either be held to any covernant or agreement for alterations, improvements or repairs unless the covernant or agreement relief on a contained berein as in written and stracked to and made a part of this contract.

in writing and attached to and made a part of this contract.

(4) The parchaser assume all household diamage to or destruction of any improvements now on taking of state or hereafter glacing there and not the taking of shall year state or any part of said real citate too; and agrees that no such damage, destruction or taking shall considerate a taking of shall real citate in takes for positive or, the portion of the condemnation award to reasoning after payment of reasonable expresses of precision the same shall be paid to the softer and applied as payment on the purchase pass hypern unless the softer decist to allow the purchase rot apply all or a portion of such condemnation award to the releasing or restoration of any improvements diamaged by such taking. In case of diamage or destruction from a peril insured against, the proceeds of such condemnation after payment of the reasonable express of procuring the same shall be devoted to the responsible or rebuilding of such comprovements within a reasonable time, unless paymans elects that said proceeds shall be paid to the seller for application on the purchase precedency.

(1) The seller has delivered, or agrees to deliver within 15 days of the date of closing, a purchase's policy of title matriocr as maintain form, or a commitment therefor, much by Passas Names. This besides Courses, insuring the purchase's for the full amount of his purchase price against less or demage by reason of defect in seller's title to said real extate as of the date of closing and containing on storykisms other than the following:

a. Printed general exceptions appearing in said policy form;

is facing or encumbrances which by the ferms of this contract the purchaser is to assume, or as to which the conveyance hereunder o to be made subject; and

Any reliting contract or contracts under which select is porchasing said real estate, and any mortgage or other obligation, which select by this contract agrees to pay, note of which for the purpose of this paragraph (5) shall be deemed defects in seller's title

(6) If other's title to said and entain is subject to an outside contract or contracts under which sailer is purchasing said and entair, or any mortgage or other obligation, which sailer is to pay, after agrees to make said payments is accordance with the terms thereof, and upon default, the purchaser shall have the right to make any payments assumery to remove the default, and any payments so made shall be applied to the payments near falling this the soller mater 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 perchaser a statutory marriarty died to mid real totals, excepting any part thereof herealter taken for public use, from of execumbraness 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.

(6) Unless a different date is provided for herein, the purchaser shall be entitled to possession of said real estate on that of cleaning and to retain possession so long as purchaser is not in default hereunder. The purchaser coverants 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 inguing purposes. The purchaser coverants to pay all service, installation or construction charges for water, sewer, electricity, partoner or other certain services furnished to said real estate after the date purchaser is suitified to possession.
(9) In case the purchaser fails to make any payment berein provided or to maintain insurance, as forces required, the seller may make such payment or affect such insurance, and any amounts so paid by the seller, together with interest at the rate of 10% per annual therein night have by reason of such default.
(10) There is of the converse of this constant, and the recognition of such default.

might have by reason of such default.

(10) Time is of the ensence of this contrast, and it is agreed that in case the purchaser shall fall to comply with ne parliam any condition or agreement hereal or to make any payment required hereunder promptly at the time and in the manner herein required, the seller may efect to declare all the purchaser's rights hereunder terminated, and upon his doing so, all payments made by the participant becomes and all improvements placed upon the real state shall be forfeited to the seller as insidiated damages, and the seller states that it is extensive and take possession of the real states shall be forfeited to the seller as insidiated damages, and the seller datality is constructed as a waiver of any subsequent default.

Service upon purchaser of all demands, notions of other papers with respect to forfeiture and termination of purchaser's rights may be made by United States Mall, postage per-paid, noture receipt requested, directed to the purchaser at his address but known to the other (11). Upon seller's election to being suit to enforce any coverant of this contract, including suit to enforce any coverant of this contract, including suit to enforce the suit.

If the police shall being suit to procure an adjustication of the termination of the purchaser's rights hereunder, and instrument in the

If the seller shall being said to procure an adjustance of the termination of the purchaser's rights bereauder, and polarment is to entered, the purchaser agrees to pay a reasonable sum as attorney's fees and all costs and expenses in connection with such and also

included in any judgment or decree entered in such suit.  IN WITNESS WHEREIGH the parties beings have guaranted this	s of tale at the date such suit is commenced, which runs that he is instrumental as of the date fact written above
Town time Synta Long	VICTOR W MESTLAND (MAIL)
ANNE L. LONG	EARL AT WESTLIND (SZAL)
	MARCIA N. CAGLE, by Jon W. Sather, De
STATE OF WASHINGTON,	MARCIA N. CAGLE, by Jon W. Sather, as
Countral King 1" By	July Sta
On this day personally appeared before me You for	Tulling & Soul A Westler
in me known to be the infinitial Schnerihed in and who exercised	the within and torrguing instrument, and actionswindged that
therein mentioned.	tree and voluntary art and deed, for the ones and purposes
GIVEN under my hand and official and this	wid Labrery 1975
The state of the s	Los de Sarky
	Newsy Public in and for the State of Washington
7	men u Kashla





ATICOR COMPANY

Filed for Record at Request of

AFTER RECORDING MAIL TO:

PIONEER NATIONAL TITLE INSURANCE

7.19 SECOND\_AVENUE

3 63 16 1 . M. 721 191

THIS SPACE RESERVED FOR INCOMPLE I USE

1979 FEB IA HI R 30

71 44.

111

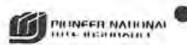
In the 26 Jay of Muchington and Jon W. SATHER during the material and personally appeared to me known to be the individual who executed the foregoing instrument as attorney in fact of MARCIA N. CAGLE therein described, and acknowledged to me that he signed and scaled the said instrument as such attorney 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 is now living.

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

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

(Acknowledgment by Attorney in Fact. Pluneer National Title forurance Co. Form 1.30)





\* CHARLEST CHARLES

faind on Become at Request of

Last a Westland

13.431 Kingsogt 71.E.

Kisk land Ung 98033

MAY 17 1983 EU721012

FORM LIST

STATES CAME.

#### Statutory Warranty Deed

THE GRANTOR S. VICTOR W. WESTLUND and EARL A. WESTLUND, each as separate estate, as to an undivided one-half interest and HARCIA 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 TYRNN LONG AND ANNE L. LONG, Husband and Wife

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

, State of

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:

Har 31 1 35 PH '83

That portion of vacated Block I, SOUTH PARK, according to the plat reworked in Volume 4 of Plats, page 87, in King County, Washington, lying Westerly of West Marginel Way: EXCEPT the South 50 feet thereof.

This deed is given in fulfillment of that certain real satate contract between the parties bereto, dated

January 10. 1879, and conditioned for the conveyance of the above described property, and the convenants 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.

Seal Datate Excise Tan was paid on this sale or stamped easupt on February 13, 1979 . Nac. No. Ed-520581

Dated this 10th day of January, 1979.

By State Of Washington, as Sather her actorney-in-fact

County of The Count

On this day personally appeared before me

to me known to be the individual - described in and who numeral the within and paragoing instrument, and acknowledged that \$1000 pigmed the same as \$1000 frot and voluntary are and deed, for the uses and purplaces therein mentioned.

GIVEN seder my hand and efficial and this

Hotory Public to and for the State of Partington, residing of

the this 26 34 A De 19 79 Section mentle mobilesqueel a Security I wide in and for the State of Wants tage on duly commissioned and morn personally appeared JUN W. SATHER to me known to be the individual who executed the foregoing instrument as attorney in fact of NARCIA S. CAGLE 8305310542 therein described, and acknowledged to me that \_\_\_\_he signed and scaled the said instrument as such attorney in fact for said principal, frees and voluntarily, for the uses and purposes therein mentioned, and on oath stated that the power of atturder authorizing the execution of this instrument has not been revoked and that the said.

MARCIA N. CALLED WITNES my hand and official seal hereto affixed the day and year in this certificate first above written. Washington .... Bothell (Acknowledgment by Astorney in Fact. Proneer National Title Insurance Co. Form L 30).



After Filing Return To<sup>2</sup>
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

1

E1662519 01/19/99

### 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

DATED		anuary	13, 1999
	7		

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

PUBLIC in and for the State of

Washington, residing at Edmonds

Print Name ANNETTE GILLLAND

My appointment expires 1/8/2001

STATE OF WASHINGTON

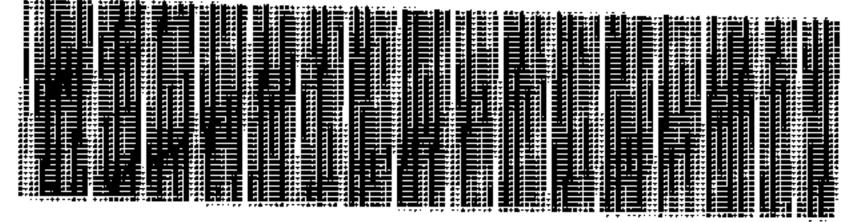
COUNTY OF KING

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

# 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 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

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

[Pristage Wotary Name Here]

PETER V. GULICK

My Commission Expires Feb. 14, 2001

Porter V. Gulica

Notary Public

My appointment expires:

2/14/01

2790G.001

PETER GULICK QCD

19991008000548
PAGE 002 OF 005
10/08/1999 10:00

12.00

### **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.

2790G.002

EXHIBIT A, Page 1 of 3 Pages



### 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

2790G.002

EXHIBIT A, Page 2 of 3 Pages



19991008000548 10/08/1999 10:00 KING COUNTY, HA

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;

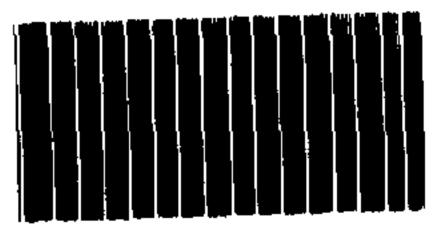
Also beginning at the northwest corner of said Government Lot 1; thence S0°39'34"W along the west line of said Government Lot, 490 feet; thence S89°23'E 112.75 feet to the true point of beginning; continuing thence S89°23'E 12.25 feet; thence north parallel to the west line of said Government Lot 46.66 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

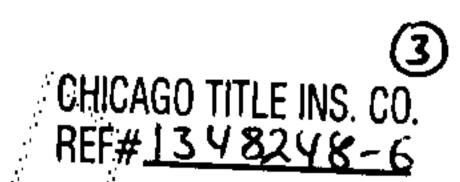
The north 2 feet of Lot 2 and all of Lots 3 and 4, Block 10, River Park Addition according to the Plat thereof recorded in Volume 7 of Plats, page 41, records of King County, Washington.

2790G.002

EXHIBIT A, Page 3 of 3 Pages



19991008000548
PAGE 005 OF 005
10/08/1999 10:00
KING COUNTY, WA



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



E2578094

12/07/2012 14:40

KING COUNTY, WA
TAX
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

Forme S. Faust

Dated: DECEMBER 3, 2012

TYTANIC LLC

ANNE L. FAUST FORMERLY KNOWN AS

ANNE L. LONG

ANNE L. LONG, CO-MANAGER

-KATHLEEN-M: SMITH, CO-MANAGER

KATHLEEN M. SMITH

KATHLEEN M. LONG FORMERLY KNOWN

9LPB15 12/2009 KMS

ss Meicepa COUNTY OF STATE OF ARIZONA i Certify that I know or have satisfactory evidence that anne L. Hong 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. CATHY MORENO Notary Public—Arizona Maricopa County Expires 08/06/2013 NOTARY SIGNATURE PRINTED NAME: NOTARY PUBLIC IN AND FOR THE STATE OF ARIZONA RESIDING AT 1412 E Wesleyan Dr. Tempe Az 85282 MY APPOINTMENT EXPIRES STATE OF WASHINGTON COUNTY OF KING I CERTIFY THAT I KNOW OR HAVE SATISFACTORY EVIDENCE THAT KATHLEEN M. SHITH 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: NOTARY SIGNATURE PRINTED NAME: NOTARY PUBLIC IN AND FOR THE STATE OF WASHINGTON RESIDING AT MY APPOINTMENT EXPIRES

#### CHICAGO TITLE COMPANY

EXHIBIT A Escrow No.: 1348248

SUBJECT TO:

RECORDED:

RECORDING NUMBER:

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

IN FAVOR OF: MUNICIPALITY OF METROPOLITAN

SEATTLE SEATTLE

PURPOSE: CONSTRUCTION, OPERATION,

MAINTENANCE, REPAIR AND REPLACEMENT OF A SEWER INTERCEPTOR PIPELINE

AREA AFFECTED: 💮 💮 🦿 🦿 A NORTHEASTERLY PORTION OF SAID

PREMISES

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

JANUARY 30, 1989

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:

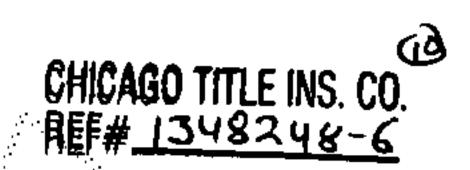
ENTERED: DECEMBER 10, 1957

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

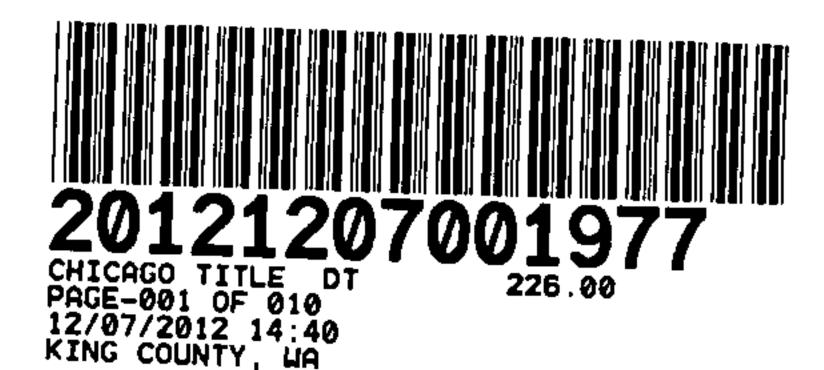


This instrument prepared by and after recording return to:

Aaron D Walley
U.S. BANK N.A.

COLLATERAL DEPARTMENT
P. O. BOX 5308

PORTLAND OR 97228-5308



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 Benefic	iary
U.S. BANK TRUST COMPANY N	. <del>-</del>
Legal Description: Ptn of Lots 22-24, B1	k 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: 78836	
Reference Number of documents assigned or relea	sed: NOT APPLICABLE
	ment and Assignment of Rents and Leases (Including Fixture Filing
	st ") is made and entered into by the undersigned borrower(s)
	lectively the "Grantor") in favor of U.S. BANK TRUST
COMPANY, N.A. havin	g a mailing address at 555 SW OAK, PORTLAND, OR
97204 , navin	
	(the <b>"Trust</b> ee"), for the benefit o
U.S. BANK N.A.	(the <b>'Beneficiary"</b> ), as of the date set forth below
ABTICLE L'OONVEY	ANCE MORTOACED PROPERTY

#### 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 Page 1 of 9

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' me	ans all loans t	by the Benefic			nans evidenced	by a note or notes dated
12/07/12				ing mose ic		al principal amount(s) of
\$1,400,000.00					<u> </u>	
and any extensions, renerelating thereto (the "Note duties to the Beneficiary, absolute or contingent, we relating to any of the foregoed of Trust, and attor-	"); and also mether now hich arise out out of the country of the c	neans all the Control or hereafter of the Loaning, without limited	Grantor's debe existing or incoments, ditation, costs	ts, liabilities curred, whe and princip and expen	, obligations, co ether liquidated al, interest, fees ses of collection	venants, warranties, and or unliquidated, whether , expenses and charges and enforcement of this

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

Obligations are as described in the documents creating the indebtedness secured hereby.

- 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 1714DWA

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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 tenantable 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 thiny (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 on 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 appraisement 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.

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- 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 1714DWA Page 4 of 9

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 1714DWA

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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 "Trustees" 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 it's stead, shall have, in it's 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

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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

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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.

INI MATRICOO MUCCOCOE Aborrodos	signed has/have executed this Deed of Trust as of DECEMBER 7, 2012
	signed has/have executed this Deed of Husi as of DECEMBER 7, 2012
(Individual Grantor)	(Individual Grantor)
(intervioled Crains)	
Printed Name N/A	Printed Name N/A
JYS4, LLC	
Grantor Name (Organization)	
a Washington limited liabi	lity company
By Dum Duly	
	ging Member
By	
NICOSO COST LITIS	
rvaine and ride	
Name and Title	
(Grantor Address)	
(Grantor Address) 1845 72nd Avenue SE	
(Grantor Address)	
(Grantor Address) 1845 72nd Avenue SE	

[NOTARIZATION(S) ON NEXT PAGE]

### Acknowledgment in Individual Capacity

STATE OF	)	
COUNTY OF	ss.	
The state of the s	<del></del> )	
I certify that I know or have satisfa	actory evidence that	N/A
		[Name(s) of Person(s)]
is/are the person(s) who appea	ared before me, and said p	erson(s) acknowledged that he/she/they signed this
instrument and acknowledged it t	o be his/her/their free and vo	luntary act for the uses and purposes mentioned in the
instrument		
Dated:		
منابعة المنابعة المن		
(Seal or Stamp)		
	Printed Nam	a:
	Title:	
		ent expires:
$S^{(2)}_{t_{2}}$	wy apponin	and a series of the series of
	Acknowledgment in Repre	sentative Canacity
Α	Acknowledgment in hepro	semanyo Capacity
STATE OF	)	
COUNTY OF W.	SS.	
	<u>_</u> )	
I certify that I know or have satisfa	ctory evidence that <u>Demeta</u>	e H Pallis
		[Name(s) of Person(s)]
is/are the person(s) who appea	red before me, and said pe	erson(s) acknowledged that he/she/they signed this
· · · · · · · · · · · · · · · · · · ·		ed to execute the instrument and acknowledged it as
the Managing Member		
of med and	(Type of authority, e.g., ο	(icer, trustee, etc)
of <u>JYS4, LLC</u>	(Name of party on behalf of whom	nstrument was executed)
to be the free and voluntary act of	such party for the uses and p	urposes mentioned in the instrument.
Dated: 12/5		
Daled AN	Things.	
EAR CON E		
(Seal or Stamp)		- Alled
	Printed Name	Sheller M. Hiderson
	Title: S	aron Oddoicou
1/4 ON 1/4 9-25-1		ent expires:
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White OF WAS	innin's	

1714DWA

Page 9 of 9

# 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

# Electronically Recorded 20150225001894

**ASNR** 

SIMPLIFILE
Page 001 of 009
02/25/2015 03:00
King County, WA

80.00

### **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 25 day of February, 2015, by JYS4, LLC, a Washington limited liability company (herein called the "Assignor"), whose mailing address is 1845 72<sup>nd</sup> 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 <u>Exhibit A</u> 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

Recorded at the request of FIDELITY NATIONAL TITLE MAJOR ACCOUNTS

· 1 -

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.

- 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.
- Representations. Assignor represents and warrants that it is now the 4. 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.
- Present Assignment. This Assignment shall constitute a perfected, absolute 5. 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.

### Remedies.

ь. (а) 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.

- Assignee shall have all other rights and remedies available at law or (b) 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.
- 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.
- 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. The tenants under the Leases are hereby <u>Authorization to Tenant.</u> 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.
- 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".
- 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. <u>Successors and Assigns</u>. 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. <u>Validity Clause</u>. 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.
- 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.
- 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. <u>Perfection</u>. 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:** 

JY\$4, LLC,

a Washington limited liability company

Demetre H. Pallis

lts: Manager

STATE OF WASHINGTON

**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 2015.

(Signature of Notary)

(Legibly Print or stamp name of Notary)
NOTARY PUBLIC in and for the State

of Washington

My Appointment Expires:

### **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.



NG COUNTY, WA

When Recorded, Mai 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 Nicollett 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 Nicollett 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 Tust Company, National Association

Tracy Kraus, Assistant Commercial Officer

State of OREGON

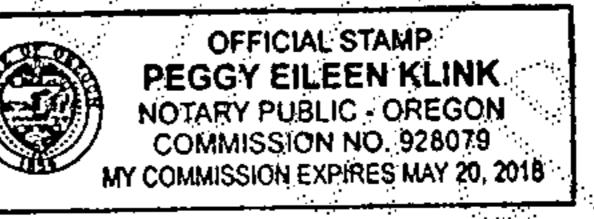
County of Multnomah

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.

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



to any five accounts	as Sheriff of King County, State of Washington,
party of the first part, and John Mucklestone	as shell it and condy, state of flattington,
	Careamar made and a manager an
the part y of the second part:	
WITNESSETH, That, whereas, by virtue of a writ o	f execution issued out of and under the seal of the
Superior Court of King County, State of Washington, ho	ding ferms at Scattle, dated the 13th
day of February, 1963, sex	upon a judgment recovered in said Court on the
13th day of February, 1963,	, 133x, in favor of the plaintiff and against
the defendant 5 , in Cause No. 596147 of said Court,	atitled
General Electric Credit Corporation, Pl and the marital community composed of D and Hugh Neideffer and Jame Doe Neideff Company, a partnership, Defendants,	ale K. Adams and Diane E. Adams,
to the Sheriff of King Canaty, Washington, directed and take into execution the personal property of saidballe K	
of Pole E. Adams and Diane E. Adams,	
found, then to make the amount of said judgment, interes-	d and increased interest, costs and increased costs.
and of real property of said defendants	igner exempt.
by law, and after diligent search and inquiry said Sheri	I was mable to find any personal property of said
defendanta	and thereupon said Sheriff by virtue of said writ of
essention duly beyord upon and sold, pursuant to due on	d begal notice of sale tied given, at public metion
on the 5th day of April, 1963,	. between the lours of 2 o'clock in the
morning and 4 websek in the aftermion of that day to	wif :- at the hour of ten o'clock A. M.
in fract of the Kung County Court Bouse door, in the	City of Scattle, King County, State of Washington,
all the lands and promises bereinafter described at who add to. John l'ucklestone	ch sale said lands and prensises were struck off and
for the sum of Fifty and no/100 (350,00) landal memory of the United States of America le.	
being the highest and lest sum hid therefor. And said S	
sum of money or bull gave to suit John Eucklestone	The state of the s
meli certificate of purchase as is required by law in he gi	
	Anril, 1963,
Superior Court, by an order duly mode and entered of e	

NOW THEREFORE, The said party of the dest 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 management Donald R. Sprinkle, the then Sheriff, as aforesaid, by said purchaser ...... at said sale has granted, bargained, gold, 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 living 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 forwarly Orchard Street adjoining, South Park, according to plat recorded in volume h of plats, page 87, in King County, Washington; EXCEPT portion conveyed to State of Washington by deed recorded under auditor's file No. 1852619; and EXCEPT the east 70 feet of the north 91 feet thereof;

together with all and singular the tenements, hereditaneous and apportenances therete belonging

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

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

Signed, Sealed and Delivered in prescuce of

Sheriff of King County, State of Washington.

### State of Mashington, as.

Given under my hand and official scal this ... lith day of ... April, 1964. ...

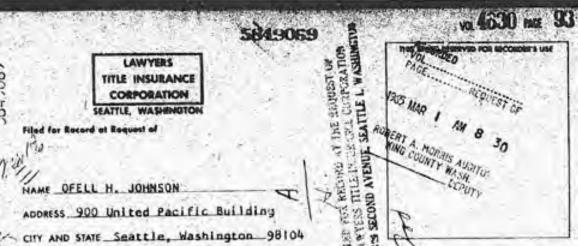


Deputy County Anditor for King County, Washington, residing at Seattle.









0000

QHJ: brm

#### Quit Claim Deed

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

for and in consideration of to clear title

to ALBERT HUGHES and IVA HUGHES, his wife, and quit claim's conveys.

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 I 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 files of record as King County Auditor's File No. 5/19710 and in subse-quently recorded documents.

Onted this

O SALES YA REQUIRED ALE No 1:581345 FEB 2 5 1965

February 1905.

STATE OF WASHINGTON

County of KING

On this

day of February 1965

, before me, the undersigned,

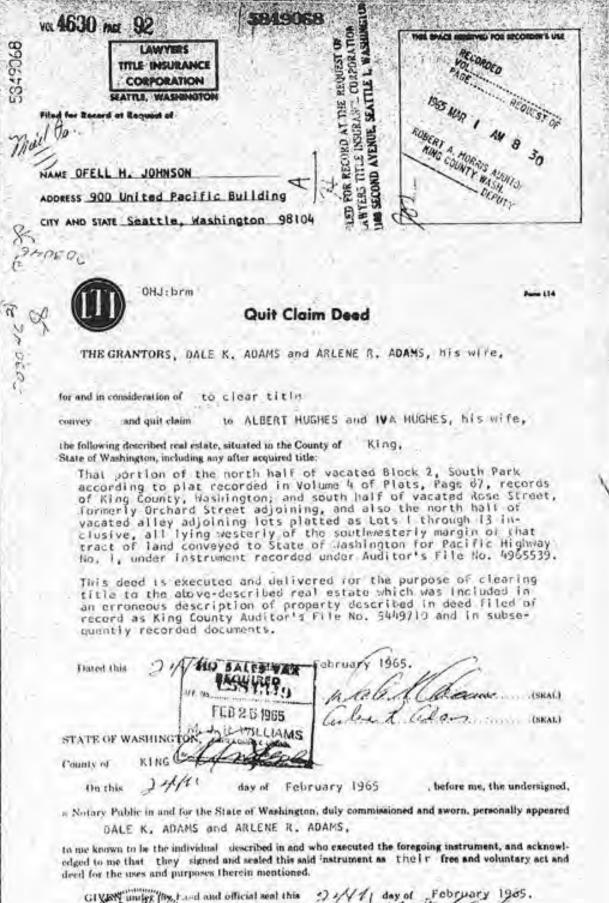
a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared DIANE E. ADAMS,

to me knows to be the individual described in and who executed the foregoing instrument, and acknowledged to me that Size signed and scoled this said instrument as hor free and voluntary act and deed for the passand purposes therein mentioned.

23/Ya day of Rebruacy 19,55.

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

VEN mela any hand and official seal this



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

LAWYERS TITLE INSURANCE CORPORATION SEATTLE, WASHINGTON

4 .

11:00 NAME OFELL H. JOHNSON

Appeals 900 United Pacific Building

CITY AND STATE Seattle, Washington 98104

LAWYERS TITLE INSURAN COMPOSATOR UND SECOND AVENUE, SCATTLE L, WASHING





OHJ:brm

#### Quit Claim Deed

5849067

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 haif of va-cated alley adjoining lots platted as Lots I 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

REQUIRED MEE. 16501347 FEB 2 5 1965

February 1965

WILLIAMS

County of

On this

PUBLIC d

day of February 1965

, before me, the undersigned,

a Notary Public in and for the State of Washington, duly commissioned and aworn, 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 scaled this said instrument as the ir free and voluntary act and

deed for ply uses and purposes therein mentioned. F.HOTA.S.

day of February 1965.

neigh Natary Public in and for the State of Washington, residing at Smattle.

#### LAWYYERS TITLE INSURANCE CORPORATION SEATTLE, WASHONITON

中国的国际企业中国的中心。1911年中国的国际企业中国的国际企业中国的国际企业中国的国际企业的企业。

filed for Record at Request of

ADDRESS CITY AND STATE SLATTLE





OHJ: brm

Statutory Warranty Deed

5833099



FIFTY CENTS

THE GRANTOR S, ALBERT HUGHES and TVA F. HUGHES, DIS

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

CLEM Lavoy and OPA! Lavoy, his wife, and SAFE in hand paid, conveys and warrants to the following described real estate, situated in the County of King W'ashington

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 helf of vacated Rosn Street, formarly Orchard Street adjoining, and also the north half of vacated alley adjoining iots platted as Lots | through 13 inclusive, all lying wasterly 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 dead to the State of Washington, recorded November 14, 1958 under Auditor's File No. 4965539



BALES TAX LIEN PAND

Danal ting

Harch 1965 day of

MAR 10 1905

STATE OF WASHINGTON COLLEGE YFF, NO.

County of 1185 On that

de of March 1965

ombrosigned, a Notary Public in and for the State of Washington, duly commissioned and 5% rn, personally ALBERT HUGHES and IVA F. HUGHES,

to use known to be the individuals described in and who executed the foregoing instrument, and telepowledged to me that they signed and sealed this and instrument as the I r free and voluntary act and dood for the mes aphympase, therein mentioned

CAPHN under the form and utilized seal this

day of March 1965.

Notary Public in and for the State of Washington, midnig at Scattle.

for and in consideration of

No consideration

conveys and quit claims to

PATRICIA G. DAVIS

the following described real entate, situated in the County of Kit'g

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 Occuard 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.

MOUSELES TAX JUN 1\_0 1966

(SPAT)

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.

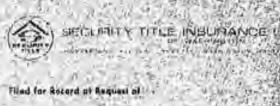
GIVEN under my hand and official seal this

stary Public in and for the State of Washington, ding at Seattle.

No. 19656

#### TREASURER'S DEED

STATE OF WASHINGTON		
County of King		-
THIS INDENTURS, Made the	day of October	
	as treasurer of King County	
of the first port, and RUBY M. NEWY		, state of warnington, the part
party of the second part	o. Seattle, Washir	NET DE
party of the actions part	The second second second	
WITNESSETH, That whereas, at a public is		
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sioners of the County of King, State of Washin,		
notice of the time, the place and terms of said in		
of County Commissioners, and the laws of the	State of Washington, and for a	and in consideration of the sur
of The Property The TARY AND	34 100 (\$51.0	DOLLARS
lawful money of the United States of America,	to me in hand paid, the rece	ipr whereof is hereby acknowl
edged, I have this day sold to	TENTON, DOSESSON T	n interest of
the following described real estate, and which	said real estate is the property	of King County, and which i
particularly described as follows, to-wet		-
Vaccor of the same of	alie vie 5, 52, 52	
		* C. ALSO
The state of the s	4	
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	lested treet and a	ligs bally lite.
January Comment of the Comment of th	manual light day - 1100F	-
- Contract Contract		
-		
the said - SUBY S. DESTON, Sunces	oor in Interest or	being the highest and
best bidder at said sale, and the said sum being t		
NOW, THEREFORE, know we that I.		
said County of King, State of Washington, in co-	anderston of the memices on	. County Treasurer of
the State of Washington, in such cases made and	d remaided do horster most a	a by tirrue of the natures of
RULY A. NEWYON, AUC-	- heirs and assume forms	the said and area to
before described, as fully and completely as the	and north of the feet nort o	on he comment at at
convey the same.	and board of our last back of	in by thrine of the premises
Given under my hand and the seal of office	this 21:0 day of	1 October
A.D. 19	and of	· MARKET
Partition and I	2MADR.V	VILLIAMS
ACT AND VAL		Ounts Separates
1/8/12/19	By Mulos	Mulle
		- nation
5 C - 1 1		



HAIL TO:

ADDRESS ESCROY 0 12 1/29 CF RS

SECURITY TITLE INS CO. SEATTLE WASH.

STATISTORY



THE OBANTOR - CLEM LAVOY and OPAL LAVOY, his wife, and SAYS "VESTIGAT CO.", a composition

ARRIAN MARIN

for and in commission of for Dotlars and other good and valuable consideration

in hand paid contry and warrant in ROBY H. NEWTON , a in the larger ment

to finance the following described real cathie, attached in the family of King-Segre, of Washington

Vacated Lots 31 b 36, inclusive, together with north half of vacated street ad binner to treether with the south half of vacated alley adjoining all in vacated look 2 the vacated lote 1 to 21 inclusive, two ther with south half of vacated alley a binner of the standard block 3, bin south fark, according to that the vacated block 3, bin south fark, according to that the south in block 3 to 1 late the south of the County, Manniston; the limit oction conveyed for street acrosses by instrument recorded binder with the content conveyed for street acrosses by instrument recorded binder with the content for active givel far under him countrions from Court and the first action of the following described farcel for ying the first action of the frame marginal far under him countries they will be read to the content of the content of the first marginal far and 5 feet solutive starly, when the first action of the first marginal far and 5 feet solutive starly, when some actions the sector of the content of the solution of the first page 57. In this countries are the sector of the sector of

treation reserves in assemble over said vacated bots 11 turough 15, noticities, to vacated Piece 2 of Sort; said that she south half of the idented wiley adjoining to someof with arein over seid land by some stime with rean piper but extending connection over the morth line of said land into land of joining or he north award by the spantars, them Lavay and Opel Livey, and wite and the land of lavay and open Livey, and wite and the land of lavay and open livey and wite and the lavay and open livey.

Recorder's Note: Parts of instrument not dark enough for iderofilm.

Legal description attached.

SUBJECT TO: Leave recorded under According No. 5335584; Relinquishment of all unisting, futers or potential essements for access, light, view and air, and all rights of ingreas, egress and regress to, from and between said premises and the highway or highways to be constructed on loads condensed by proceedings under King County Supertor Court Mause No. 515467 to State of Washington; and, Relinquishment of all existing, future or potential essements for access, light, view and six, and all rights of ingreas, egress and regress to, from and between said premises and the highway or highways to be constructed on lands conveyed by Deed recorded under Secording No. 5320164 to The State of Mashington.

day of January, 1973 / Military N. CHELE

Saca Investment Co.	on Buckey ?	Harata W. Cagar	They (SEAL)
of despect wisheston	Sec -	Ches lavoy Var	
Che dia	day of withouse 1712		, before me, the
undersigned, a Notary Publ Clear Lavoy and t	50%   1607   5040   1506   2 70 4 700	hingma, duly commissioned at	d sworn, personally appeared
uses and purposes therein	suffer the said instruction	their fee and	ment, and declarated to me voluntary by the
GIVEN under my hand		Notary Public in and for residing at 304 142	e the blade of Washington,

The 3, 27

Dated this

The 2 1/64

IN THE RESIDENCE OF THE RESIDENCE OF THE PROPERTY OF THE PERSON OF THE P

	(4)
STATE OF VASHINGTON	120000
many of Kov6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
On this 17 day of Aug. 1882 bet Town 1972 bet Town 100 1972 her with a set for Marcia R. Cagle and declarate in fact for Marcia Recordery at and declarate as attended in fact for Marcia the days and proposes therein transformed, and on eath stated that the post execution of this paramonal has not been resolved and thus the said Marcia.	to that he signed and scaled to N. Cagla
is note living, and is not misting.	
(irren under my hand and official west the day and year last above written.	
Souther, tradely in med for the State of Investingtion, reciding at	Juite , was
South, Public of the Property of the State o	annes de secte de la companya de la
The Indian Security I the management Company of Machineses in ACKNOWLE COMPANY - AT	
STATE OF TASHERGION,	(A)
County ofA	(Int)
On this 19 day of Takers:	A. D., 1932
before me personally appeared Ofell IL Johnson Ass 164 10	to me known
to be the President non remember Historical,	of the corporation that
executed the within and foregoing instrument, and acknowledged the said instru- untary act and deed of said corporation for the uses and surposes herein mer- tage. The z wife authorized to execute said instrument.	sent to oc the tice and sor.
IN UITNESS WHEREOF, I have besence not my band and affixed my official new	d the day of the Presiphore
without	/ INTO
(letter 1)	Such ?
	( ) X
Notary Public in and for the State of Bashington residing at	THE SUD 9 W

Security 7 life Interiors Company of Washington - ACKNOWLEDGMENT - CORPORATION

SE RECONDED

REDUEST OF

Filed for Rocare 1914 JAH 10 MM B 00

NAME

ADDRESS

FILED for Record at Reque

CITY AND STATE

SAFECO TITLE 193. CO. SEATTLE, WASH.

SECURITY TITLE INS CO. SEATTLE, WASH.

STATUTORY

POTT FEB IF W A DO

HARCIA E. CACLE, formerly MARCIA E. SATHER, as her separate estate, the CHANTOR CLESS LOVOY and OPAL LAWOY, his wife, and SAFE INVESTMENT CO., a corporal ton

for and in consideration of Ten Bollars and other good and valuable consideration

en hand paid, conveys and wanters in RUBY M, NEWYON , a 12-14 14-15.

as Genere, the following described real vante, sinus 1 in the County of State of Mashington

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 odjoining all in vacated Block 3, ALL in South Park, according to plat recorded in Volume 4 of Plats, page 67, records of King County, Washing EXCEPT that portion conveyed for street purposes by instrument recorded to Auditor's File No. 3186886, and EXCEPT portion taken for West Marginal Way under King County Superi Cause No. 515467, and OFFICE OF THE COMPTROLLER EXCEPT the south 31 feet of said lots 17 to 21, inclusive, and EXCEPT the North half of vacated alley adjoining said vacated Block 1; Aurious EXCEPT those portions thereof lying within West Marginal Way; and | sy EXCEPT that portion thereof condenned by the State of Washington for Ity 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. 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.

Crnotor 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 morth 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.

Legal description attached,

SUBJECT TO: Leare recorded under Recording No. 5336584; Reliagnishment of all existing, future or potential essements for secess, light, vie; and air, and all tights of ingress, egress and regress to, from and between said precises and the highway or highways to be constructed on lands condemned by priceedings under King County Superior Court Cause No. 515467 to State of Washington; and, Relinquishment of all existing, future or potential essements for access, light, view and sir, and all rights of ingress, egress and regress to, from and between said precises and the nighway or highways to be constructed on lands conveyed by Seed recorded under Recording No. 5320164 to the Easte of Washington.

Dared this	17th	du of Januar	ry. 1973 . /.:	WAN CHELE
Stee Leventment Co	ALS SELECTIONS	The state of	cla H. Coule	Hadrin IPARIS
State Lat B.M. Hardy Survey Same	Piecu.	Cle	a LaVoy	SEAL
w. short at Avenue to	N .	- Sign	Lavoy	<del></del>
the share	day of a Fernance	WAX A	V	, before me, the
1 14	200		ly commissioned and	sworn, personally appeared
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uses and purposes there		10	7	Alexa St.
GIVEN mater my har	a feet and interest into	Cry level	dain & Co	
	1	Note		the Slah of Washington, t
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STATE OF TASHINGTON	101100
County of Area }	
the thirs of Jayout Adapted 1, 1973, he had not been and acknowledged for the same as his free and columnay per and deed as athorney in fact for the same as his free and columnay per and deed as athorney in fact for the past of the trees and proposes therein mentioned, and on eath stand that the past execution of this instrument has not been revoked and that the said. MACCLE is one laying and is not means.	me that he signed and scaled etc. N., Cog.le
(Seal)	Paramet 1
Nature Problem or and for the State of Washington, or reding of	
TE-15 1/02 Secure, File histories for para of Pashington - ACKNOWLETHAR OF - A	TIORNEY IN FACT
1). " "	
STATE OF WASHINGTON.	
Consty of & Costs }	
On this 19 day of Javesty before me personally appeared Chall H. Johnson - Jon H.	A. D., 1975
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to be the 100,000 Mee MECCION, and acknowledged the said instrument, and acknowledged the said instrument.	ment to be the face and and.
that _I he z f authorized to execute said instrument.	The same of the sa
IN WITNESS TUBEFOR. I have bereasto not my hand and affixed my official 5	est the day for the support
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Natury Public in and for the State of Washington residing as Mi	1708 Cur 9 mm
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76-35-1144

Security Title Insurance Company of Sachington - ACKNONLEDGMENT - CORPORATION

re record 311628 REAL ESTATE CONTRACT .... \* Promeer National Title Insurance Company CORPORATE SOME Recorded Grafi WASHINGTON TITLE DIVISION Brigge And. 18 TION INDIA 632083

THIS CONTRACT, made and entered into this 12th der at August 1971

between O.N.C MOYOR PREIGHT SYSTEM, a California corporation,

brichaster colled the "seler," and RUBY M. NEWTON, a widow,

hereleafter called the "constance."

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

See legal description hereto attached and by this reference incorporated herein

d

273-65

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31102

al

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 j Dellies, of which Twenty-Five Thousand and no/100----- (# 25,000.00 ) Debm ber been paid, the exceipt whereof is hemby acknowledged, and the balance of said purchase price shall be paid as follows: Pive Hundred Dollars ----9 Dellin ----- @500.00 er more at purchaser's option, on or before the 1st ay & September . 10 71. ad Five Hundred Dollars ------ # 500.00 Deline. 1st or more at purchastr's optica, as or before the day of such memoring calendar month netil the belance of said purchase price shall have been fully pole. The purchaser further agrees to pay balanted on the eliminables balance of said purchase price at the rate of Seven (7) per erat per annum from the 1st dy of August which introct shall be distincted from each installment payment and the halence 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

NO BALES TAX As referred to hamp man 2564 96 a ab August 1, 1971

(1) The purchase ADD controls to pay before delinquency all tases and assessments that user as being earlier between a log on cold real-order; and I by the terms of this contract the purchase, has assumed present of the purchase subject to, any trace or assessment of the purchase subject to, any trace or assessment of the purchase subject to any trace or assessment of the purchase subject to any trace or assessment to the purchase subject to any trace or assessment to the purchase subject to be purchased contract or at a light of the contract or at a light of the contract or at a light of the contract of the cont

(3) The purchaser agrees that full importion of said real estate has been made and that neither the setter nor the entire into any content's remodified the condition of any improvements therein not shall the purchaser or setter or the autient of either he may constant to not to allow the interiors, improvements or results unless the constant or account paint on it contained herein overcome and advances to our loss the purchase of the autients of the purchaser and advances to our loss the purchaser.

in writing and a common at an interest of print of the matter?

All the particular accounts of the last of the fact in at distriction of tay improvements again on said and order on the matter plant, because, and of the particular and of the confidence, destruction of the facilities of ablieve of confidence in the case any part of and state in taken for public way, the position of the condemnation and terminals after a confidence in a case any part of and state in taken for public way, the position of the condemnation and terminals after a confidence of probabilities and the public transmitted and the confidence of the public of a confidence of such confidence and applied as payment on the purpose probabilities of probabilities and the public of the confidence of the confidenc

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And the common of the control of the

The transaction of the state of A CONTRACTOR OF THE CONTRACTOR a new loan within their tales to publicant, and every management in the abilities of the financial section of the sectio

#### See logal description hereto attached

(8) Unless a directed data in proceedings for the particle of the processing as long as procedure to the processing as long as procedure to the particle of th

reight have by maken of such default.

(10) Time is of the success of this contract, and it is agreed that in case the purchaser shall in? 's comply with or perform any condition or agreement bereaf or to trake any payment required heremaker promptly at the time and in the cannow brech required, the selfer may clean to declare all the purchaser's rights heremaker promptly at the time and in the cannow brech required, the selfer may clean to declare all the purchaser's rights heremaker terminated, and upon his delay so, all payments made by the prochaser heremaker, and all improvements planed upon the real cases shall be inclicited to the selfer as logislated damages, and the selfer always to over-steer and all improvements planed upon the real cases shall be inclicated at a waiver of any value posts default.

Service upon purchaser of all demands, notices or other papers with respect to forfeiture and termination or post-shall postingly per-paid, return receipt requested, directed to the purchaser at his addition but known in the order.

(11) Upon selfer's election to being self to enforce any covariant of this contract, lockeding salf to collect any payment required homeomorphisms shall be included in any judgment or decree entered in such salf.

If the publicates agrees to pay a reasonable sum as attorney's less and all costs and expenses in connection with noch salf, and rike misconable cost of payment agrees to pay a reasonable sum as attorney's less and all costs and expenses in connection with noch salf, and rike the reasonable cost of payment or decree entered in such salf.

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

			C MOTOR FREIG	
		Ву	David P. Rous	h Back
STATE OF WASHINGTON,	1.	P	y 39 3	swlor seadery
County of Santa Clara	5-			
On this 12th	day of 7	Nugust		971 , personally appeared
David P. Roush		and	Burdena	Cook
to me known to be the		President and		*Secretary, respectively, of
the corporation that executed 'be act and deed of said corporation, I authorized to execute the said last	for the mes and po	proces therein men	tioned, and on oath stat	ed that
In Witness Whereof, I have				
1000	OFFICIAL SEA	-	Varia m.	Demon
The same of the	TARY PUBLIC-CALIF	OFFIE NO	otary Public in and for ciding at	***************************************
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#### LEGAL DESCRIPTION RIDER TO U-N-C MOTOR FREIGHT SYSTEM-RUBY H. NEWTON CONTRACT

The South 2000 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 426.07 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; thence South 2°01'26° West to the true point of beginning; thence

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.A.C Motor Preight System presumed from the application which refers to it as the owner of said premises.

-- END OF LEGAL DESCRIPTION --

#### Balloom 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 halloon cash-out payment at the end of said seven years, six wouths 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 sellor 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 and wishes to purchase said "hight-of-first-Relead Froperty" 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 offerer 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 seriod.

#### 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 --

74041000723

#### LEGAL DESCRIPTION OF "RIGHT-OF-FIRST-REFUSAL PROPERTY"

That portion of Government Lot 16, Section 29, Township 24 North, Range 4 tast, 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\*08'45" 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\*01'25" 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 21, 1958, under King County Auditor's File No. 4957813.

#### 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.

#### 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. 00032

REQUEST OF

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



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E COMPANY

LUSE

Filed for Record at Request of

NAME Tyrnn M. Long ADDRESS 8726 So. 113 St. CITY AND STATE SEATTLE Wa. 98178

> WARRANTY THEFTELMENT DEED



32 8

THE GRANTOR Siem to Voy and Good Ly Voy, him wife, and Safe Investment Commany

for and in consideration of Thirty Pive Thousand and nO/100 Bollers

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 purties of the North Half of excated Block 2, South Park, according to the plat recorded in Volume 4 of Plats, Page 87, in King County, Washington; and South half of washed Rose Street, formerly Orchard Street adjoining, and wise the North Half of washed alley adjoining Lots clutted as Lots 1 through 13, inclusive, all lying westerly of the southwesterly margin of that Tract of Land conveyed to State of Machington for Pacific State Highway No. 1, under instrument recorded under juditor's File No. 4965539, Records of King County, Washington.

This Deed is subject to encombrance; and exceptions stated in Pinneer National Insurance Company report No. A-260779 Re: La Voy-5-fe Investment Company / Long This deed in Voy in Marking Insurance of the state contract between the number before dated.

This deed is the investment for the conveyance of the above described property, and the coverants of warranty begins to

rg ----; and conditioned for the conveyance of the above described property and the coverants of warranty meets to be a second or specific and the coverants of the conveyance of the above described property or under the purchaser in said contract, and whall not apply to any taxes, assessments or other sharges levied, assessed or becoming our subsequent to the date of said sources.

Gara Ja Esq. 10000

Sate Investment Co

STATE OF WASHINGTON COUNTY OF King

INTY OF KIRS

On this day personally eppeared before me Clem La Voy and Opal La Voy, his wife

to me known to be the individual@tescribed in and who executed the various and foregoing instrument, and acknowledged that \_\_they signed the same as \_their

free and voluntary act and steed, for the uses and purposes therein mentioned.

GTYEN union my hand and official seal this first.

Miles at XXX is a state of Washington, residing to North Control

STATE OF WASHINGTON

On this 8th day of July
10 \$20, before me, the undersigned, a Notary Positic in and
for the State of Weshington, duty commissioned and swore,
personally applained Jenous W. Jehous A.
Merssell, Jehous A.

to the amount to the the Secretary, respectively, of

the engineration that executed the foregoing instrument, and subposed get the said instrument to be the free and voluntary art and steed of said corporation, to, the side perposes therein mentioned, and on oath stated that The parameters and provide the said

instrument and that the seal affixed is the composite seal of said corporation.

Whenex my hand and official and traffic afficed the day and

Notary Putal In and for the State of Weshingsood, Youding

YAG SHT CADRODAS

Jm 21 1 40 PH 'Rn

RECORDS & ELECTIONS KING COUNTY 007210558

QUITCLAIM DEED

1011年 - 1011

RECOF PASSIFL 10799 D

The grantor, Manitou Equipment Co., an Oregon corporation incorporated on March 27, 1972, for lawful consideration, conveys and quitclaims to The Manitowoo 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 Pile No. 3186886; except those portions of said lots and vacated street conveyed to the state of Washington by deeds recorded under Auditor's Pile Nos. 5205490 and 5320164; and except those portions of said lots and vacated street taken

TI' HO SE DI PS WUL.

SECOBINED THE SAL

NO EXCISE TAX JUNE 8 1982 EDGEO 3778 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.

Arthur T. Church, President

STATE OF GREGON ) SS

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.

Notary Public for Oregon

Place of residence:

My commission expires: 12/4/8

FILED for Record at Request of

return to miles, much & factor 900 has son AUL portramos organ ATZOCI

#### BARGAIN AND SALE DEED

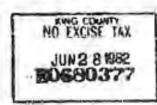
The grantor, Manitou Investment Co., an Oregon corporation, for lawful consideration in hand paid, bargains, sells and conveys to The Manitowoc Company, Inc., a Wisconsin corporation, the following described real estate:

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.

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situated in the county of King, state of Washington.

RECORDED THE DVEN ON A MECORDED THE DESCRIPTION OF A PRICE OF A PRICE DVEN ON A MECORDED THE DVEN



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.

**国际大学,中国中国共和国企会的企业的国际和科学的共和国企业,在**一个企业,在1910年,19

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)
MANITON INVESTMENT CO.

Arthur T. Church, President of Manitou Investment Co.

The same of the same

STATE OF OREGON ) SS

On this 21th 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 me official seal the day and year first above written.

Notaty Public for Oregon

Place of residence: My commission expires: 12/4/8

#### EXHIBIT A

Covenants arising under this deed and RCW 64.04.040, whether express or implied, are limited by:

- 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;
- 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 Manitowoo Company, Inc., or created or suffered by any person, corporation or other entity after 8 a.m. on November 14, 1980.

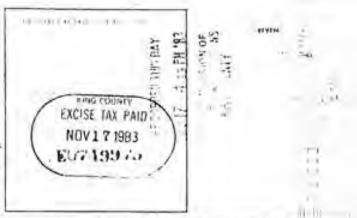
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AFTER RECORDING MAIL TO:

709719 BC



#### Special Warranty Deed

(CORPORATE FORM)

THE GRANTOR The Manitowoo Company, Inc.

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

State of

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 raused this instrument to be executed by its proper officers and its corporate seal to be hereunto affixed this 7th day of October , A.D., 19 83

By Raiph Welm President

Attest: CLC LA

Charles C. West Secretary

STATE OF WASHINGTON,

County of MANITOWICE

On this 7th day of October 1983 , before me, the undersigned, a Notary Public in and for the State of Wiscoms in duly commissioned and sworn, personally appeared Ralph Helm and Charles C. West to me known to be the President and Secretary, respectively, of

The Manitowoo 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 tertificate above written.

Notary Public in and for the State of Wisconsin

My commission expires Hovember 24, 1985

Kenneth R. Ansorage

PARTY AND DESCRIPTION OF THE PARTY AND DESCRI

Kenneth K. Ansorage

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. MASHINGTON:

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 RCSC CAUSE NO. 315467.

ALSO

LOTS & 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. MASHINGTON;

TOGETHER WITH THAT PORTION OF THE SOUTH HALF OF VACATED HELENA STREET ADJUINING 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 MASHINGTON BY DEEDS RECORDED UNDER AUDITOR'S FILE NOS. 5205490 AND 5320164;

AND EXCEPT THOSE PORTIONS OF SAID LOTS AND VACATED STREET TAKEN FOR MEST MARGINAL MAY UNDER PROCEEDINGS HAD IN MCSC CAUSE NO. 515467.

EXHIBIT A

THIS SPACE PROVIDED FOR RECORDER'S USE:

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KCST_GTTTGG

TRANSAMERICA TITLE INSURANCE COMPANY

FILED FOR RECORD AT REQUEST OF

WHEN RECORDED RETURN TO

Harold L. Ness and Alice B. Ness

1125 N.W. 53rd Street

Seattle, Washington 98107

City, State, Zip.

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

9

Exceptions as shown on the attached Exhibit "B" SUBJECT TO:

Dated: November 7,

FILED FOR RECORD AT REQUEST OF TRANSAMERICA TITLE INSURANCE CO.

320 108TH AVE. NE P.O. BOX 1493 BELLEVUE, WA 98009

Manitowoc Western Company,

By:

Its: Treasurey

STATE OF WISCONSIN

COUNTY OF

sworn, personally appeared

On this 8 day of

before me, the undersigned, a Notary Public in and for the State of Wisconsin, duly commissioned and

of Manitowoc Western Company, Inc, TREASURER to me known to be the 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) corporate seal of said corporation.

GINEN under Gy hand and official seal the day and year above written.

the State of Wisconsin, residing at c Printed/Typed Name: Betty My appointment expires:

### "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.

AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:

RECORDED: RECORDING NO.: REGARDING: October 3, 1949 3944125 and 3944136 Release of Damage Agreement

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: Cause No.: "State of Washington 515467

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: Dated: State of Washington September 27, 1957, April 21, 1958 and

Recorded:

June 7, 1967 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: 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 7302150008 and 7401100005

RECORDING NO.:

EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE: PURPOSE:

5.

AREA AFFECTED:

Municipality of Metropolitan Seattle
A sever interceptor and a District
Heating and Cooling System
The Easterly 25 feet more or less of said
premises, together with a temporary
construction easement over the Easterly
65 feet of said premises
8511191140

RECORDING NO.:

- Urban Renewal Plan imposed by instrument recorded on April 2, 1974, under Recording No. 7404020216.
- 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.



**HAROLD NESS** 

County of King

STATE OF WASHINGTON

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 Turaugh 48 will in a vacated block 2 of south park SUBJECT TO Exceptions of record Dated 18 day of Man **GRANTOR** 

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.

ALICE NESS

Dated this 18 May

) SS

Notary Public in and for the State of Washington

Residing in BALLYUL WA

My commission expires  $\coprod \{0,0\}$ 

C\_WDATA.NessHarold/manitowoodstatdeed.doc

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# LEGAL DESCRIPTION:

LOTS 34 THORUGH 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 12 OF VACATED HELENA STREET ADJOINING SAID LOTS ON THE SOUTH;

AND TOGETHER WITH THAT PORTION OF THE SOUTH & 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: THROUGH 19, ALE IN VACATED BLOCK E 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 WOF VACATED HELENA STREET ADJOINING SAID LOTS ON THE NORTH:

EXCEPT THE SOUTH 3: FEET OF SAID LOTS ! 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. 5186886.

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.

When Recorded, Return to:

Department of Planning and Development 700 5th Avenue, Suite 2000

P.O. Box 34019

Seattle, WA 98124-4019



PAGE001 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
Legal Description (abbreviated): Lots 34-48, Block 2 3 lots 1-21, Block 3
(abbreviated): Lots 34-48, Block 2 3 lots 1-21, Block 3
Additional on:
Assessor's Tax Parcel ID#: 788 36003 50
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
٠	WITNESSE!! IT
	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 Arenne South
	as 8250 50 / Ward Court of Start of Sta
	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 (#
	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:
	<ol> <li>Owner(s) will inform his/her successors and assigns of the property described in Exhibit "A" that</li> </ol>
	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	]
Date. 11 (8) 2003	State of Washington ) .
Coast Crone Company	County of King )
Owner/Grantor	County of Tive
Coast Crane Company	I certify that I know or have satisfactory evidence that
Printed Name	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.
By But Ma	the C.F.O. (type of authority,
	e.g., partner, trustee, title of officer, personal representative, guardian, attorney in fact
Brad Mckeoun	for a principal, etc.) of CoAST Crane Company (name of
Printed Name	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.
	Act of Sucreptures rocking does and purposes management and act of sucreptures and act of s
Its Vice President & Ciso	Date: 11-18-05
	NOTARY PUBLIC in and for the State of Washington
	Residing at Seattle
	My commission expires: 3-9-66
	DDING NAME:
	PRINT NAME: Debra. K. Grable
· • • • • • • • • • • • • • • • • • • •	DEBRAK. GRABLE
	NOTARY PUBLIC
	OTATE OF MACHINICTION
	STATE OF WASHINGTON
	COMMISSION EXPIRES MARCH 9, 2006
	Use this space for Notary Seal
	*Constant
and the second s	

## 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

(PORM AVIVEA)

time constraint, and and emperous the 17th da, January, 1973

AUGY M. HENTON, a single women on dates of acquiring title and at all times since

hammelige carry date "batter" and NAMETOW INVESTMENT COMPANY, THE.

meremedant ration short species or, "

WITHEST The There is a celler upons to sell in the parabuser and the carefusor a great imposchase from the keller the

Legal description actsched horsto as Exhibit "A" and by rhis reference rade a part hereof. Legal description attached hereto no Exhibit "A" and by this reference rade a part hereof.

SUBJECT TO: Lemon recorded under Recording No. 6336584; Relinquishment of all existing.

Future or potential endements for access, light, view and air, and all rights of ingress,
eggers 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; Relinquichment of all existing, future or potential ensemble
for access, light, view and air, and all rights of ingress, agrees and regress to, from and
between said premises and the bighway or highways to be constructed on lands conveyed by
band recorded under Recording No. 5205490 to The State of Washington; and, Relinquichment of
all existing, future or potential essences for access, light, view and air, and all rights
of ingress, agrees 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 Unshington. Scote of Unshington.

the same and combined of the contrast or problems. the transfer in MERCE SEVER TROUSAND PIVE HUNDRED 19.74 25th day of January - reprised population's operation on a Salare the ) Dollard / server in the property and the server across the server of purchasor. purchasor.
Seller agrees to furnish parcluser, upon closing, with a Statutory Werrenty Deed for the tollowing legally described portion of the above property being purchased:
The north 89 feet of Lots 1 than 12, block 3, South York Addition together with the south closen (11) feet of the vacated arrect adjoining on the north, being an unimproved tract in King County, Washington as recorded in Volume 4 of pilet page 37, records of King County. (Shring on area of twenty-aix thousand, soven hundred (25,700) square feet)

- If the profession occupies and opices to any before definitions will make and assessments that may an between grantee of quantum transfers that you are used used transfers and it has contract the proceeded to be excurred plays and it is an entirely activate an infer or transfers, or has a year of grantees a proceed to possible a subject to, only transfers and the form of the contract and an infer of the subject to an infer or transfers are subject to any transfer of the subject to a subject to any transfer or transfers or transfers of the subject to an infer or transfers or transfers
- (2) The purchase spread much be proclare price to only point, in these the buildings was and beingthe placed as and end order required in the small rest value of the same and the same and
- (3) The purphyses agreed that high expectation of gold and exacts her been made and that earths is the hellest one has unarqueed by the held of his agreed and the purchases of salar as the entire of the his his purchases of salar as the entire of the his salar agreed as the late of the his salar agreed as the entire of the entire of
- Id. The purificant acquires all begands of the year to arrest the country of the contract.

  Id. The purificant acquires all begands of the year to arrest the any improvements now an early real nature or heart strain strain. The purificant is the purificant of the

- Number parent exception appearing - on the large fields

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Any part of the later of the angle of the angle of the angle of the property o

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12: the action agrees, yet conserving full payment of the purchase poors and determs in the courses obtain appetition, by the act of the course and conservation and the conservation are and the course of the cour and thereal Perception ration for public use time at the same once excels may the man proach above data at clasing through may proper them the public, and copyect to the full many

Religquishment under Recording No. 5205490; Religquishment under King County Superior Court Causa Ro. 515067; and, Relineutshment under Recording No. 5320164.

this bigger of the posterior served for herein, the machiner shall be entitled to passess and all each real estate on date (it also see any for event served as a first served on the facilities of the first served on the improvements on that is all estate to past again and in particular transfer on the facilities of the passes and the improvements on a set is all estate to past again a display and the past of the passes and the control of the passes and the past of the passes and the past of the passes are the past of the passes are the past of the passes are the passes and the passes of the passes are the passes and the passes of the passes are the passes of the pas

19) In case the puchaser hade to make any program brainin popular of an incommon inspiration, as berein required; the relief stage such special properties of the pushes such properties of the pushes such properties of the pushes and the pushes such as a popular pushe by the pushes of the process of the pushes of the control, and it is uponed that an other has pushes of the pushes of the pushes of the pushes of the control, and it is uponed that an other has pushes on the line and in the manner than the pushes of the control, and it is uponed that an other has pushes on the same and in the manner beginner to the control of the manner of the control of the pushes of t

11 trying called, a decision to bring and in entorice any coverant of this contract, including built to called any physical expension between the parchaser agrees to give a ensemble from at attender in such soft, and oil costs and expenses in connection of right and, exactly one such that the included in any judgment or decree entered in such soft.

The effect shall been such to partie or adjudication of the termination of the purchaser's rights becomed used using the contraction of the purchaser of the purchaser is not to pay a reasonable two or attenders of the purchaser in the expenses in termination of the purchaser in the date such that it was not a property about the purchaser in the date such that it is appropriately about it is a determine the condition of that or the date such that it is appropriately which is not the purchaser in the date such that it is appropriately which is not the purchaser.

13 Wil at \$5 BHE CCOF, the person berate have retrued this common as at the data lines written above.

(SEAL) MANITOU ANVESTMENT COMPANY, INC. HEIRY PARI OS ther day pared offer B Ruby H. Newton and acknowledges what I ar bream the other come deal described in and wife executed the within and foregoing incomment, secret the some as her free and voluntary not and duce.

13th war 1861

for the many and proposes their non-emissional.

SIVER under my bread and action of sent this

TILED for him SECURITY THEE day Se. SEATTLE, WASH.

THIS SPACE RESERVED FOR RECORDER'S USE

SECURITY THE PHYSLAMAN ! "YARMIN'S

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Mile Va TERMS part dire prette Transferred to the same of the same of MICHAELD. . . . . . . REQUEST OF

1973 FEB 15 MM 8 00

MAG. ELECTION KING OG VIN 75 P12 5 W

#### EXHIBIT PAPER

Vacate late 36 through 45, including, and portion of vector sprint and alley of the alley and the state of th it vacated street adjoining varated block 3,

COST the worth 11 feat thereof all in South Park, according to plat recorded

The I that portion conveyed for strest purposes by instrument regorded under offer's F'lo No. 2126886 and

. Clif pustion taken for West Housthat May ender King County, Superior Court Shake \$4, 515667 and

. A See Graum parallel with and 96 feet southwesterly, then required at right and ) as from the center less of Primary State Highway No. 1, South light Street tu Jak. SSH 1-2.

AZONE 'A' : 1. to 17 to 21, includive, MID in vacated Block 3, South Park, according to plat recorded in Volume 4 of Plate, page 67, Inching County, ashingtons M.CZTY those persions thereof lying within best Barginal Way and EXCEPT that portion thereof condenned by the State of Vashington for a lighary purposes, in ling County Superior Court Cause he 515677 conveyed by Deed recorded conter Auditor's File So. 5320164, and any parties conveyed by Audicor's File No. 5205490;

nacorder's notat parts of instrument not dark grough for education

SECLIFITY TITLE INCLINANCE COMPANY 

> FILED for Record of Sequent of SECURITY TITLE INS CO.

ricord for Second at Raquest of

SEATTLE, WASH.

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ADDRESS

1.20 FF1 77. TYTE

CITY AND STATE CHOS DEPT.

THIS SPACE IS SERVED FOR MICHIGER'S USE ..... ALOUIST OF 1973 FEB 15 AV 8 00 NAME AND ADDRESS. CLECY OF SHIP GO, WILL with the Fill of

ANYONO H

STATUTORY WARRANTY DEED

RHFY N. MERICH, a single women on doze of acquiring title and at HILL CRANTOR all simes aimes

but and in consciousment Ten Dellars soil other good and valuable consideration

one-HALF interest, and SAFE INVESTMENT CO., a corporation, as to an undivided one-half interest, and safe investment co., a corporation, as to an undivided one-half interest.

The Country the athresing the arrived and estate, situated in the Country of King.

their of Washington:

The south 31 fact of vecated Lots 1 to 16 inclusive, vacated Block 3, South Fack, according to plat recorded in Volume 4 of Plats, page 87, in King County, Rashington;

TOGETHER WITH the north half of vacated alley adjoining; EXCSPT parties deeded to State of Washington by deed recorded under Auditor's File No. 5205490, if way.

SUBJECT TO: Rolinquistment of all existing, future or potential essenants for access, Light, vice and air, and all rights of ingress, agrees and regress to, from and cotween said premises and the highway or highways to be constructe; on lands conveyed by Deed recorded under Recording No. 5203490 to The State of Washington,

TALLIASS 1. 3. - OF FREEDS

SECURITY TITLE INSURANCE COMEAND

The man 4 2 14.50

25th

day of Jenuary, 1973

A. Reuton

(SEAL)

- LATE OF A COME I'M

Court of Ming.

Street

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Lay 1 January, 1973

understand Spring Poids in and by the Sage of Washington, bity constitutioned and sweet, personally appeared

Joy a. Bancon

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tayon 1: ... ary, 1913

water, Public in and por the stone of Washington, confile in Searche



Filed for Record at Request of

ADDRESS

MAIL TOS SECURITY TITES ESCROW DEPT. ESCHOT &

CITY AND STATE

THE GRACE PERSON TO FOR MICCIOURS S USE

----- REQUEST OF

1973 MAR 30 AM 8 00

trace Lati-necchos & ELECTIONS - KING CO. WH. DEPUTY

24676- RS

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

/ PARTIAL Warranty Fulfillment L

THE GRANTOR RUBY M. MEWION, a single woman on dates of acquiring title and at all times since

V. State 12

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 exists, situated in the county of Washington:

State of

ESEAL

The porth 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 on unimproved tract in Ring County, Weshington, as recot in Volume 4 of Plats, page 87, records of King County, Washington,

> MILES TAY DA O ON CONTRACT CEP. RO. CA. O. CALLERS, FOR THOSE SEASONER

This deed is given in fulfillment of that certain real estate contract between the parties hereto, dated , 1973 , and conditioned for the conveyance of the above January 17 described property, and the covenants of warranty herein contained shall not apply to any ricle, interest or encumbrance arising by, through or under the perchaser in said contract, and shall not apply to any taxes, assessments or other charges lexical, assessed or necoming due subsequent to the date of said commet

> day of Pebruary, 1973 13th

STATE OF WASHINGTON.

County of King

Raby M. Hewton

t'an tins day personally appeared before me to me known to be the indicated described in and wise executed the within and margoing distribution and tree and voluntary are and deed has the her who signed the same as a knowledged that uses and purposes the coir countraind

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Mate of Wast inglan.

equiling.

THIS SPACE HISPAYED FOR ITCOMERY'S USE

RECORDED

BM JAL 3 PK 11 62

RECORDS & ELECTIONS KING COUNTY, WASH.

Filed for Record at Request of

HAME I fell H Johnson.

ADDRESS 27-C Scattle 1 1 Mal HA 12ldy

CITY AND STATE LEATTLE Work 90124

OhJ:brm

0130

### Quit Claim Deed

THE GRANTOR, MARCIA N. CAGLE, as her sole and separate estate,

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

convers and quit claim S in CLEM LAVOY and SAPE INVESTMENT CO., a Washington corporation,

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

The south 11 feet of Lots 17 to 21 inclusive, all in "acated 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.

Dated this

- - 22

day of

December 1973.

MARCIA N. CAGLE

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-ISEAL)

STATE OF WASHINGTON.

STATE OF VASHINGTON.

i punts of KING

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Wilker

### DISCLOSURE FORM

Fing County Trainings No. 1496 requires the following disclosure or siturcative valued lines to temperal prior to entry into a binding systement to purchase. Three copies of each disclosure or siturnative values was be prepared. One copy shall be retained by the prospective vendors one copy shall be retained by the prospective purchaser enters into a binding systement to purchase, the prospective purchaser enters into a binding systement to purchase, the mandor shall file the third copy with the bine County Department of Records and Elections when other increases. are recorded.

A violation by any vendor or vendor's agent of any provision of Ordinance bo. 1490 may result in which ment 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 sever system from the parcel you are thinking to buying, you must install a private sever system approved by the King County Department of Health in belief to build a bouse or any structure which will be used for busse Babitation. We building permits are resent for parcels which cannot have access to approved public or approved private seath systems. To 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 percel if the Department of Health has not approved the plan for and approved the installation of the private system. Before you enter into an agreement to purchase this percel, you should contact the Mint Cristy Department of Health to determine the procedures for installing a private sever system.

ac	or selier may have had a percolation test made on the parcel b nertification sewage disposal system designer. If so, that follow.	y a registered civil or sanitary register of the conclusions of the first separate
	SELLEP'S CEPRESENTATION	is .
PE	RODLATION TEST. Seller nest complete either Statement A or St	atement f as apprepriate.
d.	my agent [Name of Agent] civil or sanitary engineer or certificated sewson disposal s coats on this parcel: (Legal Description)	ystem designer, has confected secondation
7401030511	The peruplation tost was conducted on /Date)  my agent concluded that a septio tack system could could in conformance with standards set by King County and in effect of the county and in effect of t	From the tasts, ild not be installed on this percent at the date of the test.
	Seller's Signaturn	Once
p.	No percolation tests have been conducted on this parcel: (L	egal Description
	I have no knowledge or information from which a determination system may be installed on this parcel, except as follows:	n can be made as to whether a septio tan (To be completed by swiler.)
	I represent that the statements above are true.	
	Sallas's Signature	Sets
	BLYER'S SICHATURE	
	I have read this statement and understand its contents.	9an 3 1474

WAIVER I'IN THE ALTERNATIVE!

// Open the condition this sale will not be closed union this percel is subjected to a percelation test witch meets the requirements of the King County Department of Number.

have to

I have read this disclosure form and understand its contents. I waive wendor's disclosurat

(A) Winconditionally

Prospective Purchaser's Signature

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1) I I Commercial Table Income to Tampen, of Mathagan - ACRITORS EDGE #11 LEEF AND ALTURNS 1 IN FACE

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### DISCLOSURE FORK

king County Ordinance Sc. 1496 requires the following disclosure or elternative waters for the completer prior to entry into a binding agreement to purchase. Three copies of each disclosure or elternative water must be prepared; the copy shall be retained by the prospective weadors one copy shall be retained to the prospective purchaser. If the prospective purchaser enters into a binding agreement to purchase, the feel that the third copy with the King County Department of Seconds and Electrons when before interesting are recorded.

A violation by any render or wender's agent of any provision of Ordinance the, 1490 may result to injustment of a civil possity in an amount not to exceed \$250.00 for mech violation.

### NOTICE TO PURCHASES

if there is no relationable access to a public sanitary sever system from the parcel you are thinking of buying, you must install a private sever system approved by the fing County Department of Health in order to build a house of any structure which will be used for human habitation. No building permits are said for parcels which cannot have access to approved public or approved private sever system. No permit will be issued for and no emptic tank systems may be located on this parcel andems it has been safepowed the percolation feet 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 percolation the Department of Nealth has not approved the plan for and approved the installation of the private when system. Defore you enter into an agreement to purchase this percol, you should contact the sine Crunty Department of Mealth to determine the procedures for installing a private sever system.

Your neller may have had a percolation test made on the percel by a registered civil or sanitary enquirous or cortaficated sewage disposal system designer. If so, that fact and the conclusions of the Kenl appearation.

### STILLED'S REPRESENTATIONS

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	Contract of the contract of th		Committee of the commit		 THE RESERVE OF THE PERSON NAMED IN	 TOTAL PARTY OF THE	122	The state of		the residence of the fact that the

The percolation tast was conducted on (Date)
ny agent concluded that a septic tank system could could not be installed on this parcel
in tonformance with standards set by King County and in effect at the date of the tast.

I required that the statements show are true.

Seller's Signature

Date

a. An percolation tests have been conducted on this parcel: (Legal Description)

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

I represent that the statements above are true.

170294

Seller's Signature

BUYER'S STONATURE

I have reed this statement and understand its contents.

received to programme of the programme.

Jan 3 1974

Date

MAIVER ITS THE ALTERNATIVE

I have read this disclosure form and understand its contents. I we've wendor's disclosure;

W Unconditionally

/7 Upon the condition this sale will not be closed unless this parcel is subjected to a percolation test which meets the requirements of the fine County Department of health.

Prospective Purchaser's Signature

tage 3 1975



REAL ESTATE CONTRACT

CORPORATE FORM A-1984

THIS CONTRACT, made and amound into this 27 day of January 1974,

between SAFE INVESTMENT CO., a Washington corporation, and CLEN LaVOY and

OPAL waVOY, his wife, RAZORE ENTERPRISES, INC., a Washington corporation, hereinalise called the "murchaser."

WITHESSETH: That the seller ogrees to self to the purchaser and the purchaser agrees to purchase from the seller rise

following described real setate, with the apparturements, in

County, Mule 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, vreated Block I, South Park, see rding to plat recorded in Volume 4 of Plets, 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.

treet are as follows: The purchase price is 15 22, 900 00 1 Dollars, of which TWENTY-TWO THOUSAND NINE HUNDRED----hean poid, the receipt whereof is hereby actnowledged, and the halance of said purchase price shall be poid as Cellers have

or more of purchastarie author, as se before the day of

Dollars. or main of purchaser's option, on or belong the purchaser halfor square to per interest on the dominishing belonce of soid purchase price shall have been fully paid. The purchaser further agency to per interest on the deminishing belonce of said

surches series of the roots of the per cour per control to make day of the selection of the deducted from each users linear payment and the bulence of much payment applied in reduction of

All payments to be made herounder shall be made at 2920 Seattle-1st Natl. Bank Bldg, Seattle, WA.

Furchaser 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 Pebruary 1, 1976; \$20,000.00 on principal, in 1977, on or before Pebruary 1, 1977. Interest on diminishing balance of purchase price principal, at the rate of 7-1/2 per cent per annum from Pebruary 1, 1974 shall be paid on said dates of payment of said principal payments.

As referred to in this contract, "date of closing" sholl by Fabruary 1, 1974

(1) The curchaser dynamic and agrees to pay believe delinquency all teams and accessments that may as between grantees beriefely become a lien on said real exists; and if by the terms of this contract the purchases has existent and payment of or agreed to purchase has existent appropriate day marriages, assumed some contract or after excumbrance, or has assumed payment of or agreed to purchase subject to, any transmit examples are a lien on and said seet extent, the surchaser agreed to pay the same before delinquency;

(2) The purchaser ogness, until the purchase price is fully poid, to keep the buildings new and harmfur placed on and real actors required to the actors cash value thereof against take or deserge by both fire and windstores in a company accupation to the seller and for the seller's benefit, as his inhoiser may appear, and to say all promises therefor and to deliver all positions therefor and to deliver all

(3) The purchappy ograna that full inspection of acid tool status has been made and that maither the salles our key statights be held to any coverant suspecting the condition of any improvements thereon are shall the purchases or salles or the outside a far in the held to any coverant or agreement for alterations, improvements or reports unless the coverant or agreement railed on is contained barein or is in writing and otteched to and made a part of this contract.

ment railed on its contained herein or is in writing and otherhood to and made a part of this contract;

(4) The purchaser as since all heaveds of denous to an restriction of any improvements now on and seel save a since closed thereon, and of he toking at any real nation or only part thereof for public uses and degrees that he had desired or exhibition or taking shell constitute a failure of consideration, in case my part of only not a same is taken its part to the purchase of procured the contemporary of the purchase as a size above as a size above as a size of the purchase of an action of any improvements of any size herein or loss the size of any improvements of any improvements of any improvements of the purchase of any improvements of any improvements of the owner, a security of the contemporary of the contem

(5) The uniter has determed, or agrees to deliver maken 15 days of the date of closure transfers in standard form, or a commitment therefor, issued by Servicin Tribe because the purchaser to the full amount of said purchase price against less or decrees by researches and earlier as of the date of closure and containing no succeptions other than the following:

a. Printed general exceptions appearing in said policy form;

by Linna to minimheness which by the forms of this cannect the purchaser is to distributer is to be made subject; and

c. Any necesting experient or contracts under which solitor is purposeing used real network, which soller by Mrs contract refree to pay, more of which fee the purpose defect in soller's title.

(4) if action's tritle to and real enters in adapter to an earging contract or contracts real earlier, or one margings in other obligation which salles to its pay, below agrees with the terms thought, and opins delects, the purchaser shall have the right to easie a delects, and any payments so made shall be upstend to the payments near falling due the

(f) The selles agrees, were reserving full payment of the payethness taken and consects in the manner above specified, in died to and spal actors, nategoing any parture and deliver to purchaser a claruture westpoly... part thisrard Assential taken has public use, tree at annumbrances except one that was attach after date of classing through any column what then the caller, 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.

(E) Unless a different date is provided for herein, the purchaser shall be entitled to pessentian of and real system on date of classing and an arrain pessentian as long as purchaser is not in default humander. The purchaser covenance in here the buildings and other improvements on and real matrix in good report and not to absent mater and not to use, or permit the not at, the real particle of any dispersion of purchaser covenance in particle reservoir, including on or expension of any long of permit provided to any off permit provided to a price of the state of the date purchaser to not only the state of the

(9) In case the purchaser field to make any payment hardin previded or its maintenn insurance, as herein required, the sellar may make such payment or effect such insurance, and any amounts as paid by the sailer, tegether with interest of the rate of 10% per armount respect from date of payment until repeat, shall be repayable by purchaser in sellar's domand, all written suspection or may other right the sellar might have by reason of such default.

(10) Time is at the example of this contract, and it is agreed that in case its purchaser shall fust to comply with or performing condition or decisionant hereof or be each care payment excurred hereometer property of the time and it. In manure herein required, the sailer may ofger to decise of the specialists of the property of the time and it. In manure herein required, the sailer may ofger to decise of the specialists of the s

(11) Upon seller's election to bring suit to enforce any systement of this contract, including suit is collect my payment required horizonder, the principant agrees to pay a reasonable sum as attender, if one and all cours and algorithm in connection with suit, which sums shall be included in any judgment or decree entered in such state.

If this paths shall bring suit to precent an adjudication of the termination of the partners's rights becomes in comparison with such sums of partners, and argument is commonly to be partners, and argument in community with such sum; and close the partners are such suit is consistently in the condition of fills at the date such suit is commonly to the sums shall be included in any pulgrams or decree entered in such suit.

IN WITHESS WHEREOF, the parties become been energed this instrument as of the date first written above. RAZORE ENTERPRISES, INC. INVESTMENT mus Course President ву Secretary - State of 43 15 MAIL TOS SAFECO TITLE STATE OF MASHINGTON, ESCHOW DEFT. 250201 , 25 County of KING On this 29 1 January 1074 day of , paramally appeared OFFILE H. JOHNSON JON W. SATHER Fredidant and Secretary, respectively, of SAFE INVESTMENT CO. the corporation that executed the faregoing instrument, and arknowledged said instrument to be the free and valuators dat and dead of soid respectation, for the usua and purposes theroin mentioned, and on eath stated that surheneed to measure the soid instrument and that the real afficed is the corporate seal of soid to in Witness Whorsel, I have harments has my bend paid affined my afficial soul the day and manager Sonttle STATE OF WASHINGTON. County of KING On this day personally appeared before me CLEN LAVOY and OPAL LAVOY to see known to be described a described in and who executed the within and foregoing instrument and acknowledges to the purpose the same as the reference and columnary for and deed in the purpose the same as the purpose the same as the same as the reference and columnary for and deed in the purpose the same and the same as the January. H 74. Description in and for the Stone of Backington, residing or Sport La

Security Tale fraudose Company of Meetingson - ACKNOWLEDGOENT - DROMARY

75,76 7,76



SECURITY TITLE INSURANCE COMPANY

Filed for Record at Request of

ADDRESS\_\_\_\_\_

THIS SPACE RESERVED STREET PHOER'S USE

1974 FEP 4 # P OC

ELECTION -KING C. WA

FILED for Receid at Request of SAFECO TITLE INS. CO. SEATTLE, WASH. 110

E# 249===	THE COMMENSAGE STATES AND ACCORDED FOR
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Filed for Record at Request of	
Name Value 478, occ	FEB 1 1 34
Address 406 3 3.4	RECORDED KC
City and State SEAPT he we	
F 24 92 0 3	
NING CO. REC. 40 E 24 92 63	Vision or or project
Touchely Statutory Warranty	Deed
7/	
THE GRANTOR Sere Investment Co., a Weshing Le Voy and Opel Le Voy, his wi	ton corporation, and Clam
for and in consideration of Ten dollers	
in hand paid conveys and warrants to Rezore Enterprises.	Inc. a Washington corporation
the following described real estate, situated in the County of Kino	State
Washington: PARCEL A: That portion of the south half of v platted as Lots 25 to 48 inclusive, according 4 of Plats, page 87, King County, Meshington, 99; TOSETHER WITH south half of the vecated all portion thereof conveyed to the State of Weshi by deed recorded under King County Recording &	decated Block 3, South Park to plat recorded in Volume lying southwesterly of SR ley adjoining: EXCEPI that noton for highest purposes
PARCEL 8: The south 31 feet of vecated Lots 1 81ock 3, South Park, according to plet recorde page 87, in King County, Washington; TOGETHER vecated alley adjoining; EXCEPT portion deeded by deed recorded under King County Recording N	d in Volume 4 of Flats, Will the north helf of to State of Weshington
PARCEL C: The south 31 feet of Lote 17 to 21, Block 3, South Park, according to plat recorder page 87, in King County, Washington, EXCEPT the within West Marginel Way: and EXCEPT that porthe State of Washington for highway purposes, in Court Cause No. 515467, conveyed by deed recordered No. 5320164, TUGETHER WITH the north Subject to the following:	inch sive. ALL in vecated d in Volume 4 of Plate. one portions thereof lying tion thereof condemned by n King County Superior ded under King County
Utility ensement, conveyed and granted to the ! Seattle, which bears date of December 14, 1973,	, permanently over and across
the northeastarly portion of the above-describe This deed is given in fulfillment of real estate of	ed property.

Dated this 7th day of Jenuary 1977
SAFE INVESTMENT CO.

By Const To Sensing Pres. Self 26 12 1941

By Const To Sensing Pres. Self 26 12 1941

Toron of Washington.

On this day personally appeared before me Diem La Voy and Doal La Voy, his wife

to me known to be the individual® described in and who executed the within and it returns instrument and acknowledged that they signed the same as their free and welcomes — and deed for the uses and purposes therein mentioned.

GIVEN under my hand and official sent this 7th

day it January

1 77

Notary Public in and for the state of historycom, residing at 125 3 at 1

STATE OF WASHINGTON.

Launty of KING

January

fatore no personally appeared

OFELL H. JOHNSON and JEROME M. JOHNSON ...

to be the President and Secretary respectively of the corporation that executed the within and foregoing instrument, and acknowledged the laid instrument to be the free and voluntary as I and deed of said corporation for the uses and purposes therein mentioned, and on oath stated that the Y attenument to execute and instrument.

AS ALTS I ... AHERITATE, I have been not us, hand and attions us efficial shall the day and you li sellen.

Anter, Walls to and he she true of Markengine orander to Seattle.

Security Title Insurance Company of Washington - ACKNOWLEDGMENT - CORPORATION

THE REAL PROPERTY.



### SECURITY TITLE INSURANCE COMPANY

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Filed for Record at Request of

CITY AND STATE

NAME	CHIKNOWN	_	-	-
ADDRESS		-	-	

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### Warranty Fulfillment Deed

THE GRANTOR all times since

for and in consideration of Ten Bollars 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 Washington:

State of

Vacated Lots 34 through 45, 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 Mirg County, Mashington; EXCEPT that portion conveyed for street purposes by instrument recorded under Auditor's File No. 3186866 and EXCEPT portion taken for West Marginal May under King County Separator Court Cause No. 515667 and EXCEPT all that portion of the following described Parcel "N" lying northeasterly of a line drawn parallel with and 10 feet southwesterly, when reasoned at right angles from the centerline of Primary State Mighray No. 1, South 112th Street to Jet. 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 27, in King County, Washington; EXCEPT these portions thereof lying within West Marginal Way; and EXCEPT that portion thereof conderned by the State of Washington or

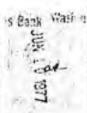
EXCEPT that portion thereof conderned by the State of Washington or highway purposes, in Hing County Superior Court Cause No. 515467 conveyed by Deed recorded under Auditor's File No. 5320164, and may portion conveyed by Auditor's File No. 5205490.

















(60,50)

This deed is given in fulfillment of that certain real estate contract between the parties beneto, dated described property, and the coverants of warranty lettern contained shall not apply no are title, interest or encumbrance arising by, through or under the pareitiser in said contract, and shall not apply to any texts. assessments or other charges levied, assessed or becoming due subseque at in the date of and contract

Dated this

da of January, 1973

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 exceeds the within and there are morning and out of acknowledged that the signification some as her free and violentation or and door that the uses and purposes therein mentioned

GIVEN under m. hand and officeal scal this 13th

STACS THE PARD ON SOUTHERT ARE NO 208 689 KALS OF RECERBON GARAGON

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After Recording Return To: Preston Gates & Ellis LLP 701 Fifth Avenue, Suite 5000 Seattle, Washington 98104 Attn: Robert D. Neugebauer

Grantor:

Razore Enterprises, Inc

Grantee:

Josie Razore

Legal Description:

Abbreviated Form: 500 South Sullivan Street, Seattle,

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 3. 1998.

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-1-

86/25/30 29102913 11392.00 STATE OF WASHINGTON

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.

FREDURA

Notary Public

Print Name S

My commission expires

Dated: June 23, 1998

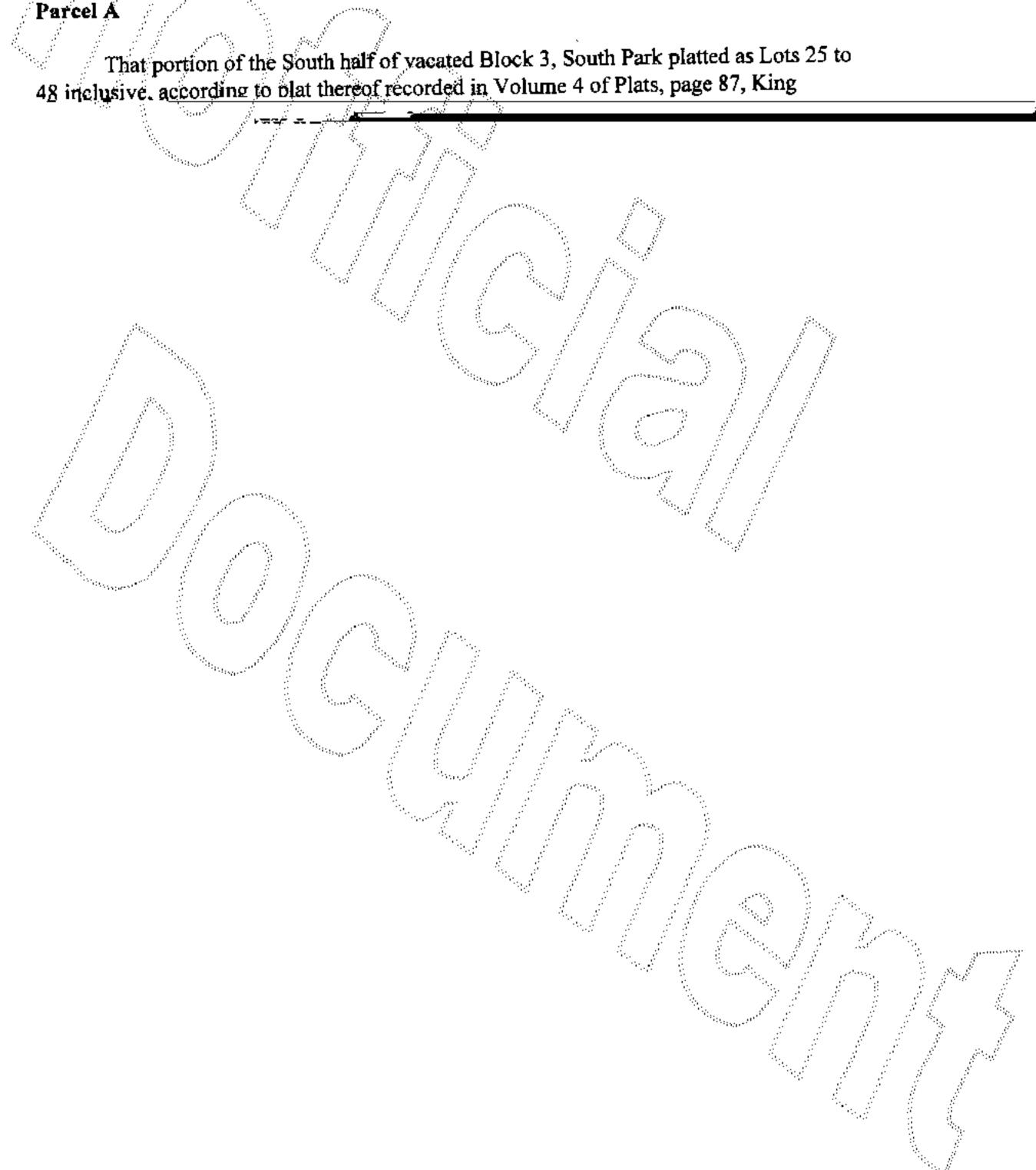
PUBLIC OF WASHINGTON

Use this space for notarial stemp/seal).

-2-

## **EXHIBIT A**

## Legal Description







After Recording Return To: Preston Gates & Ellis LLP 701 Fifth Avenue, Suite 5000 Seattle, Washington 98104 Attn. Robert D. Neugebauer

## OUIT CLAIM DEEL

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\DeedSultivan2.doc

-1-

STATE OF WASHINGTON

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 23, 1998

Print Name Suzant My commission expires

## **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.

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20000218001354

FIRST AMERICAN WD

AFTER RECORDING MAIL TO:

First South Properties, L.L.C., A Washington Limited Liability Company 7343 E. Marginal Way S. Seattle, WA 98108

> KING COUNTY, HA \$11,932.68 \$670,375.01 TAX

PAGE 001 OF 002

10.00

Filed for Record at Request of 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

 $\infty$ 

- 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

THE GRANTOR Paper Fibers, Inc., A Washington Corporation, a corporation or 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

, State of Washington: the following described real estate, situated in the County of KING 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 $10$ th day of February, $2000$	- THO'
By Paper Fibers, Inc., A Washington Corporation	
By Male June Victoria.	By PUBLIC ?
NELS JOHNSON, VICE-PRESIDENT STATE OF WASHINGTON	
County of King	SS:
I certify that I know or have satisfactory e	vidence that <u>NELS JOHNSON</u> the person who appeared before
authorized to execute the instrument and acknowled	signed this instrument, on oath stated that
to be the free and voluntary act of such party for the Dated: 2.1/. ©	ne uses and purposes mentioned in this instrument.
	Notary Public in and for the State of WASHINGTON
	Residing at DM-05
	My appointment expires: 71605

# 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 VACALID ALLEY ADJOINING OR ABUILING THEREON, WHICH UPON VACALION, ALLACHED 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 SUPPRIOR 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

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 TUTURE RIGHTS TO LIGHT, YII W 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 1/1/1/1

IN FAVOR OF.

THE STATE OF WASHINGTON'S

(AS TO PARCEL C)

EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN WAS

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

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 SEATILE

FOR.

A SEWER INTERCEPTOR AND A DISTRICT HEATING

AND COOLING SYSTEM

AFFECIS 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

 $k_{\rm part}N_{\rm part}^{\rm in}$ 

AFTER RECORDING MAIL TO White Sands, L.L.C., a Washington Limited 1 1125 NW 53rd Street Seattle, WA 98107



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 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. IST AM-SC

788360-0600-08 Assessor's Tax Parcel Number(s)

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 See Attached Exhibit A

, State of Washington

Subject to: easements, restrictions, reservations and provisions attached hereto as Exhibit "B"

	And the state of the	* <del></del>
Dated this 6		<u> </u>
Ву		By First South Properties, L.L.C., a Washington Limited liability company
Ву		By
		Ralph Devin Manager
STATE OF	WASHINGTON	}
County of	KING	
	100 (App 100)	
I ce	ertify that I know or have satisfacto	
		15 the person who appeared before
me, and said	d person acknowledged that	he signed this instrument, on oath stated that he is
authorized to	o execute the instrument and acknow	wledge it as the Manager
to be the free	e and voluntary act of such party for	or the uses and purposes mentioned in this instrument
Dated Apr	11//2000 NNE	- Vistannelle avecle-
	By First South Properties, L.L.C., a Washington Limited liability company  Ralph Devin Manager  WASHINGTON  KING  SS:  tify that I know or have satisfactory evidence that Ralph Devin  1s the personwho appeared before personacknowledged thathe_signed this instrument, on oath stated thathe_is execute the instrument and acknowledge it as theManager  of First South Properties, L.L.C.  and voluntary act of such party for the uses and purposes mentioned in this instrument.	
	By First South Properties, L.L.C., a Washington Limited liability company  Ralph Devin Manager  F WASHINGTON  KING  SS:  Certify that I know or have satisfactory evidence that Ralph Devin  18 the person who appeared before said person acknowledged that he signed this instrument, on oath stated that he is to execute the instrument and acknowledge it as the Manager  of First South Properties, L.L.C.  Tree and voluntary act of such party for the uses and purposes mentioned in this instrument pril/2090 NNF  Suzanne/Schroeder  Notary Public in and for the State of WASHINGTON  Residing at REDMOND	
	20 11 11 11 11 11 11 11	Residing at REDMOND
		My appointment expires: 2/02/2002
	W 11.54.5	

# EXHIBIT "A"

# PARCEL A

THAT POR MON OF THE SOUTH HAIT OF VACATED BLOCK 3 OF SOUTH PARK PLATTED AS LOTS 25 TO 48, INCLUSIVE, ACCORDING TO PEAL RECORDED IN VOLUME 4 OF PLATS AT PAGE(S) 87, IN KING COUNTY, WASHINGTON, LYING SOUTHWESTERLY OF SR 99; TOGETHER WITH THE SOUTH HAIF OF VACATED AT LY ADJOINING OR ABUTTING THEREON, WHICH UPON VACATION: AFTACHED 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 I 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 VACAILD 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 THLREON, WHICH UPON VACATION, ATTACHED TO SAID PREMISES BY OPERATION OF LAW

# EXHIBIT "B"

RELINQUISHMENT OF ALL EXISTING AND FUTURE RIGHTS TO LIGHT, VIEW AND AIR, TOGFTHER WITH THE RIGHTS OF ACCESS TO AND FROM THE STATE HIGHWAY

CONSTRUCTED ON LANDS CONVEYED BY INSTRUMENT RECORDED SEPTEMBER 26 1960

RECORDED SEPTEMBER 26, 1960 RECORDING NO 5205490

RECORDING NO 5205490 IN FAVOR OF THE STATE

(AS TO PARCEL B)

THE STATE OF WASHINGTON

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 REGILES 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)

LASIMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN-

RECORDED MARCH 11, 1974

RECORDING NO 7403110477

IN FAVOR OF MUNICIPALITY OF METROPOLITAN SEATFLE

FOR: A SEWER INTERCEPTOR

AFFICIS A HE NORTHEASTERLY 21 FEET OF PARCELS B AND C

WATER SERVICE AGREEMENT AND THE TERMS AND CONDITIONS THEREOF

RECORDING NO RAZORE ENTERPRISES

RECORDING NO RAZORE ENTERPRISES

CLIV OF SEATTLE

SEPIEMBER 18, 1984

8409180727

RECORDING NO 8409180727

EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN.

RECORDED FEBRUARY 5, 1986

RECORDING NO 8602050509

IN FAVOR OF MUNICIPALITY OF METROPOLITAN SEATTLE

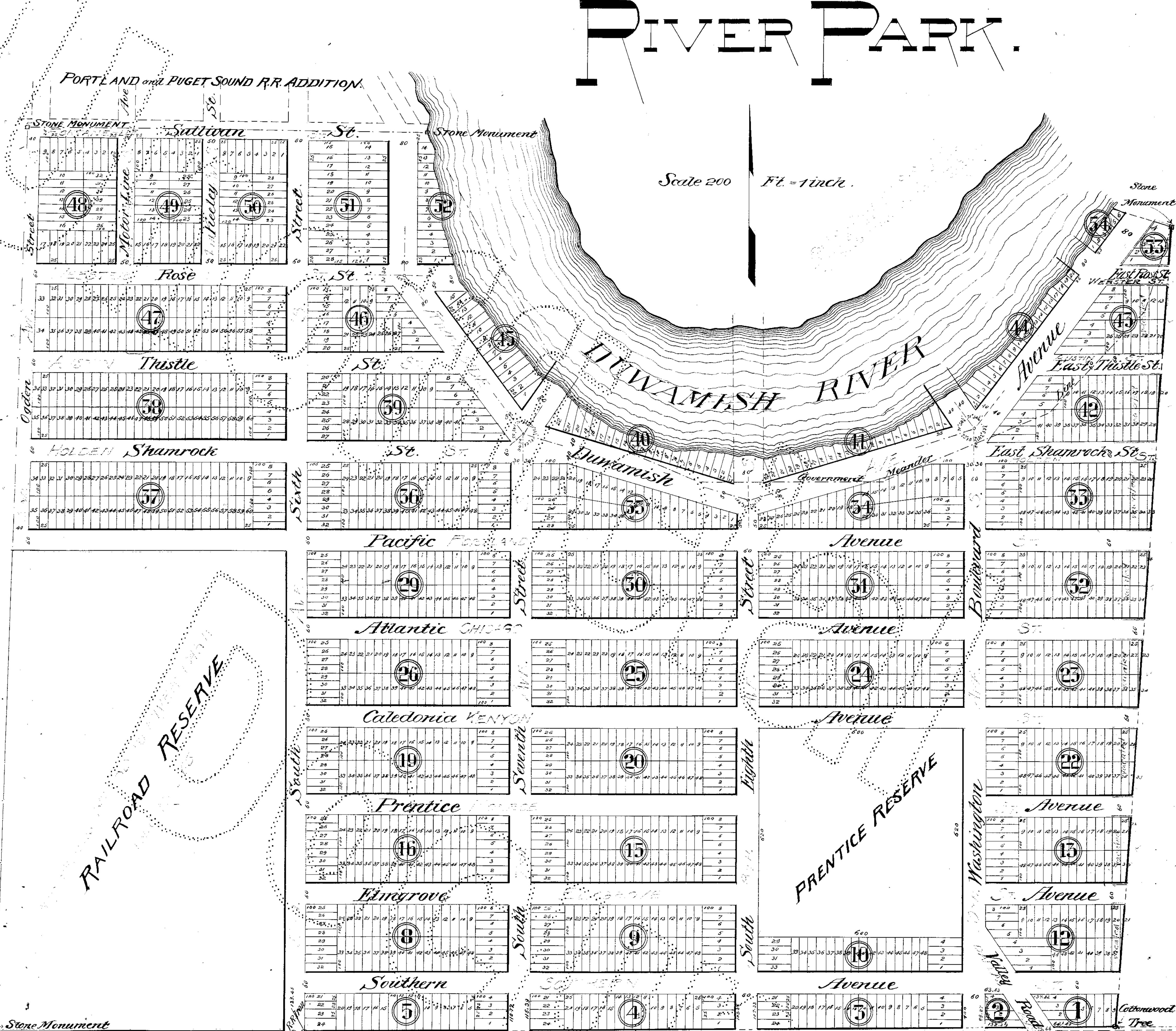
FOR A SEWER INTERCEPTOR AND A DISTRICT HEATING

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

# Attachment 3 Plat Maps



# Description.

Initial Point

N.W. Cor. of A Hograve Ilon. Cl.

This plat of "River Park" embraces all the land, included in "The George Holt Donation Claim No 51" in Sections 29 and 32, Township 24, North of Range 1-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 Nº 37", which point is distant 2397 % ft. West of the Cottonwood tree at the South East corner of the said "George Holt Donation Claim Nº 51" and on the South line Grereof. 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 × 100 feet in size. Dimensions of fractional lots and of all streets and Avenues . are as indicated on the plat :

SI Estz Rec.

# Dedication

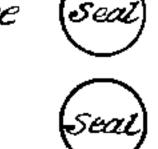
This is to certify, that we, Alexander Prentice and Jane Prentice, his wife, are the owners in fee simple of the "George Holt Donation Claim Nº 51, in Sections 29 and 32, Township 24 North, of Range 4 East, in King County, State of Washington, and that we do hereby adopt, make and declare this: plat of "River Park", iledicating 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 Junuary A.D. 1891.

Jane Frentice

Mexander Frentice (seal) Zlaid Myers

Ovid II. Byers



72269. Filed for Record at Request of J. H. Gordd at 3.45 octobe P.M.

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# Acknowledgment.

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# State of Washington County of King

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On this 10th day of January SI. II. 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.

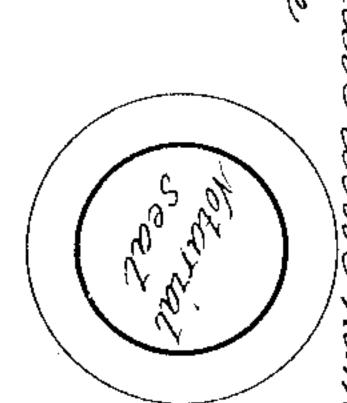
Witness my hand and official seal thedate, above



Oved A. Byers Sotary Rublic for State of Washington residing at Seattle.

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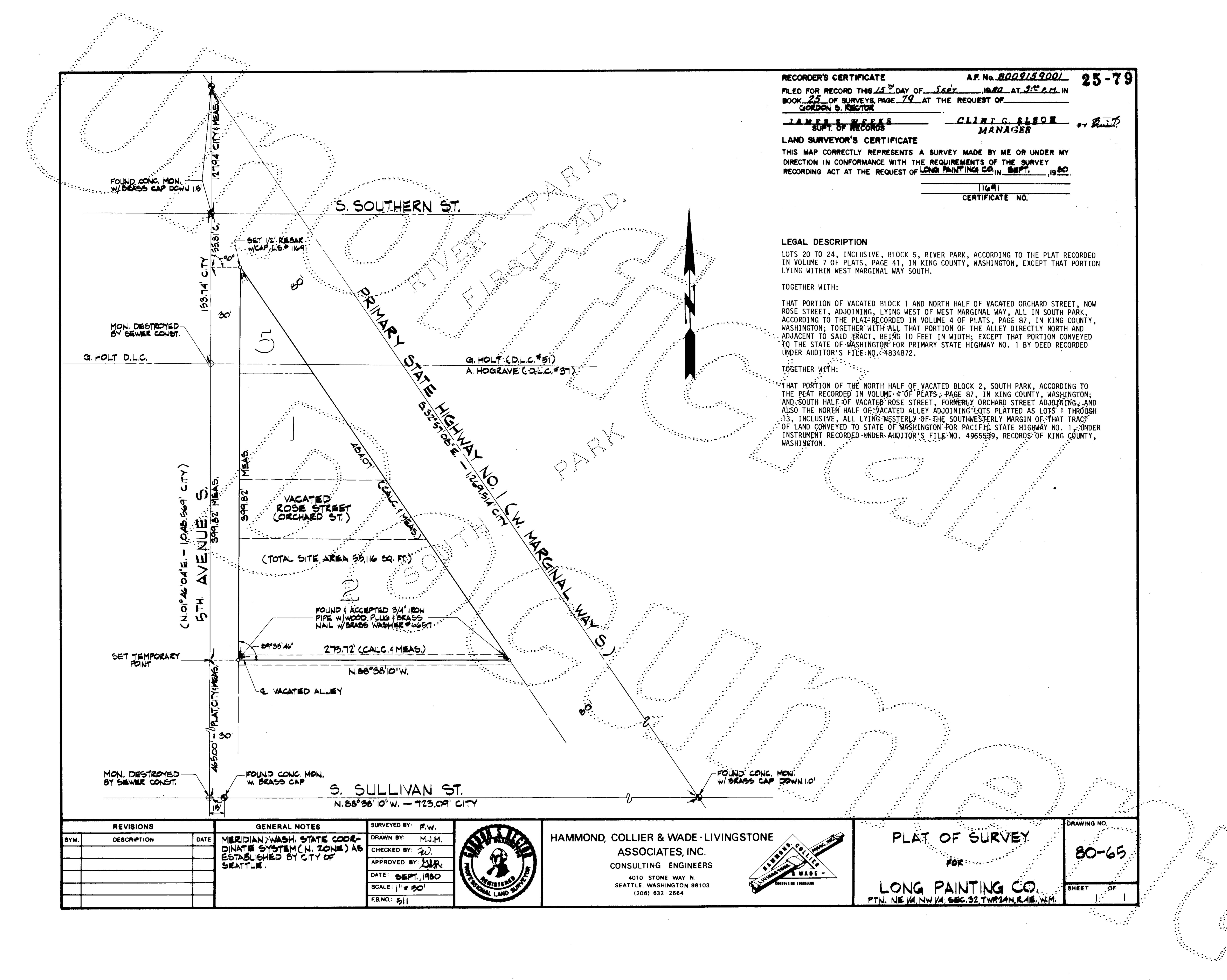




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### **South Park Landfill**

## Remedial Investigation/ Feasibility Study

# Appendix B Boring, Well, Landfill Gas Probe, and Test Pit Construction Logs

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### **Tables**

F L O Y D | S N I D E R South Park Landfill

**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	Х
BH-02	BH-2	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-03	BH-3	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-04	BH-4	On-site	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-05	BH-5	On-site	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-06	BH-6	On-site	KIP	1995	Temp Gas Probe	BBL 1995	Х
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	Х
BH-09	BH-9	On-site	KIP	1995	Temp Gas Probe	BBL 1995	Х
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	Х
BH-12	BH-12	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-13	BH-13	On-site	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-14	BH-14	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-15	BH-15	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-16	BH-16	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-17	BH-17	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-18	BH-18	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-19	BH-19	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-20	BH-20	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-21	BH-21	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-22	BH-22	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-23	BH-23	Near Vicinity	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-24	BH-24	Perimeter	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-25	BH-25	On-site	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-26	BH-26	On-site	KIP	1995	Temp Gas Probe	BBL 1995	Х
BH-27	BH-27	On-site	KIP	1995	Temp Gas Probe	BBL 1995	Х
C-01	C-01	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-02	C-02	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-03	C-03	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-04	C-04	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-05	C-05	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
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	Х
C-08	C-08	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-09	C-09	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-10	C-10	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-11	C-11	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-12	C-12	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-13	C-13	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-14	C-14	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-15	C-15	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-16	C-16	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-17	C-17	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-18	C-18	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-19	C-19	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-20	C-20	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-21	C-21	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-22	C-22	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
C-23	C-23	On-site	SPPD	2007	Test Pit	Farallon 2007	Х

F L O Y D | S N | D E R South Park Landfill

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	Х
C-25	C-25	On-site	SPPD	2007	Test Pit	Farallon 2007	Х
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		-	SKCPHD	
					Temp Gas Probe		
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 <sup>st</sup> Ave. S	2008	Reconnaissance GW Sample	Farallon	Х
FB-02	FB-2	Near Vicinity	ROW 1 <sup>st</sup> Ave. S	2008	Reconnaissance GW Sample	Farallon	Х
FB-03	FB-3	Near Vicinity	ROW 1 <sup>st</sup> Ave. S	2008	Reconnaissance GW Sample	Farallon	Х
FB-04	FB-4	Near Vicinity	ROW 1 <sup>st</sup> Ave. S	2008	Reconnaissance GW Sample	Farallon	Х
FB-05	FB-5	Near Vicinity	ROW 1 <sup>st</sup> Ave. S	2008	Reconnaissance GW Sample	Farallon	Х
FB-06	FB-6	Near Vicinity	ROW 1 <sup>st</sup> Ave. S	2008	Reconnaissance GW Sample	Farallon	х

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	х
FB-08	FB-8	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	Х
FB-09	FB-9	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	Х
FB-10	FB-10	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	Х
FB-11	FB-11	Near Vicinity	ROW – SR 509	2011	Reconnaissance GW Sample	Aspect	X
FB-12	FB-12	Perimeter	ROW – 5 <sup>th</sup> Ave S	2011	Reconnaissance GW Sample	Aspect	Х
FB-13	FB-13	Perimeter	ROW – 5 <sup>th</sup> Ave S	2011	Reconnaissance GW Sample	Aspect	Х
FB-14	FB-14	Near Vicinity	ROW – 5 <sup>th</sup> Ave S	2011	Reconnaissance GW Sample	Aspect	Х
GHA-1			SRDS		Hand Auger Boring	Herrera	
GHA-2		On-site	SRDS		Hand Auger Boring	Herrera	
GSB-1			SRDS		Soil Boring	Herrera	
GSB-2	3-2 On-site		SRDS		Soil Boring	Herrera	
GSB-3	-3 On-site		SRDS		Soil Boring	Herrera	
GP-01	SB-1	On-site	SPPD	1997	Gas Probe	Udaloy	Х
GP-02	SB-2	On-site	SPPD	1997	Gas Probe	Udaloy	Х
GP-03	GP-3	Perimeter	ROW - S. Clover- dale St.	1998	Gas Probe	AESI	Х
GP-05	GP-5	Near Vicinity	ROW by Emerson Power Products	1998	Gas Probe	AESI	х
GP-07	GP-7	Near Vicinity	ROW East of SR 99	1998	Gas Probe	AESI	Х
GP-09	GP-9	Perimeter	ROW – SR 99 at 5 <sup>th</sup> Ave S	1998	Gas Probe	AESI	Х
GP-11	GP-11	Near Vicinity	ROW by Int's Equip't	1999	Gas Probe	AESI	Х
GP-13	GP-13	Near Vicinity	ROW by North Star	1999	Gas Probe	AESI	Х
GP-15	GP-15	Near Vicinity	ROW by Emerson Power Products	1999	Gas Probe	AESI	х
GP-16	GP-16	Perimeter	SPPD	1999	Gas Probe	AESI	X
GP-17	GP-17	On-site	SPPD	1999	Gas Probe	AESI	Х
GP-19	GP-19	On-site	SPPD	1999	Gas Probe	AESI	Х
GP-20	GP-20	On-site	SPPD	1999	Gas Probe	AESI	Х
GP-21	GP-21	On-site	SPPD	1999	Gas Probe	AESI	Х
GP-22	GP-22	On-site	SPPD	1999	Gas Probe	AESI	Х
GP-23	GP-23	Near Vicinity	ROW – East of SR 99	1999	Gas Probe	AESI	Х
GP-24	GP-24	Near Vicinity	KIP	2011	Gas Probe	Herrera	Х
GP-25	25 GP-25 Near Vicinity KIP		KIP	2011	Gas Probe	Herrera	Х
GP-26	GP-26 Near Vicnity ROW- SR 99		ROW- SR 99	2010	Gas Probe	Aspect	Х
GP-27	7 GP-27 Perimeter ROW – 5 <sup>th</sup> Ave		ROW – 5 <sup>th</sup> Ave S	2011	Gas Probe	Herrera	Х
GP-28	GP-28 Perimeter ROW – 5 <sup>th</sup> Ave		ROW – 5 <sup>th</sup> Ave S	2011	Gas Probe	Herrera	Х
GP-29	GP-29 Perimeter ROW – 5 <sup>th</sup> Ave		ROW – 5 <sup>th</sup> Ave S	2011	Gas Probe	Herrera	Х
GP-30			ROW – 5 <sup>th</sup> Ave S	2011	Gas Probe	Herrera	Х
GP-31			ROW – 5 <sup>th</sup> Ave S	2011	Gas Probe	Herrera	Х
GP-32	<u> </u>		Emerson Power Products	2010	Gas Probe	Aspect	Х

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.	Х
HP-02	HP-2	Perimeter	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	Х
HP-03	HP-3	Near Vicinity	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	Х
HP-04	HP-4	On-site	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	Х
HP-05	HP-5	On-site	KIP	1995	Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	Х
HP-06	HP-6	On-site	ite KIP		Reconnaissance GW Sample	Blasland, Bouck & Lee, Inc.	Х
KB-01	B-1	On-site	KIP	1992	Soil Boring	Diagnostic Engineering, Inc.	Х
KB-02	B-2	On-site	KIP	1992	Soil Boring	Diagnostic Engineering, Inc.	Х
KB-03	B-3	On-site	KIP	1992	Soil Boring	Diagnostic Engineering, Inc.	Х
KMW-01	MW-1	On-site	KIP	1989	Monitoring Well	Golder Associates	Х
KMW-01A	MW-1	Perimeter	KIP	1995	Monitoring Well	Blasland, Bouck & Lee, Inc.	Х
KMW-02	MW-2	On-site	KIP	1989	Monitoring Well	Golder Associates	Х
KMW-02B	MW-2B	On-site	KIP	1989	Monitoring Well	Golder Associates	Х
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.	Х
KMW-04	MW-4	On-site	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	Х
KMW-05	MW-5	Near Vicinity	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	Х
KMW-06	MW-6	Perimeter	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	Х
KMW-07	MW-7	Near Vicinity	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	Х
KMW-08	MW-8	Near Vicinity	KIP	1992	Monitoring Well	Diagnostic Engineering, Inc.	Х
MW-01	MW-1	Near Vicinity	North Star Ice Equipment	1991	Monitoring Well	Geo Engineers	Х
MW-02	MW-2	Near Vicinity	North Star Ice Equipment	1991	Monitoring Well	Geo Engineers	Х
MW-03	MW-3	Near Vicinity	North Star Ice Equipment	1991	Monitoring Well	Geo Engineers	Х
MW-04	MW-4	Perimeter	Right of Way – S. Sullivan St.	1998	Monitoring Well	Associated Earth Sciences, Inc.	Х
MW-06	MW-6	Near Vicinity	Emerson Power Products	1998	Monitoring Well	Associated Earth Sciences, Inc.	Х
MW-08	MW-8	Near Vicinity	East of SR 99	1998	Monitoring Well	Associated Earth Sciences, Inc.	Х
MW-10	MW-10	Perimeter	Right of Way – SR 99/5th Ave. S.	1 1998 I Monitoring Well I		Associated Earth Sciences, Inc.	Х
MW-12	MW-12	Near Vicinity	Right of Way – Occidental Ave. S./ International Construction Equipment	1999	Monitoring Well	Monitoring Well  Associated Earth Sciences, Inc.	
MW-14	MW-14	Near Vicinity	Right of Way – Occidental Ave. S./ North Star Ice Equipment	1999	Monitoring Well	Associated Earth Sciences, Inc.	Х

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.	Х
MW-25	MW-25	Perimeter	Right of Way – SR 99/5th Ave. S.	2006	Monitoring Well	Aspect Consulting	Х
MW-26	MW-26	Near Vicinity	Right of Way – East of SR99	2006	Monitoring Well	Aspect Consulting	Х
MW-27	MW-27	Near Vicinity	East of SR 99	2006	Monitoring Well	Aspect Consulting	Х
MW-29	MW-29	Perimeter	Right of Way – Occidental Ave. S.	2011	Monitoring Well	Aspect Consulting	Х
MW-30	MW-30	Near Vicinity	Right of Way – SR 99/S. Kenyon St.	2011	Monitoring Well	Aspect Consulting	Х
MW-31	MW-31	Near Vicinity	Right of Way – SR 99/S. Kenyon St.	2011	Monitoring Well	Aspect Consulting	Х
MW-32	MW-32	On-site	SRDS	2011	Monitoring Well	Aspect Consulting	Х
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 Public Health –		Seattle & King	
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	Х
PZ-03	PZ-3	On-site	SPPD	2008	Piezometer	Farallon Consulting, LLC	Х
RB-09	B-9	Perimeter	Right of Way – 5th Ave. S.	1991	Soil Boring	RZA-AGRA, Inc.	Х
RB-10	B-10	Perimeter	Right of Way – 5th Ave. S.	1991	Soil Boring	RZA-AGRA, Inc.	Х
RB-11	B-11	Near Vicinity	S. Kenyon Street	1991	Soil Boring	RZA-AGRA, Inc.	Х
RB-12	B-12	Near Vicinity	S. Kenyon Street	1991	Soil Boring	RZA-AGRA, Inc.	Х
RB-13	B-13	Near Vicinity	S. Kenyon Street	1991	Soil Boring	RZA-AGRA, Inc.	Х
RMW-01	MW-1	Near Vicinity	Right of Way – S. Sullivan St.	1991	Monitoring Well	RZA-AGRA, Inc.	Х
RMW-02	MW-2	Perimeter	Right of Way – 5th Ave. S.	1991	Monitoring Well	RZA-AGRA, Inc.	Х
RMW-03	MW-3	Perimeter	Right of Way – 5th Ave. S.	1991	Monitoring Well	RZA-AGRA, Inc.	Х
RMW-04	MW-4	On-site	SPPD	1991	Monitoring Well	RZA-AGRA, Inc.	Х
RMW-05	V-05 MW-5 On-site SPPD			1991	Monitoring Well	RZA-AGRA, Inc.	Х
RMW-06			SPPD	1991	Monitoring Well	RZA-AGRA, Inc.	Х
RMW-07			SPPD	1991	Monitoring Well	RZA-AGRA, Inc.	X
RMW-08	RP-01 RP-01 Perimeter Occidental Ave.		1991 2011	Monitoring Well Soil Probe	RZA-AGRA, Inc.  Aspect Consulting	X	
RP-02	RP-02 RP-02 Perimeter Occidental Ave. S.		2011	Soil Probe	Aspect Consulting	Х	

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	х
RP-05	RP-05	Perimeter	Right of Way – Occidental Ave. S.	2011	Soil Probe	Aspect Consulting	Х
RP-06	RP-06	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	Х
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	Х
RP-09	RP-09	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	Х
RP-10	RP-10	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	Х
RP-11	RP-11	Perimeter	Right of Way – Occidental Ave. S.	2010	Soil Probe	Aspect Consulting	Х
RP-12	RP-12	Perimeter	Right of Way – Occidental Ave. S.	2011	Soil Probe	Aspect Consulting	Х
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.	Х
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		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			Public Health – Seattle & King County			
SS-01A	SS-01	Perimeter	SPPD	2010	Sediment	Aspect Consulting	Х
SS-02A	SS-02	Perimeter	SPPD	2010	Sediment	Aspect Consulting	Х
SS-03A	SS-03	Perimeter	SPPD	2010	Sediment	Aspect Consulting	Х
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	Х
TB-02	Boring 2	On-site	SRDS	1965	Soil Boring	Unknown	X
TB-03	Boring 3	On-site	SRDS	1965	Soil Boring	Unknown	Х
TB-04	Boring 4	On-site	SRDS	1965	Soil Boring	Unknown	X
TB-05	Boring 5	On-site	SRDS	1965	Soil Boring	Unknown	Х
TB-06	Boring 6	On-site	SRDS	1965	Soil Boring	Unknown	Х
ТВ-07В	TB-1 (2-17-89)	On-site	SRDS	1989	Piezometer	City of Seattle - Materials Laboratory	Х
TB-07C	TB-1 (9-26-89)	On-site	SRDS	1989	City of Seattle - 989 Piezometer 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	Х
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	Х
TB-10	TB4	On-site	SRDS	1988	Piezometer	City of Seattle - Materials Laboratory	х
TB-11	TB5	On-site	SRDS	1988	Piezometer	City of Seattle - Materials Laboratory	х
TB-12A	TB6	On-site	SRDS	1988	Piezometer	City of Seattle - Materials Laboratory	Х
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	Х
TB-14	TB8	On-site	KIP	1989	Piezometer	City of Seattle - Materials Laboratory	Х
TB-15	TB9	Perimeter	KIP	1989	Piezometer	City of Seattle - Materials Laboratory	Х
TB-16	TB10	On-site	SRDS	1989	Piezometer	City of Seattle - Materials Laboratory	Х
TB-17	TB11	On-site	SRDS	1989	Piezometer	City of Seattle - Materials Laboratory	Х
TB-18	TB12	On-site	Right of Way – 2nd Ave. S.	1973	Piezometer	City of Seattle - Materials Laboratory	Х
TB-19	TB13	On-site	SRDS	1992	Piezometer	City of Seattle - Materials Laboratory	Х
TB-20	TB14	On-site	SRDS	1992	Piezometer	City of Seattle - Materials Laboratory	х
TP-01	TP-1	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	Х
TP-02	TP-2	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	Х
TP-03	TP-3	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	Х
TP-04	TP-4	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	Х
TP-05	TP-5	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	х
TP-06	TP-6	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	Х
TP-07	TP-7	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	х
TP-08	TP-8	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	х

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	Х
TP-11	TP-11	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	Х
TP-12	TP-12	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	Х
TP-13	TP-13	On-site	SPPD	1997	Test Pit	Udaloy Environmental Services	Х
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.	Х
TP-26	TP-26	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	х
TP-27	TP-27	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	х
TP-28	TP-28	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-29	TP-29	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-30	TP-30	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-31	TP-31	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-32	TP-32	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-33	TP-33	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-34	TP-34	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-35	TP-35	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-36	TP-36	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х

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.	х
TP-38	TP-38	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-39	TP-39	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-40	TP-40	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-41	TP-41	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-42	TP-42	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-43	TP-43	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-44	TP-44	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-45	TP-45	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-46	TP-46	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-47	TP-47	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-48	TP-48	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-49	TP-49	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-50	TP-50	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-51	TP-51	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-52	TP-52	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-53	TP-53	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-54	TP-54	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-55	TP-55	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-56	TP-56	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-57	TP-57	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-58	TP-58	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-59	TP-59	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-60	TP-60	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-61	TP-61	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-62	TP-62	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-63	TP-63	On-site	SPPD	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-64	TP-64	Perimeter	Right of Way – Occidental Ave. S.	1998	Test Pit	Associated Earth Sciences, Inc.	Х
TP-65	TP-65	Perimeter	Right of Way – Occidental Ave. S.	1998	Test Pit	Associated Earth Sciences, Inc.	х
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.	Х
7-4600	7-4600	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4545	7-4545	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
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.	Х
7-2700	7-2700	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-2750	7-2750	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-2800	7-2800	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-2844	7-2844	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-2883	7-2883	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-2950	7-2950	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
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.	Х
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.	Х
7-3250	7-3250	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
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.	Х
7-3450	7-3450	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3497	7-3497	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3500	7-3500	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3503	7-3503	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3546	7-3546	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3550	7-3550	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х

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.	х
7-3600	7-3600	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3647	7-3647	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3650	7-3650	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3700	7-3700	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3760	7-3760	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-3803	7-3803	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	х
7-3850	7-3850	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	х
7-3900	7-3900	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	х
7-3950	7-3950	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	х
7-4000	7-4000	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	х
7-4037	7-4037	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4095	7-4095	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4150	7-4150	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4250	7-4250	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4300	7-4300	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4350	7-4350	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4400	7-4400	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4450	7-4450	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х
7-4500	7-4500	Near Vicinity	Right of Way – SR 99/5th Ave. S.	1986	Geotechnical Boring	Hong Consulting Engineers, Inc.	Х

## 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

			Coord	dinates	Ground Surface	Monitoring Well Casing	Well Casing Stickup Relative to Ground				
Monitoring Well	Unit of Completion	Installation Date	Northing <sup>1</sup> (NAD83)	Easting¹ (NAD83)	Elevation <sup>2</sup> (NAVD 88)	Elevations <sup>2</sup> (NAVD 88)	Surface (ft)	Total Boring Depth (ft bgs)	Total Well Depth (ft bgs)	Screened Depth (ft bgs)	Geologic Matter at Screened Interval
Monitoring W	ells	•		•	•						
KMW-01A		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	Bl I	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	Perched and Upper Zone of Shallow Aquifer	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	Silt and Sand with Organic Matter
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

			Coord	linates	Ground Surface	Monitoring	Well Casing Stickup				
Monitoring Well	Unit of Completion	Installation Date	Northing <sup>1</sup> (NAD83)	Easting <sup>1</sup> (NAD83)	Elevation <sup>2</sup> (NAVD 88)	Well Casing Elevations <sup>2</sup> (NAVD 88)	Relative to Ground Surface (ft)	Total Boring Depth (ft bgs)	Total Well Depth (ft bgs)	Screened Depth (ft bgs)	Geologic Matter at Screened Interval
Monitoring W	ells (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
Reconnaissan	ce Borings with Grou	ındwater Sampl	es								
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

			Coord	linates	Ground						
Monitoring Well	Unit of Completion	Installation Date	Northing <sup>1</sup> (NAD83)	Easting <sup>1</sup> (NAD83)	Elevation <sup>2</sup> (NAVD 88)	Elevations <sup>2</sup> (NAVD 88)	Relative to Ground Surface (ft)	Total Boring Depth (ft bgs)	Total Well Depth (ft bgs)	Screened Depth (ft bgs)	Geologic Matter at Screened Interval
Reconnaissand	ce Borings (continue	d)									
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

		Coordi	inates <sup>1</sup>	Ground Surface	Probe Casing	Probe Casing Stickup	Total Boring	Total Probe	Screened	
Gas Probe	Installation Date	Northing (NAD83)	Easting (NAD83)	Elevation (NAVD 88) <sup>1</sup>	Elevation (NAVD 88)	Relative to Ground Surface (ft)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Geologic Material at Screened Interval
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

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Table B.3
Soil Gas Monitoring Probe Completion Summary for RI/FS Soil Gas Monitoring and Sampling Locations

		Coordi	nates¹	Ground Surface	Probe Casing	Probe Casing Stickup	Total Boring	Total Probe	Screened	
Gas Probe	Installation Date	Northing (NAD83)	Easting (NAD83)	Elevation (NAVD 88) <sup>1</sup>	Elevation (NAVD 88)	Relative to Ground Surface (ft)	Depth (ft bgs)	Depth (ft bgs)	Depth (ft bgs)	Geologic Material at Screened Interval
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					
	1, 3, 5, 6, 7, 8, 10	Construction joint	Warehouse concrete slab on grade Good condition—several floor		
7900 Occidental Avenue South			cracks less than one-eighth inch wide		
	2, 4, 9	Cracks in slab	Finished concrete slab		
			Office and kitchen space vinyl tiles		
	1	Restroom			
	2	Office carpet	Finished concrete slab		
7900 Occidental Avenue South  7910 Occidental Avenue South  7920, 7930, and 7934 Occidental	3, 4, 7, 8, 9	Construction joint	Restroom—no floor drain		
	5	2-inch construction joint, filled	Warehouse concrete slab on grade Good condition—several floor		
	6	Open 1-inch joint	cracks less than one-eighth-inch		
	10	Crack (slab/ramp 8 percent joint)	wide Finished concrete slab		
	11	Crack			
	1,2	Office carpet			
	3, 6, 7, 9, 11, 12, 13, 14, 16	Construction joint			
	4, 5, 10, 19	Crack			
	8	2-inch joint, filled			
7920, 7930, and	15	2-inch construction joint filled	Finished concrete slab		
7934 Occidental Avenue South	17	Containment area construction joint	Restroom—no floor drain Office spaces—carpet and vinyl		
	18	Column at floor— settlement cracked and spilled	Warehouse exposed slab on grade		
	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 (continu	ued)				
	1	Office carpet, new	Warehouse concrete slab on grade		
7936 Occidental	2	Office floor	Good condition—one floor crack		
Avenue South	3, 4, 5, 6, 8	Construction joint	less than one-eighth inch wide		
	7	Crack	Finished concrete slab		
Building B					
	1	Door crack at foundation/slab			
	2, 4, 7, 8, 9, 11, 12, 14, 16, 17, 18, 19	Construction joints	Warehouse concrete slab on grade		
121 and 123	3	Crack in slab at roll up door	Fair condition—several floor cracks less than one-eighth inch wide		
South Kenyon	5	Slab crack	Finished concrete slab		
Street	6	Slab crack/construction joint	Restroom—no floor drain  123—Elevated slab west loading dock		
	10	Crack	- dock		
	13	4-inch diameter pipe/slab			
	15	Floor drains (3)			
	1	Office space carpet over concrete	Warehouse concrete slab on grade		
125 South	2	Restrooms, vinyl— open area	Good condition—several floor cracks less than one-eighth inch		
Kenyon Street	3, 5, 6, 10, 11, 12, 13	Construction joint	wide Finished concrete slab		
	4, 7, 8, 9	Crack	Office and kitchen space vinyl tiles		
	6	Construction joint			

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 (continu	ued)				
	1, 10, 11	Crack	Warehouse concrete slab on grade		
127 South	2, 3, 4, 6, 7, 9	Construction joint	Good condition—several floor		
Kenyon Street	5	Restroom	cracks less than one-eighth inch		
	8	Construction joint/crack	Warehouse concrete slab on grade Good condition—several floor cracks less than one-eighth inch wide Finished concrete slab  Office—tiles Warehouse—concrete		
	1	Office floor tile			
	2, 4, 5, 7, 8, 10	Construction joint			
120 South	3	Large crack	Office—tiles		
129 South Kenyon Street	6	Restroom vinyl			
	9	10-inch diameter fire penetration through slab			
	11	Office floor tiles			
Building C					
	1	Building floor			
	2	Construction joint	Office—office tiles		
7937 Second	3, 4, 8, 10	Trench drain	Warehouse—slab on grade		
Avenue South	5, 6, 7	Freezer— construction joint			
	9	Drain slab pen			
	1, 2	Office space—tiled			
	3	Warehouse concrete—crack			
7925 Second Avenue South	4	Crack	less than one-eighth inch wide		
	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 (contin	ued)					
			Warehouse concrete slab on grade			
7929 Second Avenue South	1, 2, 3, 4, 5, 6, 7	Construction joint	Fair condition—several floor cracks less than one-eighth inch wide			
			Finished concrete slab			
Building D						
	1	Carpet over concrete—open area				
	2, 3	Restroom vinyl				
	4, 5, 6, 7, 13, 15	Construction joint	Warehouse concrete slab on grade			
7951 and 7952 Second Avenue	8, 11, 12, 16	Crack	Good condition—several floor cracks less than one-eighth inch			
South	9	Bath floor drain	wide			
	10	Cracks, along wall footing	Finished concrete slab			
	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 (contin	ued)				
	1, 5, 8, 13	Construction joint			
	2	Crack			
	Ing D (continued)    1, 5, 8, 13   Construction joint				
	4	Crack			
7953 Second	6		Warehouse concrete slab on grade Fair condition—numerous floor		
Avenue South	7		one-fourth inch wide		
	9	Foundation to ACP	Finished concrete slab		
	10, 11, 12, 14	Crack			
	15	Restroom			
	16	Broom closet			
	17	Office			
Building 7901					
	1				
	2	Kitchen—vinyl			
	3,4	Construction joint	Warehouse concrete slab on grade		
	5, 7, 8	Crack	Good condition—several floor		
7901 Second	6, 9, 11	Construction joint	cracks less than one-eighth inch		
Avenue South	10		Finished concrete slab		
	12	_	Office and kitchen space vinyl tiles		
	13	II			

#### Abbreviations:

ACP Asphalt concrete pavement KIP Kenyon Industrial Park

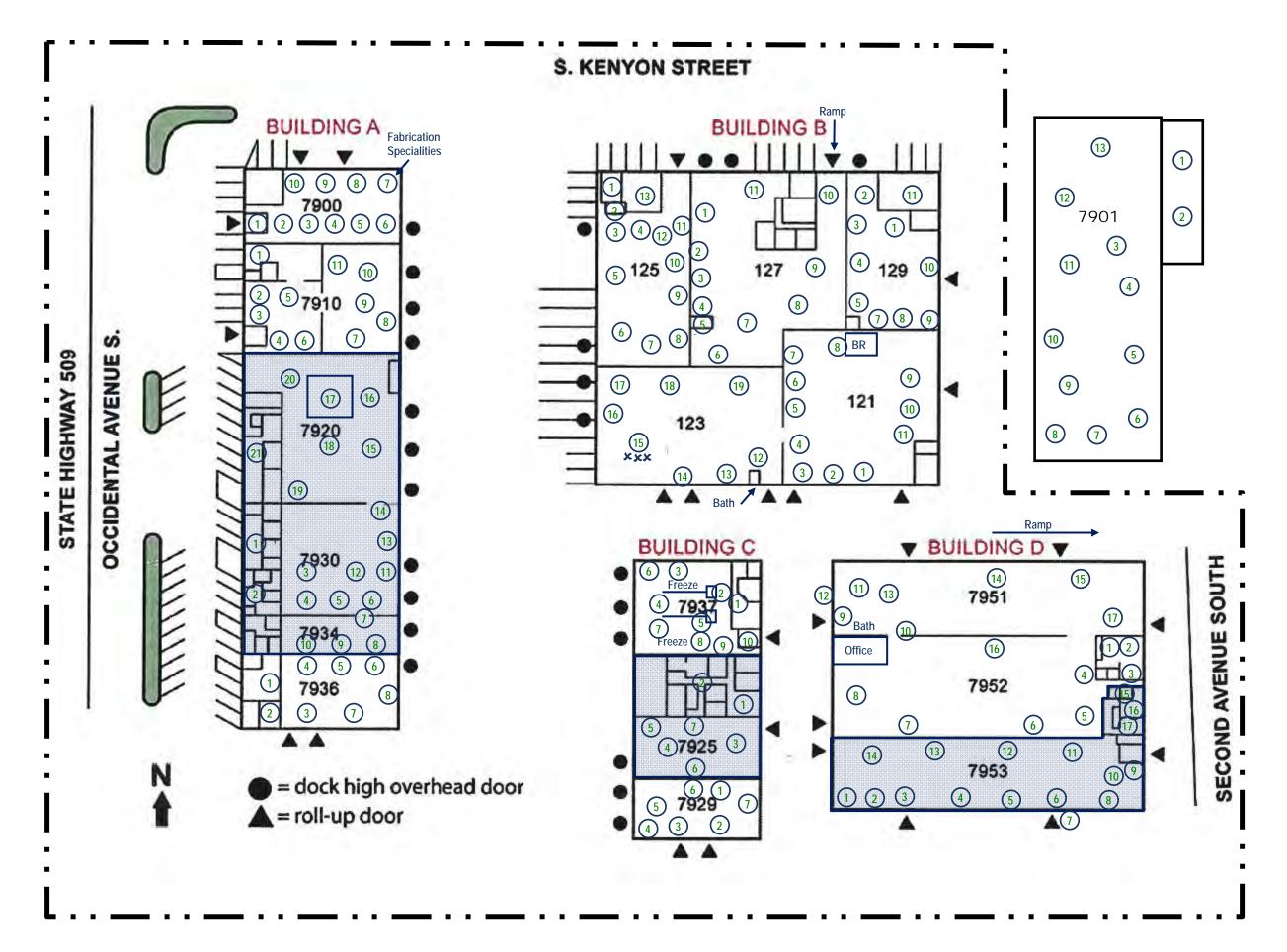
Table B.5
Indoor Air Monitoring Locations—5<sup>th</sup> Avenue South

Building Address	Monitoring Location	Description of Monitoring Location	Description and Condition of Building Foundation		
Building 8230					
8230 5 <sup>th</sup> Avenue South (Timberwolf	1	Water main floor penetration— annular space	Warehouse concrete slab on grade		
Company—west half of building)	2	Natural gas penetration—wall	Very good condition		
	3	Rear storage room	Joints are sealed and tight		
	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			
	ing Address    Coation   Description of Monitoring 8230	Utility room—open area			
	10	Open warehouse	Warehouse concrete slab on grade Very good condition Joints are sealed and tight  Warehouse concrete slab on grade Very good condition Joints are sealed and tight  Warehouse concrete slab on grade Very good condition Joints are sealed and tight  Joints are sealed and tight		
8230 5 <sup>th</sup> Avenue	son Bay				
South (Hudson Bay Company—east half	2	Men's restroom			
of building)	3	Slab on grade floor crack			
	4	Floor drain	Joints are sealed and tight		
	5	Slab on grade floor crack			
Building 8250					
8250 5 <sup>th</sup> Avenue	1	Restroom space			
South (Coast Crane Company)	2	Slab on grade construction joint			
,	3	Floor drain			
	4	Water meter vault	Joints are sealed and tight		
	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



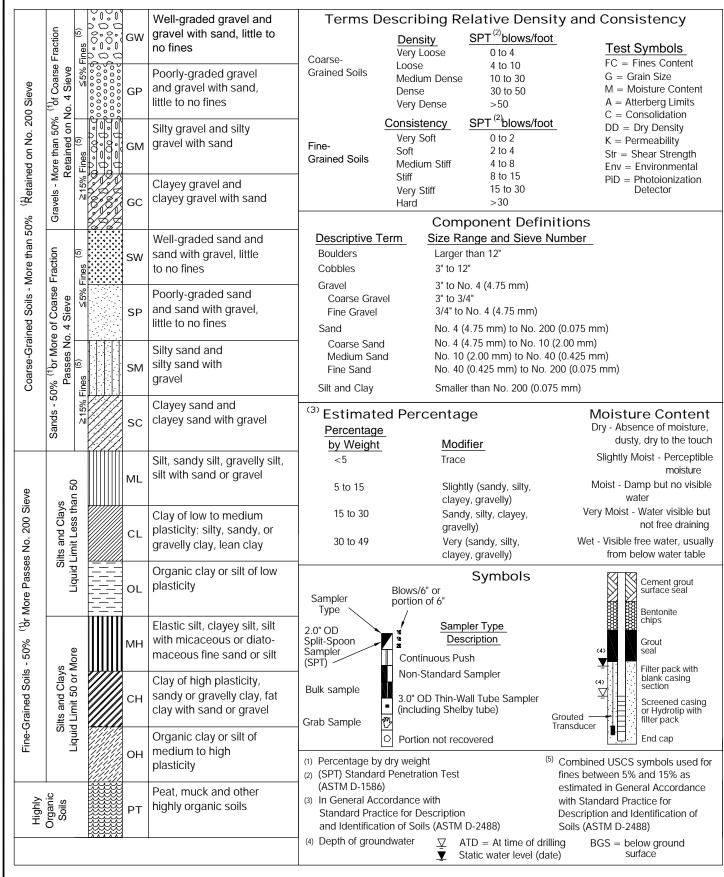
Air Monitoring, Kenyon BP

# **South Park**



# **Boring Logs**

**RI/FS Reconnaissance Groundwater Samples** 



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**

ATE:	PROJECT NO.
ESIGNED BY:	
RAWNBY:	FIGURE NO.
EVISED BY:	l R <sub>-</sub> 1

<b>∆</b> spect					Boring Log						
		Aspe	Ct		Projec	t Numb	er	Boring Number Sheet	Sheet		
		CONSULTI			10	0166		FB-07 1 of 1	1 of 1		
Project Na	ame:	South Park I	_andfill	•				Ground Surface Elev ~18.55' NAVD88 (LII	DAR)		
_ocation:		Seattle, WA									
Driller/Met	thod:	Cascade Drilling	g / Direct P	ush Probe				Depth to Water (ft BGS) 4.5' BGS (ATD)			
Sampling	Method	: Continuous Cor						Start/Finish Date 3/7/2011			
Depth /					PID	Drive/	Material		De		
Elevation (feet)	Б	orenole Completion	Type/ID	Tests	(ppm)	Recovery	Туре	•	(fi		
Elevation	B	∑3/7/2011  Bentonite grout backfill	Sample Type/ID  S-1  S-2  S-3	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 5 to 10' bgs. Sample FB07-10-030711	0.0			Moist, dark brown, slightly sandy, gravelly SILT (ML) with organics and roots near surface  Very moist, olive gray SILT (ML); slightly mottled  PID 0.0 CH4 0.0 O2 20.3 CO2 0.1  Becomes wet  Wet, brown, silty SAND (SM)  Wet, brown SAND (SP); poorly graded fine to mediusand Iron staining PID 0.0 CH4 0.0 O2 20.3 CO2 0.1  Wet, gray SILT (ML); trace sand  Wet, black SAND (SP); fine to medium sand, visible red and white grains  Bottom of boring at 15' below ground surface.	; (f		
-									-		
_	npler Ty	/pe:	Р	ID - Photoionizati	on Dete	ctor (He	adspa	ce Measurement) Logged by: RRH			
O No Re	covery			▼ Stati	c Water	Level					
	•							Approved by: JJS			
Contin	IIIOHE C	ore			er Level			ripprovod by: 000			

		<b>A</b>						Boring Loa	Boring Log			
		Aspe	CT			t Numb	er	Boring Number	Sheet			
		OCON SULT	ING		10	0166		FB-08	1 of 1			
Project Na	ame:	South Park	Landfill					Ground Surface E	elev ~18.96' NAVD88 (LID	AR)		
_ocation:		Seattle, WA										
Driller/Me	thod:	Cascade Drillin	ng / Direct Pu	ush Probe				Depth to Water (ft	BGS) 5' BGS (ATD)			
Sampling	Method	l: Continuous Co	re					Start/Finish Date	3/7/2011			
Depth / Elevation	В	orehole Completion	Sample Type/ID	Tests	PID	Drive/	Materi	Des	scription	Dep		
(feet)	/////	1	Type/ID		(ppm)	Recovery	Туре		ML); with organics and roots	(ft)		
5		∑3/7/2011	S-1		0.0			ear surface PID 0.0 CH4 0.0 02 20.3 CO2 0.1				
_		Bentonite grout backfill	S-2					Vet, olive gray, silty SAN	slightly mottled (olive gray)  ND (SM); trace organics  D (SP); poorly graded fine to	)		
10-				Temporary groundwater sample collected using 3/4" PVC	ı			and becomes black with	n red and white grains	_ _ 10		
-			S-3	prepack screen placed from 8 to 13' bgs. Sample FB08-13-030711	-					+		
T			Ш							T		
15-								Vet, olive gray SILT (ML ragments rottom of boring at 15' be		15		
										+		
Ť †												
						<u> </u>			dh DDU			
O No Re	mpler Ty ecovery nuous C		Р	$\Box$	on Dete c Water r Level	Level	adsp	,	ged by: RRH			
				· · atc	_0.01	· · · · · /		Figur	re No. B- 3			

		Mana	a Ł					Boring Log			
		Aspe	CT			t Numb	er	Boring Number			
		<b>●</b> CONSULT	ING		10	0166		FB-09	1 of 1		
Project N		South Park	Landfill					Ground Surface Elev	~18.29' NAVD88 (LIDA	R)	
Location		Seattle, WA						D 41- 4- 141-4 (ft DOO)	FLDCC (ATD)		
Driller/M		Cascade Drillin		ush Probe				Depth to Water (ft BGS)			
		d: Continuous Co	ore			1	1	Start/Finish Date	3/7/2011	$\overline{}$	
Depth / Elevation (feet)	E	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description		Dept (ft)	
							ЩЩ,	Moist, dark brown, gravelly SIL and roots near surface	T (ML); with organics		
+								Moist, brown, gravelly SAND (S			
								Very moist to wet, olive gray SI	LT (ML); slightly mottled		
†			S-1							†	
1					0.0			PID 0.0 CH4 0.1 O2 20.3 CO2 0.0		1	
+										+	
5 +		∑3/7/2011						Becomes wet		+ 5	
		Bentonite grout backfi									
+										+	
			S-2								
†								Wet, red-brown SAND (SP); po	orly graded fine to	†	
			Ш					medium sand			
10								Sand becomes black with red a	and white grains	10	
				Temporary							
+				groundwater sample collected						+	
				using 3/4" PVC prepack screen							
Ī			S-3	placed from 9 to 14' bgs. Sample-							
1				FB09-13-030711						1	
+										+	
15+	7////							Bottom of boring at 15' below	ground surface.	+15	
+										+	
†										†	
1										1	
_	ampler T		Р	ID - Photoionizatio			eadspa	ce Measurement) Logged by	: RRH	-	
	Recovery tinuous C			$\overline{}$	Water			Approved I	by: JJS		
П соп				<del>≚</del> Wate	r Level	(ATD)		Fiance M-	R /		
								Figure No.	B- 4		

		<b>A</b>						Boring Log			
		Aspe	Ct		Projec	t Numb	er	Boring Number	Sheet		
		CONSULTI			10	0166		FB-10	1 of 1		
Project Name: South Park Landfill				-				Ground Surface Elev	~18.44' NAVD88 (LIDA	R)	
Location: Seattle, WA											
Driller/Method: Cascade Drilling / Direct Push Probe				ush Probe				Depth to Water (ft BGS)	3.5' BGS (ATD)	))	
Sampling	Method	l: Continuous Cor						Start/Finish Date	3/7/2011		
Depth / Elevation		orehole Completion			PID	Drive/	Material			Do	
Elevation (feet)	В	orenole Completion	Sample Type/ID	Tests	(ppm)	Recovery	Туре	Description		De <sub>l</sub>	
								Moist, dark brown SILT (ML); tr organics and roots near surface	ace gravel, with		
			S-1		0.0			Moist, brown, silty SAND (SM)  PID 0.0 CH4 0.1			
+		<u>√</u> 3/7/2011						O2 20.7 CO2 0.0		_	
+								Wet, brown to tan SILT (ML); n	nottled	+	
5 +		Bentonite grout backfill						Wet, gray, slightly silty SAND (	SW-SM)	+ 5	
†								Thin bed volcanic ash		7	
								Wet, olive gray SILT (ML)		_	
+										+	
+			S-2					Wet, red-brown SAND (SP); po medium sand	orly graded fine to	_	
+								Wet, black SAND (SP); poorly sand, red and white grains	graded fine to medium		
10-			S-3	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 9 to 14' bgs. Sample- FB10-13-030711						+1 +	
+											
15 +										<del> </del> 1	
								Bottom of boring at 15' below (	ground surface.	'	
T										Τ	
+										+	
+										+	
										1	
Sar	mpler Ty	ype:	Р	ID - Photoionizatio	n Dete Water		adspa				
Contin	nuous C	ore		$\overline{}$	r Level			Approved I	oy: JJS		
_				vvale	CVCI	(,,,,,,)		Figure No.	B- 5		

Manact							Boring Log			
		Aspe	Ct		Proj	ect Numl	per	Boring Number Sheet		
		CONSULT			1	00166		FB-11 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	I: Continuous Co	re					Start/Finish Date 3/7/2011		
Depth / Elevation	В	orehole Completion	Sample Type/ID	Tests	PIE		Materia	Description	De (f	
(feet)	/////	1	Type/ID	1000	(ppr	n) Recove	y Type		(f	
5		∑3/7/2011  Bentonite grout backfil	S-1	Tempor groundw sample col using 3/4" prepack so	ater lected PVC creen 1 10 to ample- 80711. ample ed.			Moist, brown SILT (ML); trace gravel, with organics and roots near surface  Moist, brown SILT (ML); slightly mottled  Becomes wet, becomes olive-gray. Trace sand PID 0.0 CH4 0.1 O2 20.5 CO2 0.0  Becomes gray, becomes sandy  Wet, red-brown SAND (SP); poorly graded fine to medium sand  Becomes black with red and white grains		
Sar  No Re				PID - Photoic	nization De Static Wat Water Leve	er Level	eadspa	ace Measurement) Logged by: RRH  Approved by: JJS		
						– /		Figure No. B- 6		

		<b>\</b>	<b>-</b> 1					Boring Log		
		Aspe	UT		-	t Numb	er	Boring Number	Sheet	
		<b>■</b> CONSULTII	NG		10	0166		FB-12	1 of 1	
Project Name: South Park Landfill								Ground Surface Elev ~20.35	5' NAVD88 (LIDAR)	
Location: Seattle, WA									401 DOG (4TD)	
Driller/Me		Cascade Drilling		ush Probe				<del></del>	43' BGS (ATD)	
	Method:	Continuous Cor	e	Г				Start/Finish Date	3/8/2011	
Depth / Elevation (feet)	Boi	rehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	71.	Description	D	
+								Moist, brown, sandy GRAVEL (GP)  Moist, black to dark brown, slightly silty	, gravally SAND	
_								(SP-SM);	y, gravelly SAND	
			S-1		0.0			Gravel (GP); crushed rock CH4 1.7 O2 15.5 CO2 0.7 BAL 82.8		
Ť								CO2 0.7 BAL 82.8 Moist, gray, silty SAND (SM)		
+							. 1-1 1 1	Moist, gray, clayey SILT (ML); trace sa	and layers	
5 —		Bentonite grout backfill							_	
_								Light gray, sandy GRAVEL (GP)		
_								Moist, black, gravelly, silty SAND (SM) bricks, charred wood, glass, concrete, debris)	metal (landfill	
			S-2							
10+									+,	
+				Temporary			<b>XXX</b>	Moist to wet, dark gray to black SAND graded fine to medium sand	(SP); poorly	
+		<u>√</u> 3/8/2011	S-3	groundwater sample collected using 3/4" PVC prepack screen	0.0				+	
+				placed from 10 to 15' bgs. Sample- FB12-14-030811					_	
+										
15-								Wet, dark gray, clayey SILT (ML); abuse Bottom of boring at 15' below ground at 15'.		
+									+	
+									+	
†									†	
_	ll mpler Ty <sub>l</sub> ecovery	pe:	P	ID - Photoionizatio  ▼ Static			adspa	ce Measurement) Logged by: AE	Т	
=	nuous Co	ore		$\nabla$	Water			Approved by: JJS	3	
				<del>≚</del> Water	Level	(ATD)				

		Mana	~ <b>+</b>					Boring Log	
		Aspe	CT			t Numb	er	Boring Number Sheet	
		<b>●</b> CONSULTI	NG		10	0166		FB-13 1 of 1	
Project N		South Park	Landfill					Ground Surface Elev ~20.47' NAVD88 (LIDAI	R)
Location:		Seattle, WA							
Driller/Me		Cascade Drillin		ush Probe				Depth to Water (ft BGS) 16.9' BGS (ATD)	
Sampling Depth /	Method:	Continuous Co	re					Start/Finish Date3/8/2011	_
Elevation (feet)	Bo	rehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	31	Description	Depth (ft)
+							00000	Moist, dark brown to gray, gravelly, silty SAND (SM);	+
+			S-1		0.0			scattered landfill debris (glass, wood) PID 0.0 CH4 0.4 O2 18.4	+
								CO2 0.6 BAL 80.5	+
5 -		Bentonite grout backfill						Becomes black. Abundant landfill debris (brick, wood, metal, glass)	- 5
1									
+			S-2						+
+									_
10+								Maint to wat black SAND (SD); paorly graded fine to	+10 +
			Ш					Moist to wet, black SAND (SP); poorly graded fine to medium sand	
+			S-3					PID 0.0 CH4 0.5 O2 17.5 CO2 0.9 BAL 81.2	+
+								Wet, dark gray to black, sandy SILT (ML)	+
15-								Wet, black SAND (SP); thick, occasional beds of silty sand, occassional organics	15
+		∑3/8/2011		Temporary groundwater sample collected					+
1			S-4	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
+									+
+									+
+									+
	mpler Ty	pe:	F	PID - Photoionizatio			adspa	ce Measurement) Logged by: AET	
	ecovery nuous Co	ore			: Water r Level			Approved by: JJS	
								Figure No. B-8	

	<b>N</b> A	co c c t					Boring Log	
	7	spect			t Numb	er	Boring Number Sheet	
		ON SULTING		10	0166		FB-14 1 of 2	
Project N		th Park Landfill					Ground Surface Elev ~16.86' NAVD88 (LIDAR)	)
Location:		tle, WA	), ab Draha				Donth to Water (# BCS) 0.0' BCS (ATD)	
Driller/Me		ade Drilling / Direct F	usn Probe				Depth to Water (ft BGS) 9.0' BGS (ATD)	
Depth /	Method: Conti		1	DID	T		Start/Finish Date 3/11/2011	_
Elevation (feet)	Borehole Cor	mpletion 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  Moist, brown, slightly gravelly SAND (SP); fine to medium sand	- - -
5 -	Bentonite	s grout backfill S-2		0.0			Moist, brown, slightly silty, gravelly SAND (SW-SM)  PID 0.0 CH4 0.1 O2 19.9 CO2 0.1 BAL 79.9	- 5 - -
10-	∑3/11/20	11 S-3	Temporary groundwater sample collected using 3/4" PVC prepack screen placed from 8 to 13' bgs. Sample FB14-12-031111	) }-			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  Wet, red-brown, SAND (SP), fine to medium sand	- -10 -
- - 15-		S-4					Wet, brown, organic SILT (OL)	- - -15
-		S-5	Temporary groundwater sample collecte using 3/4" PVC prepack screen				Wet, black, SAND (SP); fine to coarse sand	-
20 +		S-6	placed from 17 to 22' bgs. Sample FB14-22-03111	0 <del>!</del> -			Wet, gray, silty SAND (SM); fine sand	-20 - - -
+			_				Wet, gray, silty SAND (SM); with 1/2" wood debris	_
	mpler Type:	S-7	PID - Photoionizati	on Dete	ctor (He	eadspa		
	ecovery			c Water	Level		Approved by: JJS	
Contir	nuous Core		∑ Wate	er Level	(ATD)		Apploved by: 000	
							Figure No. B- 9	

		<b>N</b>						Boring Log		
		Aspe	CT			t Numb	er	Boring Number	Sheet	
		<b>●</b> CON SULT	ING		10	0166		FB-14	2 of 2	
Project N	Name:	South Park	Landfill					Ground Surface Elev	~16.86' NAVD88 (LID	AR)
Location	:	Seattle, WA								
Driller/M	ethod:	Cascade Drilli	ng / Direct Pu	ush Probe				Depth to Water (ft BGS	9.0' BGS (ATD)	
	g Method	: Continuous Co	ore					Start/Finish Date	3/11/2011	
Depth / Elevation	В	orehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material	Description	1	Dep (ft)
(feet)	/////	1	Type/ID		(ppiii)	Recover	Type	,		(ft)
								Wet, black, SAND (SP); fine to	medium sand	
†								11 ot, black, 67 in b (61 ), in b to	modiam odna	+
			S-7							
l Ť										T
1			0							1
+										+
30+			S-8							-30
†										Ť
			0					•		
								Wet, olive gray, clayey SILT (Ninterbeds	/IH); black sand	
1 1							Ш	interpeds		+
							Ш			
+			S-9				Ш			+
								Wet, black, SAND (SP); fine to	medium sand	
35+								,, (0. /,		-35
Ī				_						T
1				Temporary groundwater						1
				sample collected						
			S-10	using stainless steel retractable						+
				screen placed						
+				from 36 to 40' bgs. Sample-						+
				FB14-38-031111						
40+								Bottom of boring at 40' below	ground surface.	<del>-  </del> 40
1 1										1
+										+
†										+
45										1,5
45+										+45
↓										1
										+
+										+
†										Ť
Sa	ampler Ty	ype:	Р	ID - Photoionization	n Dete	ctor (He	eadspa	ce Measurement) Logged by	r: RRH	
O No F	Recovery			_	: Water					
	inuous C	ore		$\overline{}$	r Level			Approved	by: JJS	
				- vvate	LEVE	(410)		F1 A1	P O	
								Figure No	. B- 9	

### **RI/FS Extent of Solid Waste Probes**

	Aspe	C†			t Numb 0166	er	Boring Log  Boring Number  RP-01	Sheet 1 of 1	
Project Nar			I				Ground Surface Elev	N/A	
Location:	Seattle, WA							0.501.000 (ATD)	
Driller/Meth	nod: Cascade Drillin Method: Continuous Co		Push Probe				Depth to Water Start/Finish Date	2.59' BGS (ATD) 1/13/2011	
Depth / Elevation	Borehole Completion	Sample	Tests	PID (ppm)	Drive/ Recovery	Material	Description	1/10/2011	Dept (ft)
(feet)	Asphalt patch	Type/ID		(ррпі)	recovery	Type	Dense, very moist, slightly silty,	sandy GRAVEL	(π)
	Noprial pater						(GP-GM).	,	
†							Medium stiff moist, dark gray, sa	andy SILT (ML).	
_		S-1		0.0			Dense, moist, brown, slightly silt medium sand.	y SAND (SP-SM);	
	<u>V</u> 1/13/2011			0.0					
+							Dark black wood debris and bric	k fragments	+
							Medium stiff, very moist, dark gr		
+	Hydrated bentonite chip backfill  S-2						dilatancy.	o, c (), .op.u	+
_									_
5 +									<del> </del> 5
1				0.0					_
				0.0			Grades to soft.		
+									+
							Dense, moist, black SAND (SP).		$\dashv$
†									†
10-		S-3		0.0			Grades to medium dense.		10
+							Becomes wet.		+
									Ţ
1									1
		S-4		0.0					
+							Medium stiff, moist, gray SILT(N	IL); abundant	+
							seashells.	,	
15+							Bottom of boring at 15' below gr	ound surface.	15
1							Soil vapors were measured using analyzer, H2S meter, and PID:	g GEM 2000 gas	
							CH4: 0.3%		
+							CO2: 0.1% O2: 20.4%		+
							BAL: 79.2% H2S: 0 ppm		
+							PID: 0.0 ppm		+
†									<b>†</b>
								DED	
Sam  No Rec	pler Type:	PID	_			eadspa	ce Measurement) Logged by:	DFR	
Continu			$\nabla$	tic Water			Approved by	y: JJS	
			= vvat	er Level	(A1D)		Figure No.	B- 10	

	Mana	<b>~</b> 1					Boring Log		
	Aspe				t Numb	er	Boring Number	Sheet	
	OCON SULT			10	0166		RP-02	1 of 1	
Project Nai Location:	me: South Park Seattle, WA	Landilli					Ground Surface Elev	N/A	
Location. Driller/Meth	•	na IP/Direct I	Push Prohe				Depth to Water	2.4' BGS (ATD)	
	Method: Continuous Co		usiii iobc				Start/Finish Date	1/13/2011	
Depth /	Borehole Completion			PID	Drive/	Material			Dep
Elevation (feet)	Borenole Completion	Sample Type/ID	Tests	(ppm)	Recovery	Type	Description		(ft
							Dense, moist, slightly silty, sandy		
							Moist, dark gray, gravelly, sandy		
+	<u>∇</u> 1/13/2011	∑1/13/2011		0.0			Dense, moist, brown, SAND (SP) medium sand.	; trace silt, fine to	
†							Brick fragments.		$\overrightarrow{A}$
							Very moist, dark gray, slightly gra	avelly SILT (ML).	
†							Moist, dark gray SILT (ML); rapid	dilatancy.	Ť
5 +	Hydrated bentonite chip backfill								+ 5
†	S-2			0.0					Ť
†							Dense, very moist, black SAND (	SP).	†
†									†
+									+
10+		S-3		0.0					-10
†									+
+									+
+									+
		S-4		0.0					
+							Medium stiff, moist, gray SILT (M	IL).	+
5+							Bottom of boring at 15' below gro	ound surface.	<del> </del> 1
							Soil vapors were measured using		
+							analyzer, H2S meter, and PID:	<b>5</b>	+
							CH4: 0.2%		
+							CO2: 0.1% O2: 20.5%		+
							BAL: 79.4% H2S: 2.4 ppm		
+							PID: 0.0 ppm		+
+									+
_	pler Type:	PID				adspac	ce Measurement) Logged by:	DFR	L
O No Red	-			tic Water	Level		Approved by	: JJS	
Continu	uous Core		<u>▽</u> Wat	er Level	(ATD)		rr)		
							Figure No.	B- 11	

	Mana	<b>~</b> 1					Boring Log		
	Aspe				t Numb	er	Boring Number	Sheet	
	CONSULTI			10	0166		RP-03	1 of 1	
Project Nar ∟ocation:	me: South Park Seattle, WA	Lanuilli					Ground Surface Elev	N/A	
Driller/Meth		ng, LP / Direct P	ush Prohe				Depth to Water	2.2' BGS (ATD)	
	Method: Continuous Co		don't lobe				Start/Finish Date	1/13/2011	
Depth /	Borehole Completion			PID	Drive/	Material			Dep
Elevation (feet)	Boronolo Completion	Sample Type/ID	Tests	(ppm)	Recovery	Type	Description		(f
- - - -	∑1/13/2011	S-1		0.0		000000	Dense, moist, slightly silty, sand  Dense, moist, brown, slightly silt medium sand.  Brick and wood debris.  Soft, moist, gray-blue SILT (ML)	y SAND (SP-SM);	- - - -
5 +	Hydrated bentonite chip backfill	S-2		0.0			No recovery.		- - -
10-		S-3		0.0			Soft, very moist, gray SILT (ML).		-10
<b>T</b>		S-4		0.0			Dense, very moist, black SAND sand.	(SP); fine to medium	<b>T</b>
†							Medium stiff, moist, gray SILT (N	ΛL).	†
15+							Bottom of boring at 15' below gr Soil vapors were measured using analyzer and H2S meter: CH4: 0.3% CO2: 0.1% O2: 20.5% BAL: 79.2% H2S: 0 ppm		— 15 —
Sam	pler Type:	DID	Dhotoicai=-	tion Data	otor /U-	adana	ce Measurement) Logged by:	DFR	
No Rec		PID -				auspa	ce Measurement) Logged by:	DIN	
=	ious Core			ic Water			Approved by	y: JJS	
30.11.10	.550 00.0		<del>≚</del> Wat	er Level	(ATD)				

	Mana	<b>~</b> 1					Boring Log		
	Aspe				t Numb	er	Boring Number	Sheet	
Orginat Na	me: South Park			10	0166		RP-04 Ground Surface Elev	1 of 1 N/A	
Project Na Location:	Seattle, WA	Lanunn					Ground Surface Elev	IN/A	
Driller/Meth	•	na IP/Direct I	Push Probe				Depth to Water	1.5' BGS (ATD)	
	Method: Continuous Co						Start/Finish Date	1/13/2011	
Depth / Elevation	Borehole Completion	Sample Type/ID	Tests	PID	_ Drive/	Material	Description		Dep
(feet)	· ·	Type/ID	16313	(ppm)	Recovery	Type		andy CDAVEL (CM)	(ft
							Dense, very moist, brown, silty, s	andy GRAVEL (GIVI)	
+						9,0,0	Crushed red brick and wood debi	ie	+
	∑1/13/2011					$\bowtie$	Gradited fed blick and wood debi	10	
+		S-1		0.0			Moist, gray, slightly silty SAND (S	SP-SM): fine to	+
							medium sand, predominantly fine	i.	
+									+
+						1.1	Moist, dark brown SILT (ML); fred	uent brick and wood	+
							fragments.	•	
+	Hydrated bentonite	Hydrated bentonite chip backfill							- 5
	Criip backiii								
+		S-2		0.0			Wood fragments appear native		+
†									+
†									+
†							Thinly laminated silt layers		+
)+		S-3		0.0					-11
							Dense, moist, black SAND (SP).		
†									†
†									Ť
1									T
		S-4		0.0					
<b>T</b>							Medium stiff, moist, dark gray, sa	ndy SILT (ML).	$\top$
5+									<u> </u>
Ί [							Bottom of boring at 15' below gro		;
							Soil vapors were measured using analyzer and H2S meter:	GEM 2000 gas	
							-		
							CH4: 0.3% CO2: 0.1%		
							O2: 20.4% BAL: 79.2%		
1							H2S: 0.0 ppm		
1									1
_	ipler Type:	PID	_			eadspac	ce Measurement) Logged by:	DFR	
○ No Red Continu	covery uous Core		$\Box$	tic Wateı			Approved by	: JJS	
	JOGG OUIG		∑ Wat	ter Level	(ATD)			D 40	
							Figure No.	B- 13	

	Mana	<b>~</b> 1					Boring Log		
	Aspe				t Numb	er	Boring Number	Sheet	
	CONSULTI			10	0166		RP-05	1 of 1	
Project Nar ₋ocation:	me: South Park Seattle, WA	Lanunn					Ground Surface Elev	N/A	
_ocation. Driller/Meth	•	na I.P./ Direct F	Push Prohe				 Depth to Water	1.31' BGS (ATD)	
	Method: Continuous Co		usiii iobc				Start/Finish Date	1/13/2011	
Depth /	Borehole Completion	Sample		PID	Drive/	Material			Dep
Elevation (feet)	Borenole Completion	Type/ID	Tests	(ppm)	Recovery	Type	Description		(fi
						711/	Organic soil (TOPSOIL), with leave	ves.	
1							Light gray, silty GRAVEL (GM).		
	∑1/13/2011						Brown, gravelly SAND (SW); occ fragments.	asional brick	
1		S-1		0.0			-		
				0.0			Dense, moist, light brown SAND	(SP).	
1									
1									
	Hydrated bentonite chip backfill						Dark brown.		
_									١.
5 +									+ 5
	S-2						Medium stiff, very moist, brown S root zones and small rootlets.	SILT (ML); oxidized	
		S-2		0.0			Tool Zones and small rootlets.		
†									Ť
†									T
†							Dense, gray, slightly gravelly SAN	ND (SP).	+
0+		S-3		0.0			Very moist, light red-brown SILT	(ML).	1
†									t
†									t
†							Dense, very moist, black SAND (	SP).	+
		S-4		0.0					
+									+
5+							Bottom of boring at 15' below gro	ound surface.	<del> </del>   1
							Soil vapors were measured using		
+							analyzer and H2S meter:	j	+
							CH4: 0.2%		
+							CO2: 0.1% O2: 20.4%		+
							BAL: 79.3%		
+							H2S: 0 ppm		+
+									+
_	ppler Type:	PID				adspac	ce Measurement) Logged by:	DFR	
○ No Red	· ·			tic Water			Approved by	: JJS	
Continu	uous Core		∑ Wat	ter Level	(ATD)				
							Figure No.	B- 14	

	Mana	<b>~</b> ‡					Boring Log		
	Aspe				ct Numb	er	Boring Number	Sheet	
	Oconsulti			1(	0166		RP-06	1 of 1	
Project Name:	South Park	Lanatili					Ground Surface Elev	N/A	
ocation:	Seattle, WA	ID/Di	Decelo Decelo				Donth to Water	6 E' DOS (ATD)	
Driller/Method:	Cascade Drillin		Push Probe				Depth to Water	6.5' BGS (ATD)	
Depth /	od: Continuous Co			- DID	T 5 · /		Start/Finish Date	12/29/2010	$\overline{}$
Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description		Dept (ft)
-		S-1		0.0			Moist to wet, dark gray, slightly si GRAVEL (FILL).  Crushed rock and brick (FILL).  Moist to wet, gray-brown SAND (\$ medium sand.		
5 +	Hydrated bentonite chip backfill						Moist, gray, silty SAND (SM); trace Wet, dark brown, sandy, organic		- - - 5
+	∑12/29/2010	S-2		0.0			gravel.		+
+							Wood. Moist, gray, clayey SILT (ML); tra organics.	ce gravel; occasional	+
10-		S-3		0.0			Wet, gray, silty GRAVEL (GM).  Moist, gray, clayey SILT (ML); sca	attered organics.	+10 - - -
+							Wet, dark gray SAND (SP); fine to	o medium sand.	+
15-							Bottom of boring at 15' below gro Soil vapors were measured using analyzer:		15
							CH4: 00.4% CO2: 00.1% O2: 19.1% BAL: 80.5%		  -  -
Sampler		PID				eadspac	ce Measurement) Logged by:	AET	
No Recover			$\overline{}$	tic Wate			Approved by:	JJS	
Continuous	Core		<u></u> Wat	er Level	(ATD)				
							Figure No.	B- 15	

		<b>~</b> +					Boring Log		
	Aspe	CI			t Number		Boring Number	Sheet	
				10	0166		RP-07	1 of 1	
Project Name:	South Park	Landilli					Ground Surface Elev	N/A	
Location:	Seattle, WA	10.00	D 1 D 1				Donath to Water	FOLDOS (ATD)	
Driller/Method:	Cascade Drillin		Pusn Probe				Depth to Water	5.8' BGS (ATD)	
Depth /	: Continuous Co	re					Start/Finish Date	12/29/2010	$\overline{}$
Elevation (feet)	orehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Mate Recovery Tyl	erial pe	Description		De
	Asphalt patch					Α	sphalt.		
		S-1		0.0		S	Moist, brown, gravelly, silty SAN and; subangular gravel.  Moist, gray, gravelly, very sandy nedium sand; subangular grave	y SILT (ML); fine to	
5 -	Hydrated bentonite chip backfill ∑ 12/29/2010			0.0			Park gray.	J.	
-		S-2		0.0		N S	Moist, gray SAND (SP); trace si cattered organics.	ilt; trace gravel;	_ _ _
10-				0.0		M	Noist, dark brown, organic SILT	(OL); with wood debris.	
-		S-3		0.0					_
1				0.0		N O	floist to wet, gray, clayey SILT granics.	(ML); scattered	T
15+						Sa	Sottom of boring at 15' below good vapors were measured using nalyzer: CH4: 03.1% CO2: 00.8% D2: 18.6%		† <i>*</i>
							AL: 78.2%		+
Sampler Ty	rpe:	DIU	- Photoionizat	ion Deter	rtor (Heads	nace	Measurement) Logged by:	AET	$\perp$
No Recovery	p-5.	FID	_			pace	wicasurement) Logged by.	, <u></u>	
≥ INO INCOUVERY				ic Water	Level		Approved b	ov: JJS	
Continuous Co	aro		<u> </u> Wat	er Level				·,. • • •	

	Aspe				t Number 0166	Boring Log  Boring Number  RP-08	Sheet 1 of 1	
Project Name	: South Park	Landfill	I			Ground Surface Elev	N/A	
Location:	Seattle, WA						41 DOO (ATD)	
Driller/Method	d: Cascade Drilling thod: Continuous Co		Push Probe			Depth to Water Start/Finish Date	4' BGS (ATD) 12/29/2010	
Depth / Elevation	Borehole Completion	Sample	Tooto	PID	Drive/ Material		12/20/2010	Dep
(feet)		Type/ID	Tests	(ppm)	Recovery Type	Moist, dark gray, slightly silty, sa	ndy GDAV/EL (EILL)	(ft
-				0.0 0.0		Moist, dark gray, slightly gravelly abundant wood debris; occasion	, sandy SILT (ML);	<u> </u>
		S-1		0.0		2 inch layer of organic silt.		
†				0.0		Very moist, gray SAND (SP); tra	ce silt; fine to medium	†
+	∑ 12/29/2010			0.0		Moist, gray SILT (ML); scattered	organics.	/  -  -
5 +				0.0	0000	Wet, dark gray GRAVEL (GP); tr	ace silt; fine gravel.	+ 5
				0.0		Wet, gray, silty SAND (SM); fine		1
						Wet, gray with iron staining, clay sand; trace round gravel; scatter	ey SILT (ML); trace ed organics.	
<u> </u>		S-2		0.0		W		
10-				0.0		Wet, dark gray SILT (ML).		-10
						Wet, gray, clayey SILT (ML) to si	ilty CLAY (CL).	
-		S-3		0.0				_
15-						Bottom of boring at 15' below gr	ound surface	+15
						Soil vapors were measured using		
†						analyzer: CH4: 00.4% CO2: 00.1% O2: 19.1% BAL: 80.5%		+
Sample	er Type:	DID	- Photoionizat	ion Data	ctor (Haadana	ce Measurement) Logged by:	AET	
No Recov		FID	_	ic Water		,		
Continuou	-		_	er Level		Approved by	r: JJS	
_			vvale	J. LUVEI	(, (, 0)	Figure No.	B- 17	

	Mana	<b>~</b> 1					Boring Log	
	Aspe				t Numb	er	Boring Number	Sheet
	● CON SULT			10	0166		RP-09	1 of 1
Project Nar		Landfill					Ground Surface Elev	N/A
∟ocation: Driller/Meth	Seattle, WA	og ID/Direct F	Juch Droho				 Depth to Water	2.9' BGS (ATD)
	Method: Continuous Co	ng, LP / Direct F	rush Probe				Start/Finish Date	12/29/2010
Depth /				PID	Drive/	Material		
Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	(ppm)	Recovery	Material Type	Description	De (
-		S-1		0.0			Moist, dark brown, slightly silty, sl (FILL).  Moist to wet, dark brown, silty SA	
†	<u>√</u> 12/29/2010			0.0			gravel; fine to medium sand, grad scattered organics.  Moist, dark gray, slightly gravelly	es finer with depth;
5 +	Hydrated bentonite chip backfill			0.0			fine to medium sand.	+
+				0.0			Brick debris.	+
+				0.0			Moist, dark brown, organic SILT ( abundant wood debris.	OL); trace gravel;
10-							Moist, gray, clayey SILT (ML); trad	ce organics.
-		S-3		0.0				
				0.0			Wet, gray, slightly silty to silty SA	ND (SP-SM).
				0.0			Wood.	
15							Bottom of boring at 15' below gro	ound surface 1
							Soil vapors were measured using analyzer:	
_							CH4: 00.4% CO2: 00.1% O2: 19.1% BAL: 80.5%	+
							2. 12. 33.078	
								Ţ
Sam	pler Type:	PID ·	- Photoionizati	on Dete	ctor (He	adspac	ce Measurement) Logged by:	AET
O No Rec				c Water			,	LIC
=	ious Core			er Level			Approved by:	JJ2
			wat		· 5)		Figure No.	B- 18

	► A <sub>am</sub> a	\ <b>a</b> \					Boring Log		
	Aspe	CT			t Numbe	er	Boring Number	Sheet	
		TING		10	0166		RP-10	1 of 1	
Project N		Landfill					Ground Surface Elev	N/A	
ocation:	Seattle, WA							4 41 DOO (ATD)	
Driller/Me		ing, LP / Direct	Push Probe				Depth to Water	1.4' BGS (ATD)	
Sampling Depth /	Method: Continuous C	ore		1			Start/Finish Date	12/29/2010	
Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description Asphalt.		Dep (ft)
	Asphalt patch						Moist, brown, dark brown, and g	ray mottled slightly	
+				0.0			silty SAND (SP); fine to medium	sand.	+
	∑12/29/2010						Iron staining.		
+							non stanning.		+
		S-1		0.0					
1				0.0					1
		Ш							
1							Moist, brown/gray, slightly clayer gravel; occasional organics.	y SILT (ML); trace	
						gravor, coodoronar organico.			
1	Hydrated bentonite			0.0					+ 5
	chip backfill								
1									T
				0.0					
†									†
		S-2							
+									+
				0.0					
+									+
) 							No receiver		<del></del> 10
							No recovery.		
1									1
1									1
		S-3							
									L
T									T
_									
5+							Bottom of boring at 15' below gr	ound surface.	1:
							Soil vapors were measured usin	g GEM 2000 gas	
+							analyzer:	-	+
							CH4: 00.1%		
+							CO2: 00.1% O2: 19.1%		+
							BAL: 80.7%		
+									+
+									+
_	mpler Type:	PID		ion Dete	ctor (Hea	adspa	ce Measurement) Logged by:	AET	
_	ecovery			ic Water	Level		Approved by	v. JJS	
Contir	nuous Core		<u></u> Wat	er Level	(ATD)		Apploved b		
							Figure No.	B- 19	

	Mana	<b>~</b> 1				Boring Log		
	Aspe	CT			t Number	Boring Number	Sheet	
	CONSULT			10	0166	RP-11	1 of 1	
Project Name:	South Park	Lanoiiii				Ground Surface Elev	N/A	
Location:	Seattle, WA	an ID/Dinant	Duah Duaha			Donth to Water	1.35' BGS (ATD)	
Driller/Method:	Cascade Drillin		Pusn Probe			Depth to Water Start/Finish Date	12/29/2010	
Depth /	d: Continuous Co			- BIB	] n		12/29/2010	$\overline{}$
Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery Material Type	Description		Dep (fi
	Asphalt patch					Asphalt.		+
						Moist, gray, silty SAND (SM); tra	ace gravel; fine to	1
†	∑12/29/2010			0.0		medium sand.		+
+					1.[1]	Moist, gray SAND (SP); trace si	It; trace gravel; fine to	+
		S-1				medium sand.	, <b>.</b>	
+				0.0				+
+						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		+
	Hydrated bentonite chip backfill			0.8		Wood.		
5 +				0.0				$\downarrow$ ,
						Wet, dark brown, organic SILT ( abundant wood; petroleum odor	(OL); trace gravel;	
						abandant wood, poliolodin odol		L
T				25.0				
†								Ť
		S-2		0.0		Wet, gray SAND (SP).		7
+				0.0		Moist, dark brown SILT (ML).		+
				0.0				
+								+
o+						Clayey SILT.		+1
						Clayey CILT.		
+				0.0				+
				0.0				
1								1
		S-3						
						Moist to wet, gray SAND (SP); clamina.	occasional 1 inch silt	Γ
				0.0		iaiiiila.		
								T
45				0.0		Moist, brown SILT (ML); frequer	nt organics.	٦.
15+	1					Bottom of boring at 15' below g	round surface.	<del> </del> 1
						Soil vapors were measured usin	ng GEM 2000 gas	
+						analyzer:	•	+
						CH4: 01.5%		
+						CO2: 00.7% O2: 18.7%		+
						BAL: 78.9%		
+						Sheen on water level indicator a	after measuring water	+
					level ATD.	, , ,		
<b> </b>								+
Sampler T		PID				ce Measurement) Logged by:	AET	
No Recovery				tic Water	Level	Approved b	v. JJS	
Continuous C	Core		∑ Wat	ter Level (	(ATD)	Approved b	.,. <b>55</b>	
						Figure No.	B- 20	

	Mana	<b>~</b> ‡					Boring Log		
	Aspe	CT			t Numb	er	Boring Number	Sheet	
				10	0166		RP-12	1 of 1	
Project Name:	South Park	Landilli					Ground Surface Elev	N/A	
Location:	Seattle, WA	10/0: /					Donath to Motor	2 22' DCC (ATD)	
Driller/Method:	Cascade Drillin		Push Probe				Depth to Water	3.33' BGS (ATD)	
Depth /	d: Continuous Co	re		T			Start/Finish Date	1/17/2011	
Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description		Dep (ft)
(ISSI)	Asphalt patch					000000	Dense, moist, brown, slightly sil (GP-GM).	ty, sandy GRAVEL	
		S-1				D = Q 1 III	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 s Wet.	and.	- 5
+									+
Ī							Medium stiff, moist, gray-blue S	ILT (ML).	
							Dark brown, decayed wood chu	nks with SILT (ML).	
							Dense, wet, gray-blue SAND (S occasional wood fibers.	P); medium sand,	
10-		S-3					1" layer of wood fibers.		-10
							Medium stiff, moist, gray-blue S	SILT (ML).	
-							Grades to brown.		
		S-4					Wet.		_
15+							Bottom of boring at 15' below g	round surface.	15
+							Soil vapors were measured usir analyzer and H2S meter:		+
+							CH4: 0.2% CO2: 0.1% O2: 20.4%		+
+							BAL: 79.3% H2S: 0 ppm		+
+									+
Sampler -		PID	_			eadspac	ce Measurement) Logged by:	DFR	
No Recovery				tic Water	Level		Approved b	oy: JJS	
Continuous	Core		∑ Wat	er Level	(ATD)		Figure No.	B- 21	

### **RI/FS Sediment Samples**

		\\ana	٠ <u>٠</u>						Boring Log		
	•	<b>A</b> spe	CT				t Numb	er	Boring Number	Sheet	
		<b>OCONSULT</b>	ING			10	0166		SS-01	1 of 1	
Project Na	ame:	South Park	Landfill						Ground Surface Elev	N/A	
Location:		Seattle, WA									
Driller/Met		Aspect / Pistor	n Core Sam	pler					Depth to Water (ft BGS)	N/A	
Sampling	Method:								Start/Finish Date	12/6/2010	
Depth / Elevation (feet)	Bore	ehole Completion	Sample Type/ID	Tests		PID (ppm)	Drive/ Recovery	Material Type	Description		Dept (ft)
1 -		Formation heave packfill		SS-01-0-2- <sup>-</sup>	120610				Very soft, wet, black, organic MUC leaves, twigs, and rootlets; appare sheen	nt organic waxy	- 1 - 2
3 -									Occasional fine gravels, "swamp-li	ke" organic odor	- 3
3 -			S-1	SS-01-2-4- <sup>2</sup>	120610						- 3
4 +									Medium dense, wet, gray, sility SA Stiff, wet, olive-gray, slightly sandy		4
5 -				SS-01-4-6- <sup>-</sup>	120610						- 5
6 +	***										6
									Refusal at 6' below mudline.		"
									Approximately 1.5' of standing wat mudline.	er present above	
7 -											- 7
8 -											- 8
9 -											- 9
_	npler Typ	e:	F	_				eadspac	ce Measurement) Logged by:	DFR/RRH	
	covery			Ā	Static	Water	Level		Approved by:	JJS	
Contin	uous Cor	re		$\bar{\Delta}$	Water	Level	(ATD)		Applotod by.	<del>-</del>	
									Figure No.	B- 22	

		<b>A</b>							<b>Boring Log</b>		
		Aspe	CT				t Numb	er	Boring Number	Sheet	
		<b>UCONSULT</b>	ING			10	0166		SS-02	1 of 1	
Project Na	me:	South Park	Landfill						Ground Surface Elev	N/A	
Location:		Seattle, WA									
Driller/Metl	hod:	Aspect / Pisto	n Core Sam	pler					Depth to Water (ft BGS)	N/A	
Sampling I	Method	d:							Start/Finish Date	12/6/2010	
Depth / Elevation	В	orehole Completion	Sample	Tests		PID (ppm)	Drive/	Material	Description		Dep
Depth / Elevation (feet)  1 2 3 4	B	Formation heave backfill	Sample Type/ID	SS-02-0-2- SS-02-2-4-	120610	(ppm)	Drive/ Recovery	Material Type	Very soft, wet, black, organic MUCH leaves, twigs, and rootlets; apparer sheen  Occasional fine gravels, "swamp-like Fiberous texture, slightly silty	it organic waxy	Der (ft - 1 - 2 - 3 - 4 - 5
6 -				-					Refusal at 6' below mudline.  Approximately 1.5' of standing wate mudline.	er present above	6
7 -											- 7
8 +											- 8
9 +											<b>-</b> 9
Sam	npler T		F	PID - Photoid				eadspac	ce Measurement) Logged by: [	DFR/RRH	
Continu						Water			Approved by: C	JJS	
LI CONTINI	uous C	,OIE		$\bar{\Delta}$	Water	Level	(ATD)				
									Figure No.	B- 23	

		~					Boring Log		
	Aspe	:CT			t Numb	er	Boring Number	Sheet	
				10	0166		SS-03	1 of 1	
Project Na	ame: South Park	Landfill					Ground Surface Elev	N/A	
Location:	Seattle, WA								
Driller/Met	thod: Aspect / Pisto	n Core Sampl	er				Depth to Water (ft BGS)	N/A	
Sampling	Method:						Start/Finish Date	12/6/2010	
Depth / Elevation	Borehole Completion	Sample	Tooto	PID	Drive/	Material	Description		Dept
(feet)		Type/ID	Tests	(ppm)	Recovery	Туре	·		(ft)
1 - 2 - 3 - 4 - 5 -	Formation heave backfill	S-1 c	SS-03-0-2-120610 SS-03-2-4-120610 SS-03-4-6-120610				Very soft, wet, black, organic MUCl leaves, twigs, and rootlets; apparer sheen  Occasional fine gravels, "swamp-lik  Wet, olive gray, silty CLAY (CH)  Wet, dark gray, SAND (SP); trace of	et organic waxy	- 1 - 2 - 3 - 4
6 +	***	Щ							<u> </u>
							Refusal at 6' below mudline.		
							Approximately 1.5' of standing water mudline.	er present above	
7 +									<del> </del> 7
·									
8 +									- 8
9 +									- 9
9									T
$\overline{\perp}$			<b>.</b>					JED/DDU	
_	mpler Type:	PII	_			adspa	ce Measurement) Logged by: [	DFR/RRH	
	ecovery			Water	Level		Approved by:	JJS	
☐ Contin	uous Core			Level	(ATD)			-	
					•		Figure No.	B- 24	

### **RI/FS Monitoring Wells**

		<b>N</b> A						Boring Log		
		Aspec			-	t Numb	er	Boring Number	Sheet	
		Ocarda Daniel			10	0166		MW-29	1 of 1	
Project N		South Park L	anatili.					Ground Surface Elev	19.45' NAVD88	
ocation: Driller/Me		Seattle, WA Cascade Drilling	I D / Direct [	Puch Proha				Depth to Water	5.4' BGS (ATD)	
		d: Continuous Core		usiii iobe				Start/Finish Date	1/14/2011	
Depth / Elevation		Borehole Completion	Sample	Tests	PID	Drive/	Material	Description		De
(feet)		Concrete seal, 0'-2'	Type/ID	16515	(ppm)	Recovery	Type	Dense, moist, dark gray, slightly	veilty sandy CDAVEL	(1
+		0 00.10.10.10 000.1, 0 2						(GP-GM), occasional brick fragr		+
+			S-1					Dense, moist, brown, SAND (SI	); medium sand.	7
+		2-inch diameter								+
+		schedule 40 PVC casing, 0'-20'								+
5 🕂		<u>∑</u> 12/29/2010								+
+			S-2		0.0			Medium stiff, moist, dark brown	SILT (ML); occasional	+
+		Hydrated bentonite chips, 2'-18'						wood fibers; glass pieces at 6' Grades to light brown with frequ	, ,	+
+		Criips, 2-10								+
+								Grades to soft, dark gray, with b	plack wood fragments.	+
10+			S-3		0.0					+1
†								No wood, thin silt laminations.		+
†										+
†										†
†			S-4		0.0		<u> </u>	Davida variation in the state OANID	(OD): fire to me discuss	_†
15+								Dense, very moist, black SAND sand.	(SP); fine to medium	+1
†										Ť
1			0.5							Ť
Ť			S-5		0.0			Dense, wet, dark gray, very silty occasional thin sandy silt interb		Ť
20 +		#8/12 sand filter pack, 18'-30'						Occasional tilli sandy silt interb	eus.	_2
1		2-inch diameter	S-6		0.0					4
1		schedule 40 PVC 20-slot prepacked			0.0			Dense, wet, dark brown to black silty sand interbeds.	SAND (SP); with thick	+
+		screen, 20'-30'								+
25										-2
+			S-7		0.0					+
+								Dense, wet, dark brown to black		7
+								Dense, wet, black SAND (SP);	rine sand.	+
+		.]	S-8		0.0					+
30 +	11 -	PVC endcap Aluminum drive shoe						Bottom of boring at 10' below g		+3
+		Aldminum dive shoc						Soil vapors were measured using analyzer, H2S meter, and PID:	ng GEM 2000 gas	+
†										+
†								CH4: 0.2% CO2: 0.1%		†
†								O2: 20.4% BAL: 79.5%		†
35+								H2S: 0.0 ppm PID: 0.0 ppm		+3
Ţ								FF		
Ī										
I										
	mpler T		PID	- Photoionizat	tion Dete	ctor (He	eadspac	ce Measurement) Logged by:	DFR	
O No Re					tic Water	Level		Approved b	ov: JJS	
Conti	nuous C	Core		<u>▽</u> Wat	er Level	(ATD)		Approved t	.,. 000	
								Figure No.	B- 25	

		Mana						Boring Log		
		Aspe	CT			t Numb	er	Boring Number	Sheet	
		●CONSULTI			10	0166		MW-30	1 of 1	
Project N		South Park L	_andfill					Ground Surface Elev	17.60' NAVD88	
Location:		Seattle, WA	/// 0/					Donath to Motor	10 9! DCC (ATD)	
Driller/Me		Cascade Drilling		n Auger				Depth to Water	10.8' BGS (ATD)	
Depth /	Method	: Dames & Moore	e 					Start/Finish Date	6/15/2011	$\overline{}$
Elevation (feet)	Bo	orehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description	1 1 1 1 1 OANIE	Depth (ft)
-		Concrete seal, 0'-2'  2-inch diameter schedule 40 PVC						Loose, slightly moist, brown, tra (SP-SM); fine to medium sand,	ce to signtly sitty SANL predominantly fine.	)  -  -  -  -
5 -		casing, 0'-8' Hydrated bentonite chips, 2'-6'	S-1		0.0	1 1 1				_ - 5
		#2/12 sand filter pack, 6'-13'								
		2-inch diameter	S-2		0.0	1 1 1		Loose, slightly moist, brown, sli (SP-SM); with frequent, thin SIL	ghtly silty SAND .T (ML) lamina.	Ţ
10-		schedule 40 PVC 10-slot screen, 8'-13' \$\square\$ 6/15/2011\$	S-3		0.0	1 1 1		Loose, wet, brown, slightly silty fine gravel. Soft, wet, gray, clayey SILT (MI Loose, wet, black, slightly silty the Gravelly.	_).	10
		PVC endcap	S-4		0.0	2 1 1		Loose, wet, black SAND (SP) w pockets.	vith 2" gray SILT (ML)	
15-		Slough	S-5		0.0	3 4 6		Loose, wet, black SAND (SP); f	ine to medium sand.	<u>+</u> 15
								Bottom of boring at 16.5' below	v ground surface.	
Sa	mpler Ty	ype:	PID -	Photoioniza	tion Dete	ctor (He	adspac	ce Measurement) Logged by:	AET	
O No Re	ecovery OD D&N	√l Split-Spoon		▼ Stat	tic Water	Level	•	Approved b		
٠ ع						. ,		Figure No.	B- 26	

		<b>A</b>	_1					Boring Log		
		Aspec	CT			t Numb	er	Boring Number	Sheet	
		<b>■</b> CON SULTII	NG		10	0166		MW-31	1 of 1	
Project N	ame:	South Park L	andfill					Ground Surface Elev	17.58' NAVD88	
Location:		Seattle, WA								
Driller/Me		Cascade Drilling		m Auger				Depth to Water	11' BGS (ATD)	
	Metho	d: Dames & Moore	<b>;</b>					Start/Finish Date	6/15/2011	
Depth / Elevation (feet)	E	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description		Depth (ft)
-		Concrete seal, 0'-2'						Loose, slightly moist, brown, slig (SP-SM); fine sand.	htly silty 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 smedium sand.	SAND (SP); fine to	
10-		Hydrated bentonite chips, 2'-16' ∑_6/15/2011	S-3		0.0	4 4 3		Wet.		<del>-</del> 10
15-		#2/12 sand filter pack, 16'-26'	S-4		0.0	3 5 8		Stiff, wet, gray SILT (ML); with w Medium dense, wet, dark gray to trace silt; fine to medium sand.		15
20+		2-inch diameter schedule 40 PVC 10-slot screen, 18'-23'	S-5		0.0	4 6 8				-20 -
25 - - -			S-6		0.0	5 9 9		Bottom of boring at 26' below gr	round surface.	- -25 -
O No Re	mpler T		PID	_	ation Detec		eadspac	ce Measurement) Logged by:		
3.25"	OD D& Sample	M Split-Spoon			iter Level (			Approved by	y: JJS	
- King S	Jampie	!		- ۷۷2	ici revel (	(A1D)				

			1				Boring Log		
	Aspec	CT			t Numb	er	Boring Number	Sheet	
	OCON SULTIN			10	0166		MW-32	1 of 1	
Project Name:	South Park L	andfill					Ground Surface Elev	17.51' NAVD88	
ocation:	Seattle, WA	/ / / / / / / / / / / / / / / / / / / /					Double to Mater	10.00! hTOC	
Oriller/Method:	Cascade Drilling		tem Auger				Depth to Water	10.90' bTOC	
Denth /	od: Dames & Moore						Start/Finish Date	6/29/2011	$\overline{}$
Elevation (feet)	Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description		Depth (ft)
5	2-inch diameter schedule 40 PVC casing, 0'-20'  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.    ✓ 6/29/2011  Hydrated bentonite chips, 2'-17'  #2/12 sand filter pack, 17'-24'  2-inch diameter schedule 40 PVC 10-slot screen, 19'-24'	S-1 S-2 S-3 S-4 S-5 S-6	CH4: 0.1% CO2: 0.1% O2: 20.1% CH4: 0.1% CO2: 0.1% O2: 19.1% CH4: 0.1% CO2: 0.1% O2: 20.0%	0.0 0.0 0.0 0.0 0.0	2 2 2 2 4 1 1 2 5 5 2 3 4 1 2 2 3 3 4 10 12 13		Very loose, moist, dark red-brow (SP-SM); fine sand; glass shards and other refuse present  Very loose, very moist, black SA sand; no refuse present  Medium stiff, wet, dark blue-gray  Medium dense, wet, dark gray to trace silt; fine to medium sand.  Bottom of boring at 24' below gr Ecology Well ID Tag BHA-082	ND (SP); medium  SILT (ML)	-10 -15 -20 -25
Sampler  No Recover 3.25" OD D. Ring Sampl	y &M Split-Spoon	PIC	<u>▼</u> Stati	on Dete	Level	eadspac	ce Measurement) Logged by:  Approved by	DFR /: JJS	

		Mana	<b>_</b> _					Boring Log		
		Aspec	CT			t Numb	er	Boring Number	Sheet	
		<b>UCONSULTIN</b>	NG		10	0166		MW-33	1 of 1	
Project N		South Park L	andfill					Ground Surface Elev	17.81' NAVD88	
_ocation:		Seattle, WA						Donath to Motor	11.05' bTOC	
Driller/Me		Cascade Drilling		tem Auger						
Depth /	i Metho	d: Dames & Moore	; 			T		Start/Finish Date	6/29/2011	$\overline{}$
Elevation (feet)		Borehole Completion	Sample Type/ID	Tests	PID (ppm)	Drive/ Recovery	Material Type	Description		Depth (ft)
- - - - -		2-inch diameter schedule 40 PVC casing, 0'-20'	S-1	CH4: 0.1% CO2: 0.1% O2: 19.1%	0.0	2 2 2 4		Very loose, slightly moist, brown	I, Medium SAND (SF)	  -  -  -
5 + + + + + + + + + + + + + + + + + + +	I	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	S-2	CH4: 0.1% CO2: 0.1% O2: 20.0%	0.0	2 3 4		Very loose, moist, dark red-brov (SP-SM); fine sand; glass shard and other refuse present	vn, slightly silty SAND ls, burnt woods debris,	- 5 -
10-	I	10.5' to 11.5' bgs and hydrated for 1 hr before drilling to 24' bgs with 4.25" ID hollow stem augers.	S-3	CH4: 0.1%	0.0	8 16 20		Very loose, very moist, black SA sand; no refuse present	AND (SP); medium	-10
+	П	<u>∇</u> 6/29/2011	S-4	CO2: 0.1% O2: 20.1%	0.0	4 3 2		Medium stiff, wet, dark blue-gra	y SILT (ML)	-
+	I		O S-5		0.0	4 5 6		No sample recovery due to rock	in sampler	_
15+	I	Hydrated bentonite chips, 2'-18'	S-6		0.0	2 3 4		Medium dense, wet, dark gray to	o black SAND (SP);	+15 - -
20-		#2/12 sand filter pack, 18'-25'  2-inch diameter schedule 40 PVC 10-slot screen, 19'-25'						trace silt; fine to medium sand.		- - -20
25-		PVC endcap	S-7		0.0	10 12 12		Bottom of boring at 25' below g Ecology Well ID Tag BHA-083	round surface.	25
○ No Re ■ 3.25"	mpler 1 ecovery	/ :M Split-Spoon	PII	<u>▼</u> Stati	c Water	Level	eadspac	ce Measurement) Logged by:		_
<b>I</b> I D: 4	Sample	r			er Level	(ATD)				

### **RI/FS Gas Probes**



### Log of Boring: GP-33

Page 1 of 1

Client: South Park Property

Project: South Park Landfill

Location: South Park, WA

Logged By: Ken Scott

Farallon PN: 408-002

**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'

Sample Interval

Construction

Blow Counts 8/8/8

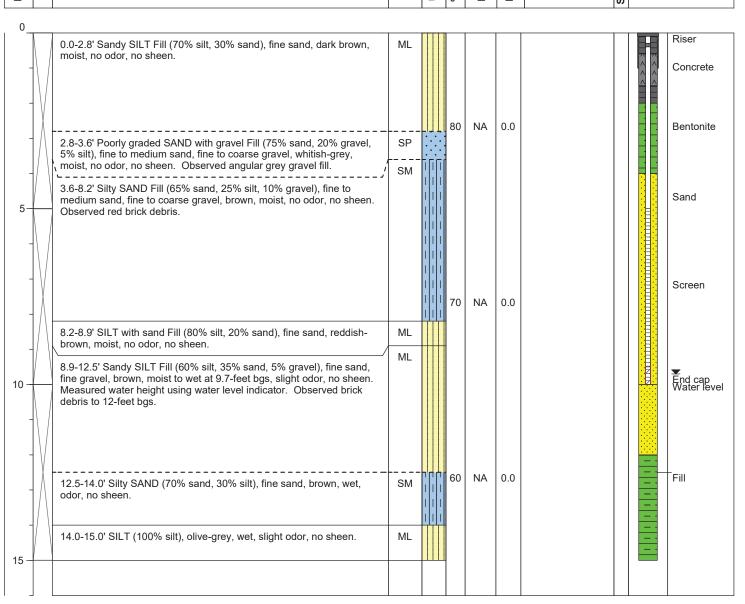
Box Conds 8/8/8

Box Conds 8/8/8

Box Conds 8/8/8

Box Conds 8/8/8

Construction
Details



Well Construction Information

Monument Type: 3.2' Riser Fisher Rooks

Casing Diameter (inches): 3/4" Surface Seal:
Screen Slot Size (inches): 0.010 Annular Seal:
Screened Interval (ft bgs): 5.0 to 10.0' bgs Boring Abandor

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-34

Page 1 of 1

Client: South Park Property

Project: South Park Landfill

Location: South Park, WA

**Farallon PN**: 408-002

Logged By: Ken Scott

**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

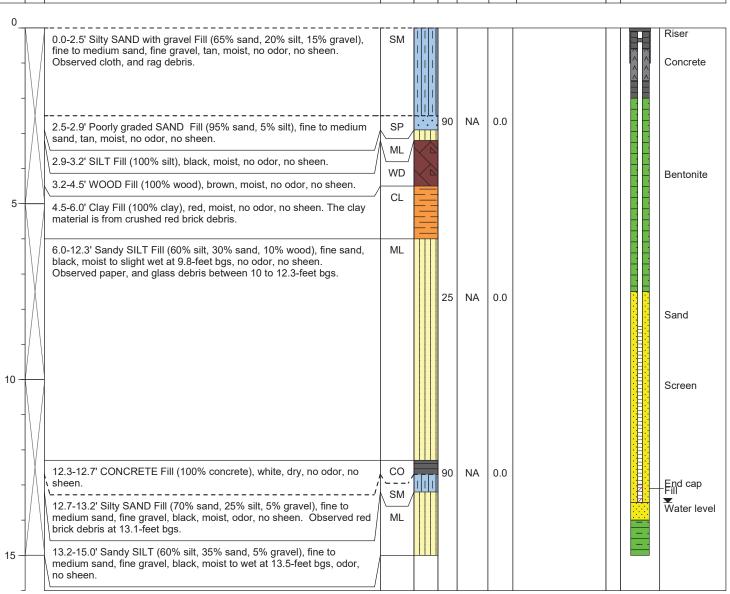
Sampler Type: 5' Macrocore

Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 13.5'
Total Boring Depth (ft bgs): 15'
Total Well Depth (ft bgs): 15'

ed By: Kell Scott

Sample Interval

Sample Analyzed



Monument Type: 3.6' Riser

Casing Diameter (inches): 3/4"

Well Construction Information
Filter Pack: 2/12 silica sand
Surface Seal: Concrete

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

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surreyord Location:



### Log of Boring: GP-35

Page 1 of 1

South Park Property Client: **Project:** South Park Landfill

Location: South Park, WA

**Farallon PN**: 408-002

Logged By: Ken Scott

Date/Time Started: 5/15/13 @ 13:50

Date/Time Completed: 5/15/13 @ 14:30 Geoprobe 6600 Equipment:

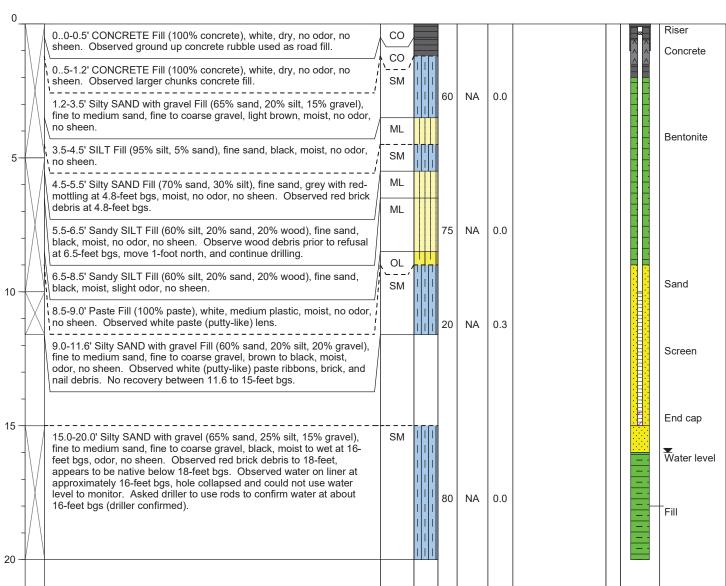
**Drilling Company:** Cascade Drilling Don Harnden **Drilling Foreman:** 

**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'

Depth (feet bgs.)	Sample Interval	Lithologic Description	nscs	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details



Monument Type: 4.0' Riser Casing Diameter (inches): 3/4" Screen Slot Size (inches): 0.010

10 to 15' bgs

Screened Interval (ft bgs):

Filter Pack: Surface Seal: **Annular Seal: Boring Abandonment:** 

**Well Construction Information** 2/12 silica sand Concrete Bentonite

Ground Surface Elevation (ft): Top of Casing Elevation (ft): Surveyed Location: X:NA Y: NA

NA NA



**Lithologic Description** 

### Log of Boring: GP-36

(mdd)

Page 1 of 1

South Park Property Client: **Project:** South Park Landfill

Location: South Park, WA

Farallon PN: 408-002

Logged By: Ken Scott

Date/Time Started: 5/15/13 @ 15:25 Date/Time Completed: 5/15/13 @ 15:50

Geoprobe 6600 Equipment:

**Drilling Company:** Cascade Drilling **Drilling Foreman:** Don Harnden

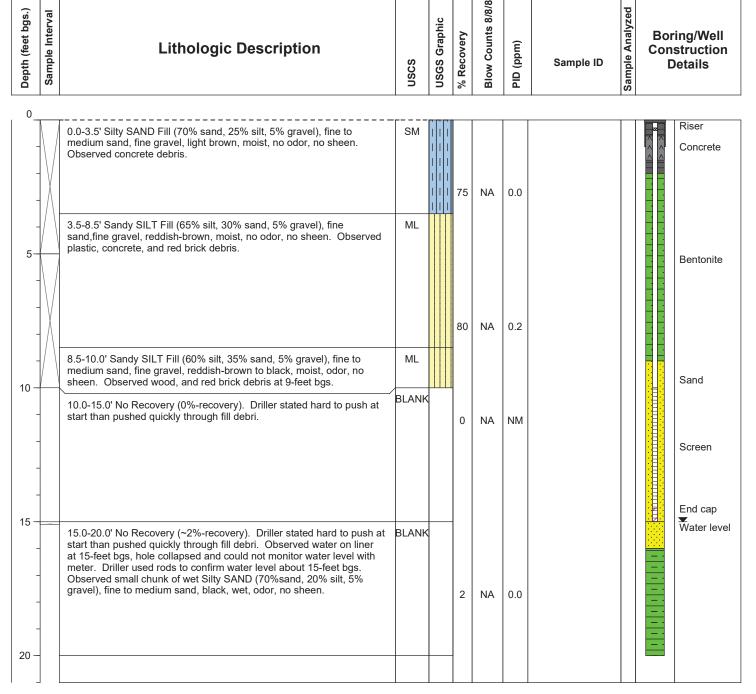
Sampler Type: 5' Macrocore

Sample ID

Drive Hammer (lbs.): Auto Depth of Water ATD (ft bgs): 15' Total Boring Depth (ft bgs): 20' Total Well Depth (ft bgs): 15'

**Drilling Method:** Direct Push

> Boring/Well Construction **Details**



**Well Construction Information** Monument Type: 4.0' Riser Casing Diameter (inches): 3/4" Screen Slot Size (inches): 0.010

10 to 15' bgs

Screened Interval (ft bgs):

Filter Pack: 2/12 silica sand Surface Seal: Concrete **Annular Seal:** Bentonite **Boring Abandonment:** 

NA Ground Surface Elevation (ft): Top of Casing Elevation (ft): NA Surveyed Location: X:NA

Y: NA

Well ID GP-37
Total depth: 10'
Sheet 1 of 1

Project name: South Park Landfill
Project number: 10-04850-000

Drilling Contractor: **ESN**Drilling method: **Push probe** 

Location: Transfer Station, landscape area
HEC rep: Bruce Carpenter

SE corner of South Park

Client: City of Seattle Sampling method: 5' core sample

PID (ppm)	Sampling type, interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
			1	SW	-	Top soil Brown gravelly SAND, fill, damp	concrete seal, 0' - 1'
	5'		2			Gray-Dark brown sandy GRAVEL, fill,	Hydrated bentonite chips,
0	core	90	3	GW		damp	1' - 2.5'
			4			Light-Brown sandy GRAVEL, fill, damp	3/4-inch dia. schedule 40
			5			Brown medium SAND, fill, damp	PVC casing 0-3'
			6	SP			#2/12 sand filter pack, 2.5' - 10'
			7				
0	5' core	60		SW	<b>V</b>	Gray gravelly SAND, fill, damp	3/4-inch dia. schedule 40 PVC
			8	СН	7.65 10/15/15	Brown silty CLAY, damp	prepacked screen 3'-8'
			9	СП		Gray-Brown mottled silty CLAY, damp	- PVC endcap
						Soil vapors were measured in bore hole using GEM 2000 Plus and Photoionization Detector (PID).  PID - 0 PPM CH <sub>4</sub> - 0% CO <sub>2</sub> - 0.1% O <sub>2</sub> - 21.1% H <sub>2</sub> S - 0 PPM  Ecology Well Tag ID BJM 004	

 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

Location: West Bldg, inside gate to east side
HEC rep: Bruce Carpenter

South Park Transfer Station

Sampling method: 5' core sample 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	2	SW SP		Asphalt 13.5'  Brown-gray gravelly SAND, fill, dry Light brown medium SAND, fill, dry Brown medium SAND, fill, dry	concrete seal, 0' - 1'  Hydrated bentonite chips, 1' - 3'  3/4-inch dia.
			5 5			Brown medium SAND, fill, dry	schedule 40 PVC casing 0 - 4'  #2/12 sand filter
0	5'	60	7	ML		Gray sandy, SILT, damp	pack, 3' - 10'  3/4-inch dia. schedule 40 PVC
	core		9	SM ML SM		Gray silty SAND, damp Gray sandy SILT, damp Gray silty SAND, wet	10 slot prepacked screen 4' - 9'
	5'		11 12	СН		Gray silty CLAY, wet, plastic	PVC endcap
0	core	70	13 14				
			<b>1</b> 5			Soil vapors were measured in bore hole using GEM 2000 Plus and Photoionization Detector (PID).  0 PID PPM  CH <sub>4</sub> - 0.01% CO <sub>2</sub> - 0.1% 0 <sub>2</sub> - 21.6%	
						H <sub>2</sub> S - 0.0% BAL 78.2 Ecology Well Tag ID BJM003	

Well ID GP-39 Total depth: <u>15'</u> 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: <u>5' core sample</u> Instrument(s): **GEM/PID** 

Location: N. loading dock - KIP HEC rep: Bruce Carpenter

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
0		80	1 2 3 4	GW/ SW		6" Concrete (loading dock)  Brown-Gray sandy GRAVEL, to gravelly SAND, fill, dry  4" zone black gravelly SAND, dry	Concrete seal, 0' - 1'  Hydrated bentonite chips, 1' - 4'
0		100	5 6 7 8 9	Fill		(original ground surface)  Buff colored cement kiln dust (CKD), fill, dry  damp to wet  Brown-black, sandy GRAVEL,	#2/12 sand filter pack, 4' - 13.5'  3/4-inch dia. schedule 40 PVC 10 slot prepacked
0		80	11 12 13 14 15	GW/ SW	10.6'	Brown-gray clayey SILT, (silt overbank deposit), wet	screen 5'-12.3'  PVC endcap  Hole caved in
			20			CH <sub>4</sub> - 0.3 CO <sub>2</sub> - 1.7 O <sub>2</sub> - 15.2 H <sub>2</sub> S - 0	

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: <u>5' core sample</u>

Instrument(s): **GEM/PID** 

Location: S. TPG-8 and NW of KMW-05

HEC rep: Bruce Carpenter

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
			1 2 3	SM	<b>_</b>	Asphalt 3"; Aggregate 6" Brown silty, SAND, fill, damp	Concrete seal, 0' - 0.5' Hydrated bentonite chips, 0.5' - 1.0
0		40	5	Fill SM	3.25'	Brown, silty SAND, damp groundwater encountered at 3.2' Buff colored CKD, fill, wet Brown-gray, medium SAND, wet	#2/12 sand filter pack, 1' - 9'
0		15	6 7 8			No recovery  Gray-brown clayey SILT, wood, (silt	3/4-inch dia. schedule 40 PVC 10 slot prepacked screen 1.3'-8.6'
			9	ML		overbank deposit) wet  Refusal at 9' bgs	PVC endcap
						$CH_4 - 0.8$ $CO_2 - 0.7$ $O_2 - 19.5$ $H_2S - 0$	

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: <u>5' core sample</u>

Instrument(s): **GEM/PID** 

Location: Adjacent to TGP-13

HEC rep: Bruce Carpenter

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
0		25	1 2 3 4	FILL	<b>Y</b> 4.3'	2" Asphalt 6" aggregate, silty, gravel  Buff colored cement kiln dust (CKD), dry  Brown silty SAND, fill, damp	Concrete seal, 0'-1' Hydrated bentonite chips, 1'-1.5'  #2/12 sand filter pack, 1.5'-10'
0		30	6 7 8 9	SM		groundwater encountered at 4.3'  Sand, fill/poor recovery	3/4-inch dia. schedule 40 PVC 10 slot prepacked screen 2.3'-9.6'
						(silt overback deposit)  CH <sub>4</sub> - 0.0  CO <sub>2</sub> - 0.0  O <sub>2</sub> - 20.2  H <sub>2</sub> S - 0	
	10\10-04850-00						

Well ID GP-42 Total depth: <u>13'</u> 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: <u>5' core sample</u>

Instrument(s): **GEM/PID** 

Location: Adjacent to TGP-22

HEC rep: Bruce Carpenter

PID (ppm)	Sampling interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
0		65	1 2 3 4 5	SP		4" concrete  Brown medium SAND, fill, damp	Concrete seal, 0' - 1'  Hydrated bentonite chips, 1' - 2'  #2/12 sand filter pack, 2' - 12'
0		50	6 7 8 9	SM FILL ML	7.62'	Brown-silty SAND, damp  Buff colored cement kiln dust, damp 3" black sandy silt, hydrocarbon, odor, damp  Gray medium SAND, fill, damp  Groundwater encountered at 9.5'  Dark brown clayey SILT,	3/4-inch dia. schedule 40 PVC 10 slot prepacked screen 4.2'-11.5'
0		35	11 12 13	ML		CH <sub>4</sub> - 0.2 CO <sub>2</sub> - 0.1 O <sub>2</sub> - 19.8 H <sub>2</sub> S - 0	PVC endcap  Hole caved in

Well ID GP-43 Total depth: <u>10'</u> 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: <u>5' core sample</u>

Instrument(s): **GEM/PID** 

Location: Adjacent to TGP-21

HEC rep: Bruce Carpenter

PID (ppm)	Sampling interval		Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Detail
			1			Grass, topsoil	Concrete seal, 0' - 1'
	$\setminus$		2	ML		Brown, gravelly SILT, fill, damp	Hydrated bentonite chips,
0		50	3	FILL		8" Buff colored cement kiln dust (CKD)	
			<u>4</u> 5	SM	•	Gray fine silty SAND, fill, damp	#2/12 sand filter pack,
			6	JIVI	4.90'	Groundwater encountered at 6'	2.0' - 10'
0		100	7	СН		Gray-brown clayey SILT, wet	3/4-inch dia. schedule 40 PVC 10 slot
		100	8	ML		Brown sandy SILT, wet	prepacked screen 2.6'-9.9'
	$/ \setminus$		9	OL		Dark brown clayey SILT, wood chips, organic matter (silt overbank deposit)	
			10			CH <sub>4</sub> - 0.0 CO <sub>2</sub> - 0.1 O <sub>2</sub> - 20.9 H <sub>2</sub> S - 0	PVC endcap



 Boring ID
 TGP-1

 Total depth
 10 feet

 Sheet
 1
 of
 1

Project name _S	South Park LF	Drilling Contracto	or ESN	Drilling method _ F	Push-probe rig
Project number	10-04850-000	Location No	rthern transect	Sampling method	5 ft core with plastic liner
Client City of	Seattle	easternmost loc	cation, west of KMW-06	Air monitoring (Y/N)	Yes
HEC rep. B	EC rep. Bruce Carpenter		mber 29, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	%	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
(ррііі)	iliterval	recovery	(leet)	D00)	group	Asphalt – 3", aggregate – 4", crushed rock
				1	SW/	Brown to black, gravelly SAND, brick, glass fragments, fill, dry
					Fill	, , , , , , , , , , , , , , , , , , , ,
	5-foot			2		
0	core	40				
	with			3		
	liner					
				4		
				5		Charred wood fragments
				6		Gray to black gravelly SAND, glass fragments, fill, damp
				- 0		
	5-foot			7		
0	core	30		,	GW/	2-inch zone of buff colored sandy GRAVEL, damp
	with			8	SW/	, , , ,
	liner				Fill	
				9		
				10	CH	Dark gray silty CLAY, damp
						Groundwater not encountered during drilling.
						Set bar hole probe at 9.5 ft bgs. Backfilled borehole with bentonite chips.
						Backfilled dorenote with bentonite chips.
						CH4: 0.2%
						CO2: 0.1%
						O2: 20.7%
						H2S: 0.0 ppmv



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 <u>10-04850-000</u>	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
(ррііі)	iiileivai	recovery	(leet)	BG3)	group	Asphalt – 2", aggregate – 3.5", crushed rock
				1	SM/Fill	Gray to brown silty SAND, fill, dry
					Fill	Buff colored, cement kiln dust, fill, dry
	5-foot			2		
0	core	60		2		
	with liner			3		
	IIIICI			4		
				·	SM/	Dark brown gravelly silty SAND, fill, damp
				5	Fill	
						Black silty SAND, charred wood, glass, plastic, fill, damp
				6		
	7 C .					
0	5-foot core	80		7		Dark brown silty SAND, brick and asphalt fragments, fill, damp
0	with	80		8		
	liner					
				9	СН	Gray silty CLAY, damp
				10		
						Groundwater not encountered during drilling. Set bar hole probe at 7.0 ft bgs.
						Backfilled borehole with bentonite chips.
						2 available outside with contained simple.
						CH4: 0.3%
						CO2: 6.6%
						O2: 0.6%
						H2S: 0.0 ppmv



 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 <u>10-04850-000</u>	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

	Sample		Water	Depth		
PID (ppm)	type, interval	% recovery	level (feet)	(feet, BGS)	Soil group	Soil description
(PP)			(1227)			Asphalt – 1.5", aggregate – 5.5", crushed rock
				1	SM/Fill	Brown silty SAND, fill, dry
	<b>5</b> 0				Fill	Buff colored, cement kiln dust, fill, dry
0	5-foot	70		2		
	core with	70		3		
	liner					
				4		
					SM/Fill	Brown sandy SILT, fill, damp
				5	SW/Fill	Gray to brown gravelly SAND, fill, damp
						Dark brown gravelly SAND, glass, brick fragments, trace of gravel,
				6		fill, damp
	5-foot			7		
0	core	15		,		
	with			8		
	liner					
				9	CII	C 'L CLAY 1
				10	СН	Gray silty CLAY, damp
				10		Groundwater not encountered during drilling.
						Set bar hole probe at 7.0 ft bgs.
						Backfilled borehole with bentonite chips.
						CT14 0 00/
						CH4: 0.0% CO2: 0.0%
						O2: 21.7%
						H2S: 0.0 ppmv



 Boring ID
 TGP-4

 Total depth
 10 feet

 Sheet
 1
 of
 1

Project name So	outh Park LF	Drilling Contra	actor ESN	Drilling method P	ush-probe rig
Project number	10-04850-000	Location	Northern Transect	Sampling method	5 ft core with plastic liner
Client City of S	Seattle	Westernmos	st location	Air monitoring (Y/N)	Yes
HEC rep. Bru	uce Carpenter	Date Sep	otember 29, 2015	Instrument(s)	PID, GEM Plus

				1		
PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
						Asphalt – 3.5", aggregate – 2.0", crushed rock
				1	SW/Fill	Brown to gray gravelly SAND, fill, damp
	5-foot			2		
0	core	60				
	with			3	SP/Fill	Brown medium SAND, fill, damp
	liner					•
				4		
				5		
					SW/Fill	Dark brown gravelly SAND, fill, damp
				6		
	5-foot			7		
0	core	30				Gray gravelly SAND, fill, damp
	with			8		
	liner					
				9		
					СН	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



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 <u>10-04850-000</u>	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
N				1	SW/Fill	Asphalt – 2.5", aggregate – 8.5", crushed rock  Brown gravelly SAND, brick, glass fragments, fill, damp
0	5-foot core with liner	70		3		Black gravelly SAND, pieces of rubber tire, glass, fill, damp
	inici			5		
				6	SM/Fill	Dark brown to black silty SAND, wood fragments, trace of gravel fill, damp
0	5-foot core with liner	70	$\overline{\nabla}$	8		Groundwater encountered during drilling at 8.5 feet
	inici		<u> </u>	9	СН	Dark gray silty CLAY, wet
						Set bar hole probe at 6.0 ft bgs.  Backfilled borehole with bentonite chips.
						CH4: 23.4% CO2: 19.5% O2: 0.0% H2S: 1.0 ppmv



 Boring ID
 TGP-6

 Total depth
 10 feet

 Sheet
 1
 of
 1

Project name South Park	LF Drilling Cor	ntractor <u>ESN</u>	Drilling method Pu	ush-probe rig
Project number 10-0485	0-000 Location	Second transect from north	Sampling method	5 ft core with plastic liner
Client City of Seattle	third locat	tion to west	Air monitoring (Y/N)	Yes
HEC rep. Bruce Carp	enter Date S	September 29, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
(66)			(100t)	1	<u> </u>	Asphalt – 3.0", aggregate – 4", crushed rock
0	5-foot core with liner	100		3 4 5	Fill	Buff colored cement kiln dust, fill, damp
0	5-foot core with liner	100	<u>▽</u> 6.99	6 7 8 9	CL	Ground water encountered during drilling at 6.5 feet  Static water level measured at 6.99 feet  Black gravelly CLAY, petroleum odor, wet
				10	СН	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



 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 <u>10-04850-000</u>	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
				1		Asphalt – 2.0", aggregate – 8", crushed rock
	4-foot				SWFill	Brown gravelly SAND, fill, dry
0	core with	75		2	SM/Fill	Dark brown silty gravelly SAND, fill, dry
	liner			3	ML/Fill	Gray to brown sandy SILT, trace of gravel, brick fragments, fill, dry
				4		
					SW/Fill	Brown gravelly SAND, trace of silt, fill, damp
				5		
	4-foot				ML	Gray clayey SILT, damp
0	core with	70		6	SM	Gray to brown silty SAND, damp
	liner			7		Dark brown silty SAND, damp
	2.6			8	MH	Brown clayey SILT, damp
0	2-foot	100		9		
0	core with	100		9		
	liner			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
						1125. 0.0 ppiniv



Boring ID TGP-8
Total depth 12 feet
Sheet 1 of 1

Project name	South Park LF	Drilling Con	tractor ESN	Drilling method Po	ush-probe rig
Project numbe	r 10-04850-000	Location	Second Transect from north	Sampling method	4 ft core with plastic liner
Client City	of Seattle	westernmo	ost probe	Air monitoring (Y/N)	Yes
HEC rep.	Bruce Carpenter	Date C	October 13, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Wate r level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	4-foot core with liner	100		2 3	Fill	Asphalt – 2.0", aggregate – 5", crushed rock  Buff colored cement kiln dust
0	4-foot core with liner	75	<u>▼</u> 6.5	5 6 7	Fill GW/Fill SW/Fill	Static water level measured at 6.5 feet Crushed brick Gray GRAVEL. Crushed rock, fill, damp Black gravelly SAND, rock fragments, fill, hydrocarbon stain, wet
0	2-foot core with liner	No Recovery	abla	9		Ground water encountered during drilling at 8.0 feet No recovery
0	2-foot core with	50		11	МН	Brown clayey SILT, wet
						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



 Boring ID
 TGP-9

 Total depth
 8 feet

 Sheet
 1
 of
 1

Project name	South Park LF	Drilling Contr	ractor ESN	Drilling method P	Push-probe rig
Project number	er 10-04850-000	Location	Third transect from north	Sampling method	4 ft core with plastic liner
Client City	of Seattle	west of TGF	P-10	Air monitoring (Y/N)	Yes
HEC rep.	Bruce Carpenter	Date Oc	tober 13, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Dept h (feet, BGS)	Soil group	Soil description
	1 foot			1	ML/Fill	Asphalt – 1.0", aggregate – 7", crushed rock Gray to brown sandy SILT, fill, damp
0	4-foot core	100		2		
	with				SP/Fill	Brown medium SAND, trace of gravel, fill, damp
	liner			3	ML/Fill	Gray sandy SILT, fill, damp
				4		2.5 inches Buff colored cement kiln dust, fill, damp
					SW	Gray gravelly SAND, trace of silt, fill, damp
				5		
	4-foot	50	<b>—</b> /			
0	core with	50	<u>▼/▽</u> 6.0	6		Static water level measured at 6.0 feet  Ground water encountered during drilling at 6.0 feet
	liner		0.0	7	SM/Fill	Gray silty SAND, trace of gravel, fill, wet
				8		0.1.1.1.1
						Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips.
						Bushined continue with contours simps.
						CH4: 0.2%
						CO2: 0.2%
						O2: 17.3% H2S: 0.0 ppmv
						1125. 0.0 pp.iiiv



 Boring ID
 TGP-10

 Total depth
 10 feet

 Sheet
 1
 of
 1

Project name South Park LF	Drilling Contractor ESN	Drilling method
Project number <u>10-04850-000</u>	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
	4-foot			1	SWFill	Brown gravelly SAND, trace of silt, charred wood, fill, damp
0	core with	75		2	ML/Fill	Brown sandy SILT, trace of clay, glass, fill, damp
	liner			3	SM/Fill	Tan silty SAND, fill, damp
				4		Wood fragments
	4.6.4			5		wood fragments
0	4-foot core	50		6	ML/Fill	Brown to black sandy SILT, glass, brick fragments, fill, damp
	with liner			7		
			<u>▼</u>	8		Trace of gravel
0	2-foot	100	8.10	0		Static water level measured at 8.10 feet
0	core with	100	$\overline{\triangle}$	9	SM/Fill	Groundwater encountered at 9.0 feet
				10		Black silty SAND, charred wood, fill, wet Brown clayey SILT, wet
	liner			10	СН	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



 Boring ID
 TGP-11

 Total depth
 12 feet

 Sheet
 1
 of
 1

Project name	South Park LF	Drilling Cor	ntractor ESN	Drilling method Pu	ush-probe rig
Project numbe	r 10-04850-000	Location Third transect from north		Sampling method	4 ft core with plastic liner
Client City	of Seattle	middle pro	obe	Air monitoring (Y/N)	Yes
HEC rep.	Bruce Carpenter	Date October 13, 2015		Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Wate r level (feet)	Depth (feet, BGS)	Soil group	Soil description
0	4-foot core with liner	95		1 2 3	SM/Fill ML/Fill Fill ML/Fill SM/Fill Fill	Asphalt – 1.0", aggregate – 7.0", crushed rock  3-inch Brown silty SAND, trace of gravel, damp,  3-inch Gray sandy SILT, fill, damp  Buff colored CKD, fill, damp  2-inch gravelly sandy SILT, fill, damp  Gray gravelly SILT, fill, damp  Buff colored cement kiln dust, fill, damp
0	4-foot core with liner	100	<b>▼</b> 7.0	5 6 7 8	SM/Fill Fill	2-inch Brown silty SAND, fill, damp Buff colored cement kiln dust, fill, damp Static water level measured at 7.0 feet
0	2-foot core with liner	No Recovery	abla	9		No recovery  Groundwater encountered during drilling at 10.0 feet
0	2-foot core with	50		11	ОН	Black clayey SILT, organic material, sheen, wet
						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



 Boring ID
 TGP-12

 Total depth
 10 feet

 Sheet
 1
 of
 1

Project name	South Park LF	Drilling Con	tractor ESN	Drilling method Pu	ush-probe rig
Project numbe	r 10-04850-000	Location	Middle transect, fourth from	Sampling method	4 ft core with plastic liner
Client City	of Seattle	easternmo	st location	Air monitoring (Y/N)	Yes
HEC rep.	Bruce Carpenter	Date O	ctober 13, 2015	Instrument(s)	PID, GEM Plus

	Sample	0.	Water	Depth		
PID (ppm)	type, interval	% recovery	level (feet)	(feet, BGS)	Soil group	Soil description
(11 /		,	/	- /	,	Asphalt – 1.0", aggregate – 6.0", crushed rock
				1	GW/Fill	4-inch Dark Brown sandy GRAVEL, fill, dry
					SW/Fill	Tan gravelly SAND, 2-inch piece of wood, fill, dry
	4-foot			2		
0	core	100				
	with			3	E.11	Buff colored cement kiln dust, fill, dry
	liner			4	Fill	
				4		Black silty SAND, wood fragments, fill, damp
				5	SM/Fill	Black Sifty SAND, wood fragments, fiff, damp
	4-foot			3	5101/1/111	
0	core	90		6		
	with	, ,			ML/Fill	Gray sandy SILT, fill, damp
	liner			7		
						Black silty SAND, organic material, damp
				8	SM	
	2-foot					
0	core	100		9		
	with					Gray silty SAND, damp
	liner			10	ОН	Dark gray silty CLAY, damp
						Groundwater not encountered during drilling.
						Set bar hole probe at 8 ft bgs. Backfilled borehole with bentonite chips.
						Backfilled borehole with bentonite chips.
						CH4: 2.1%
						CO2: 0.0%
						O2: 20.6%
						H2S: 0.0 ppmv



 Boring ID
 TGP-13

 Total depth
 8 feet

 Sheet
 1
 of
 1

Project name	South Park LF	Drilling Con	tractor ESN	Drilling method Po	ush-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 O	october 13, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Dept h (feet, BGS)	Soil group	Soil description
				200)		Asphalt – 1.0", aggregate – 5.0", silty gravel
				1	Fill	Buff colored cement kiln dust, fill, dry
	4-foot					
0	core	100		2		
	with					
	liner		_	3		S4-4;4 11 2-5 f4
			<u>▼</u> 3.5	4		Static water level measured at 3.5 feet damp
			3.3		SW/Fill	Gray gravelly SAND, damp
				5	5 11/1111	Gray gravery 511 (5), damp
	4-foot				SP/Fill	Gray medium SAND, fill, damp
0	core	100	<u>▽</u> 6.0	6		wet, ground water encountered during drilling at 6.0 feet
	with		6.0			
	liner			7		
				0		
			-	8		Set bar hole probe at 3.0 ft bgs.
						Backfilled borehole with bentonite chips.
						2 available with continue timps:
						CH4: 0.0%
						CO2: 0.0%
						O2: 20.9%
						H2S: 0.0 ppmv



Boring ID	TGP-14
Total depth	10 feet
Sheet 1	of 1

Project name South Park LF	Drilling Contractor ESN	Drilling method
Project number <u>10-04850-000</u>	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

Sample Water Depth PID type, % level (feet, Soil Soil description	
(ppm) interval recovery (feet) BGS) group	
Asphalt – 1.0", aggregate – 9.0", crushed rock	
SW/Fill Black gravelly SAND, fill, dry	
5-foot <u>2</u>	
0 core 80 Gray gravelly SAND, fill, damp	
with 3	
liner Fill 3-inch Buff colored cement kiln dust, fill, damp	
4 ML/Fill Black sandy SILT, brick fragments, fill, damp	
5	
SM/Fill 2-inch Gray silty SAND, fill, damp	
5-foot 7 CH/Fill Dark gray to black silty CLAY, organic material, fill, day	mn
0 core 80 ▼ SM/Fill Static water level measured at 7.50 feet	пр
with 7.50 8 Brown silty SAND, glass, plastic, brick fragm ents, fill, or	lamn
liner GW/Fill Ground water encountered during drilling at 8.00 feet	шпр
9 Gray to brown sandy GRAVEL, trace of silt, sheen, wet	
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	



 Boring ID
 TGP-15

 Total depth
 10 feet

 Sheet
 1
 of
 1

Project name South Park LF	Drilling Contractor ESN	Drilling method
Project number <u>10-04850-000</u>	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
(11)			(/	1	JF	Asphalt – 1", aggregate – 8", crushed rock
	5-foot			2	ML/Fill	Light brown sandy SILT, fill, damp
0	core with	75		3		Gray-brown mottled sandy SILT, fill, damp
	liner			4		
				-	OL/Fill	Dark brown-black clayey SILT, fill, organic material
				5	SM/Fill	Brown sandy SILT brick fragments, fill, damp Glass, with gravel
				6		5.11.5, g. 1. 1. 1.
	5-foot			7		
0	core	60			ML/Fill	Dark brown-black gravelly SILT, organic material, wood fragments,
	with		<u>▼</u>	8		Static water level measured at 8.00 feet
	liner		8.00	9		moist
				9		Groundwater encountered during drilling at 9.5 feet.
			$\overline{\nabla}$	10	ML	Gray-brown sandy SILT, wet
						Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips.
						backfilled objetible with bentonite emps.
						CH4: 5.7%
						CO2: 4.6% O2: 4.8%
						H2S: 0.0 ppmv
PID – photoi	onization det	ector	•	•	•	•



 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 <u>10-04850-000</u>	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
				1		Asphalt – 1", aggregate – 8", crushed rock
	5-foot			2	SW/Fill	Tan gravelly SAND, fill, damp
0	core with	80		3	Fill	Buff colored cement kiln dust, wood fragments, fill, damp
	liner				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
				6		Petroleum hydrocarbon odor
				0	ML/Fill	Dark brown clayey SILT, fill, damp
	5-foot		$\overline{\nabla}$	7		Groundwater encountered during drilling at 7 feet.
0	core with	60		8	SM/Fill	Black sandy SILT, organic material, wood fragments, fill, wet
	liner				ОН	Gray clayey SILT, organic material, wet
				9		,,
			<u>▼</u> 9.6	10		Static water level measured at 9.6 feet.
			<u>9.0</u>	10		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
DID 1	l ionization det	l .	l	l	I	I



Boring ID	TGP-17
Total depth	10 feet
Sheet 1	of 1

Project name South Park LF	Drilling Contractor ESN	Drilling method
Project number <u>10-04850-000</u>	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
(ррііі)	iiileivai	recovery	(leet)	BG3)	group	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
	5-foot			2		
0	core	75		_		
	with			3		
	liner					
				4		
					) (T. /E'11	20. 1 CH T 40D 11 1 CH T CH 1
				5	ML/Fill OL/Fill	2" tan sandy SILT, 4"Dark brown sandy SILT, fill, damp  As above, organic material, sticks, wood and few brick fragments
				6	OL/FIII	As above, organic material, sticks, wood and few blick fragments
			•	0		Static water level measured at 6.80 feet.
	5-foot		<u>▼</u> 6.80	7		
0	core	60				
	with			8		
	liner		$\overline{\nabla}$			Groundwater encountered during drilling at 9.0 feet
				9	SM/Fill	Dark gray silty SAND, trace clay, fill, wet
					ML	Brown clayey SILT, damp
				10		
						Set bar hole probe at 5.0 ft bgs. Backfilled borehole with bentonite chips.
						Backfilled borehole with bentomite emps.
						CH4: 1.4%
						CO2: 0.0%
						O2: 21.3%
						H2S: 0.0 ppmv
PID photo:		l		l		l



Boring ID TGP-18
Total depth 10 feet
Sheet 1 of 1

Project name	South Park LF	Drilling Contr	ractor ESN	Drilling method Po	ush-probe rig
Project numbe	r 10-04850-000	Location	Southern transect	Sampling method	5 ft core with plastic liner
Client City of Seattle		second pro	be from easternmost location	Air monitoring (Y/N)	Yes
HEC rep.	Bruce Carpenter	Date Oc	ctober 14, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
,			, ,	1		Asphalt – 1", aggregate – 9", sandy gravel
				1	GW/Fill	5" Brown-gray sandy GRAVEL, fill, damp
	5-foot			2	G W/I III	4" Black sandy GRAVEL, charred wood, fill, damp
0	core	100			ML/Fill	Gray sandy SILT, trace gravel, damp
	with			3		
	liner			4		
				4		Gray-brown sandy SILT, fill, damp
				5	SP/ML/Fill	2" Gray medium SAND lens, fill
					ML/Fill	Gray sandy SILT, fill, damp
				6	SM/Fill	Black silty SAND, trace gravel, wood fragments, and glass, damp
0	5-foot	90		7		
0	core with	90		8		
	liner			0		
	inici			9		
				10	СН	Gray-brown silty CLAY, damp
						Groundwater not encountered during drilling.
						Set bar hole probe at 8.0 ft bgs. Backfilled borehole with bentonite chips.
						backfilled dorenote with dentoffice emps.
						CH4: 2.9%
						CO2: 0.2%
						O2: 19.2% H2S: 0.0 ppmv
						1125. 0.0 ppinv
PID – photo	l ionization det	l ector	I	I I		ı



 Boring ID
 TGP-19

 Total depth
 10 feet

 Sheet
 1
 of
 1

Project name	South Park LF	Drilling Con	tractor	ESN	Drilling methodI	Push-probe rig
Project number	er 10-04850-000	Location	Southe	rn 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 O	ctober 14	, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
(ррііі)	interval	recovery	(leet)	D00)	group	Asphalt – 1", aggregate – 6.0", sandy gravel
				1	Fill	Buff colored cement kiln dust, fill, damp
						, , ,
	5-foot			2		
0	core	100				
	with			3		
	liner			4		
				4		
				5		
			1			
				6	ML/Fill	4" lens of dark brown SILT, fill, damp
					Fill	Buff colored cement kiln dust, fill, damp
	5-foot			7		
0	core	100				
	with			8		
	liner					
				9	ОН	Cobbles,
				10		Black silty CLAY, organic material, damp
			-	10		Brown silty CLAY, organic material, damp Groundwater not encountered during drilling.
						Set bar hole probe at 6.0 ft bgs.
						Backfilled borehole with bentonite chips.
						1
						CH4: 4.2%
						CO2: 0.0%
						O2: 20.4%
						H2S: 0.0 ppmv
DTD 1	ionization dete		l	I		



 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 <u>10-04850-000</u>	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
(PPIII)	intorvar	TOOOVOTY	(loct)	500)	group	Asphalt – 1", aggregate – 4", sandy gravel
				1	GP/Fill	4" Gray GRAVEL, fill, damp
					SW/Fill	4" Black gravelly SAND, fill, damp
0	5-foot core	100		2	SM/Fill	Gray silty SAND, trace gravel, fill, damp
	with liner	100		3	Fill	Buff colored cement kiln dust, fill, damp
				4	SM/Fill	Gray-brown mottled gravelly SILT, fill, damp
			▼	5		Groundwater encountered during at 5.0 feet.
			<u>▼</u> 5.4			Gray sandy SILT, trace clay, fill, wet. Static water level measured at
				6		5.4 feet
	5-foot			7		
0	core	80				
	with			8		Dark brown-black sandy SILT, damp
	liner			9	СН	Gray silty CLAY, damp
					ОН	Gray-brown clayey SILT, organic material, wood fragments
				10		
						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
						1125. 0.0 ppm



Boring ID _	TGP-21			
Total depth	10 feet			
Sheet 1	of 1			

Project name South Park LF	Drilling Contractor ESN	Drilling method
Project number <u>10-04850-000</u>	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
				1	GW/Fill	Brown sandy GRAVEL, fill, damp
	5-foot			2		
0	core	70			ML/Fill	Brown gravelly SILT, fill, damp
	with			3		Tan sandy SILT, damp
	liner				Fill	3" Buff colored cement kiln dust, fill, damp
				4	ML/Fill	3" Brown sandy SILT, fill, damp
			_	5	SM/Fill	Gray silty SAND, fill, wet, groundwater encountered at 4 feet
			<u>▼</u> 4.95	3		Static water level measured at 4.95 feet
			4.73	6		
					СН	Gray-brown clayey SILT, damp
	5-foot			7		
0	core	80				
	with liner			8		Duayra alayay SH T. dama
	imer			9		Brown clayey SILT, damp
				10		
						Set bar hole probe at 3.0 ft bgs. Backfilled borehole with bentonite chips.
						Backfilled boreliole with bentonite emps.
						CH4: 0.5%
						CO2: 0.1%
						O2: 20.8%
						H2S: 0.0 ppmv



 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 <u>10-04850-000</u>	Location Fourth transect from north	Sampling method5 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

					ı	
DID	Sample	0/	Water	Depth	Ca:I	
PID (ppm)	type, interval	% recovery	level (feet)	(feet, BGS)	Soil group	Soil description
(11 /		,	, ,	,		Asphalt – 1", aggregate – 4", sandy gravel
				1	GW/Fill	Brown sandy GRAVEL, fill, dry
					Fill	Buff colored cement kiln dust, fill, damp
	5-foot			2		
0	core	80	_	2		
	with		<u>▼</u> 3.0	3		Static water level measured at 3.0 feet
	liner		3.0	4	SW/Fill	Brown gravelly SAND, fill, damp, groundwater encountered at 4.0
				4	SW/FIII	feet.
			$\overline{\nabla}$		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
						1125. 0.0 ppinv



 Boring ID
 TGP-23

 Total depth
 15 feet

 Sheet
 1
 of
 1

Project name	South Park LF	Drilling Contra	actor ESN	Drilling methodF	Push-probe rig
Project number	er 10-04850-000	Location N	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 Octo	ober 14, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
(PPIII)	intorvar	rocovery	(1001)	200)	group	Asphalt – 1", aggregate – 4", sandy gravel
				1	GW/Fill	4" Dark brown gravelly SAND, fill, dry
						Light brown gravelly SAND, fill, damp
	5-foot			2		
0	core	70				
	with			3		
	liner				CL/Fill	6" Gray clayey SILT, trace gravel, fill, damp
				4	GC/Fill	Black –gray clayey GRAVEL, crushed rock, fill
					CN 4/E:11	D 11 '' CAND 1 11'16 ' ' ' ' ' '
				5	SM/Fill	Dark-brown silty SAND, glass and brick fragments, organic material, wood waste, fill
					NR	No Recovery
				6		
				7		
	5-foot core	NR		7		
-	with	INIX		8		
	liner			0		
	111161			9		
				10		N- Darana
				11		No Recovery
	5-foot		<u>▼</u>	12		Static water level measured at 12.00 feet.
0	core with	6	12.00	13		
	liner			13		
	IIIICI			14		
			$\overline{\nabla}$	17		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.
						GY14 4 00/
						CH4: 4.8%
						CO2: 1.7% O2: 0.3%
						H2S: 0.0 ppmv
						1120. Old Philit



Boring ID	TGP-24
Total depth	10 feet
Sheet 1	of 1

Project name South Park LF	Drilling Contra	actor ESN	Drilling method P	ush-probe rig
Project number <u>10-04850-000</u>	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 Oct	ober 14, 2015	Instrument(s)	PID, GEM Plus

PID (ppm)	Sample type, interval	% recovery	Water level (feet)	Depth (feet, BGS)	Soil group	Soil description
(PP)			(1001)	200)	g. 0 s.p	Asphalt – 1.0", aggregate – 4.0", sandy gravel
				1	SM/Fill	Light brown gravelly SAND, fill, damp
	5-foot			2		
2.4	core	60				
	with			3		
	liner				3.67 (2011)	W C I STY TO MY
				4	ML/Fill	4" Gray clayey SILT, fill
					SW/Fill	4" Black gravelly SAND, crushed rock, fill
				5	SM/Fill	4" Dark white specks, silty SAND, brick fragments, fill, damp
				6	SW/Fill	Black gravelly SAND, brick fragments, fill, damp
				0	Fill	4" Brick fragments, fill
	5-foot			7	SM/Fill	4" Brown silty SAND, fill
1.0	core	30		/	SIVI/TIII	T Blown sing SAND, iiii
1.0	with	30		8	Fill	3" Black charred wood
	liner				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
PID – photoi	onization det	l ector		l		



 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 <u>10-04850-000</u>	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
(ррш)	morvai	recovery	(loct)	1	group	Asphalt – 1.0", aggregate – 9.0", sandy gravel
	5-foot			2	SW/Fill	Light brown gravelly SAND, fill, damp
0	core with	80		3		
	liner			4	ML/Fill	Gray sandy SILT, fill, damp
					SW/Fill	Gray gravelly SAND, fill, damp
				5	ML/Fill	Gray sandy SILT, fill, dry
				6		
					SW/Fill	Black gravelly SAND, crushed rock, fill, dry
	5-foot			7	SP/Fill	4" Buff colored SAND, fill
1.4	core with	75		8		4" Orange-brown SAND, fill
	liner			8	SW/Fill	Brown-black gravelly SAND, fill, damp
	inici			9	Fill	Broken glass, nail, brick fragments, fill
				10		C = 1-4
						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
						1123. 0.0 ppinv
	ionization det					



 Probe ID:
 GP-24

 Total depth:
 10

 Sheet
 1
 of
 1

Kenyon Business Park between

Project name: South Park LF Drilling contractor: Cascade Location: truck bays A1/A2, 14' E.

Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details		
						Asphalt/crushed rock			Concrete seal, 0'-1'
	Hand dug		1	SM		Brown, silty SAND, brick fragments, fill, damp			0-1
	2 feet		2			Buff colored cement kiln dust, fill, damp			3/4-inch diameter schedule 40 PVC casing, 0'-5'
	2-foot	400	3						Hydrated
0	probe sample	100	4	Fill		Buff colored cement kiln dust, fill, damp			bentonite chips, 1'-4'
			5				mmmin		#2/12 sand filter pack, 4'-10'
0	4-foot probe	100	6						3/4-inch diameter schedule 40 PVC 10-slot prepacked screen, 5'-10'
	sample		7		ATD **	District Court of Court			55/55/1, 5 15
			8		7.0'	Black sandy SILT, brick fragments, 3-inch piece of rubber, fill, wet			
_	2-foot probe	No recovery	9	ML / Fill					
	sample		10						PVC endcap
			11			Bottom of boring at 10 feet below ground surface.  Soil vapors were measured in bore hole using			
			12			GEM 2000 gas analyzer CH <sub>4</sub> : 1.2% CO <sub>2</sub> : 0.1%			
			13			O <sub>2</sub> : 19.5% BAL: 79.2% H <sub>2</sub> S: 0.0 ppm			
			14						
			15						
			16						

<sup>\*</sup> Photoionization Detector

<sup>\*\*</sup> ATD – at time of drilling



 Probe ID:
 GP-25

 Total depth:
 10'

 Sheet
 1
 of
 1

Kenyon Business Park ~58' E. of

Project name: South Park LF Drilling contractor: Cascade Location: truck bay A10

Project number: 10-04850-000 Drilling method: Push probe HEC rep: B. Carpenter

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description			robe etails
						Asphalt / crushed rock			Concrete seal,
	Hand		1	SM		Brown silty SAND, brick fragments, damp			0'-1'
	dug 2 feet		2			Buff colored cement kiln dust, damp, fill			3/4-inch diameter schedule 40 PVC casing, 0'-5'
	2-foot		3						Hydrated
0	probe sample	100		Fill					bentonite chips,
			4						1'-4'
			5						#2/12 sand filter pack, 4'-10'
				ML		Brown sandy SILT, brick fragments, damp			3/4-inch diameter
	4-foot	00	6			Black silty SAND, concrete, wood, very damp,			schedule 40 PVC 10-slot prepacked
0	probe sample	60				fill			screen, 5'-10'
			7	SM / Fill	ATD **				
					7.0'				
			8				_		
				SP		Black medium SAND, wet	_		
0	2-foot probe	100	9			Gray-brown clayey SILT, organic material, wood, damp			
	sample			MH					D) (O l
			10			Different floring at 40 for the law mount			PVC endcap
			44			Bottom of boring at 10 feet below ground surface.			
			11			Soil vapors were measured in borehole using GEM 2000 gas analyzer.			
			12			CH <sub>4</sub> : 0.4% CO <sub>2</sub> : 0.1%			
			13			O <sub>2</sub> : 20.4% BAL: 79.1% H <sub>2</sub> S: 0.0 ppm			
			14						
			15						
			16						

<sup>\*</sup> Photoionization Detector

<sup>\*\*</sup> ATD – at time of drilling

		Mana	۔ ل	L					Boring Log		
		Aspe	C1	Γ		Project		er	Boring Number	Sheet	
						100	0166		GP-26	1 of 1	
Project N		South Park	Lar	ndfill					Ground Surface Elev	16.10' NAVD88	
_ocation:		Seattle, WA								0 FLDOO (ATD)	
Driller/Me		Cascade Drillin		Direct Pus	sh Probe				Depth to Water (ft BGS)	8.5' BGS (ATD)	
Depth /	Method	d: Continuous Co							Start/Finish Date	3/8/2011	
Elevation (feet)	В	orehole Completion	7	Sample Γype/ID	Tests	PID (ppm)	Drive/ Recovery	Materia Type	Description  Moist, gray, sandy, very gravelly	SILT (ML) with	Depti (ft)
		Concrete seal, 0'-1'	Ш						cobbles; poor recovery due to co	bbles	
1 -		3/4-inch diameter schedule 40 PVC casing, 0'-5'									- 1
2 -		Hydrated bentonite		S-1		0.0					- 2
3 -		chips, 1'-4'									- 3
4 -											- 4
5 -		. #2/12 sand filter pack, 4'-10'	П								- 5
6 -		3/4-inch diameter schedule 40 PVC									- 6
7 -		. 10-slot prepacked screen' 5'-10'							Moist, dark gray to black, SAND sand	(SP); fine to medium	7
8 -				S-2		0.0					- 8
9 -		∑3/8/2011							Wet Iron oxide staining		- 9
10-		PVC endcap							Bottom of boring at 10' below gr	ound surface.	10
11 -									Soil vapors were measured using analyzer:	g GEM 2000 gas	-11
12-									CH4: 00.0% CO2: 01.8% O2: 18.8% BAL: 79.4% H2S: 0.0 ppm		-12
13-									1125. 0.0 ррпп		-13
14+											<del>-</del> 14
Sa	mpler Tylecovery	l ype:		PIE	_	ation Detectatic Water		adspa	ace Measurement) Logged by:		
Conti		ore				ater Level (			Approved by	: JJS	



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

Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description			Probe Details
Hand		1			Gravel/fill			Concrete seal, 0'-1'
dug 2 feet		•			Olive gray sandy SILT, tr. clay, damp			3/4-inch diameter
2 1001		2						schedule 40 PVC casing,
								0'-9'
2-foot probe	100	3						Hydrated bentonite chips, 1'-7'
sample			ML					1 -7
		4						
		5						
4-foot probe	100	6	Fill		Concrete fill			
sample		7			Dark brown sandy SILT, glass, concrete, brick fragments, fill, damp			
					Refuse			#2/12 sand filter pack, 7'-14'
		8						paok, 7 14
		9	ML / Refuse					
4-foot		10						3/4-inch diameter schedule 40 PVC 10-slot prepacked
probe sample	100							screen, 9'-14'
		11						
					Black medium SAND, damp			
		12	CD.		wet			
2-foot		13	35	12.0				
probe sample	75							
		14	MH		Brown clayey SILT, damp			PVC endcap
					Bottom of boring at 14 ft below ground surface			
		15			Soil vapors were measured in borehole using GEM 2000 gas analyzer.			
		16			CH <sub>4</sub> : 0.6% CO <sub>2</sub> : 0.9% O <sub>2</sub> : 18.9% BAL: 79.6%			
	Hand dug 2 feet  2-foot probe sample  4-foot probe sample  4-foot probe sample	Hand dug 2 feet  2-foot probe sample  4-foot probe sample  4-foot probe sample  100  4-foot probe sample  100  2-foot probe sample  75	Interval dug 2 feet         Recovery         BGS)           2-foot probe sample         100         3           4-foot probe sample         100         5           4-foot probe sample         100         7           8         9         10           4-foot probe sample         10         11           12         12         13           2-foot probe sample         75         14           15         15         15	Interval         Recovery         BGS)         Group           Hand dug 2 feet         1         ————————————————————————————————————	Interval dug 2 feet         Recovery BGS)         Group (feet)           2-foot probe sample         100         3 ML           4-foot probe sample         5         Fill           7         8         ML / Refuse           4-foot probe sample         100         9         ML / Refuse           100 probe sample         10         The probe sample         10         The probe sample         ATD **           2-foot probe sample         75         13         The probe sample         The probe sam	Net	Net	Interval   Recovery   BGS    Group   (feet)   Description   The state of the sample   1

<sup>\*</sup> Photoionization Detector

<sup>\*\*</sup> ATD – at time of drilling



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

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description	Probe Details		
	Hand dug,		1			Grass/topsoil			Concrete seal, 0'-1'
	2 feet		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	100	3			Buff colored cement kiln dust, damp, fill material			Hydrated bentonite chips,
	sample		4						1'-5'
			5	Fill					
0	4-foot probe	75	6						#2/12 sand filter pack, 5'-12'
	sample		7						0/4: 1 1: 1
			8	ML /		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	100	9	Fill					0.000., 1
	sample	100	10		ADT **	Very dark brown-black medium SAND, wet			
0	2-foot probe	100	11	SP					
U	sample	100	12						PVC endcap
			13			Bottom of boring at 12 feet below ground surface Soil vapors were measured in borehole using			
			14			GEM 2000 gas analyzer.  CH <sub>4</sub> : 0.3%  CO <sub>2</sub> : 0.1%			
			15			O <sub>2</sub> : 20.5% BAL: 79.1% H <sub>2</sub> S: 0.0 ppm			
			16						

<sup>\*</sup> Photoionization Detector

<sup>\*\*</sup> ADT – at time of drilling



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

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description		robe etails
	Hand		1			Grass/topsoil		Concrete seal, 0'-1'
	dug, 2 feet		2	SM		Brown silty SAND, damp		3/4-inch diameter schedule 40 PVC casing,
0	2-foot probe	100	3	SM / Refuse		Brown silty SAND, broken glass, brick fragments, refuse, damp		0'-5' Hydrated
0	sample	100	4			Very dark brown to black, gravelly SAND, brick fragments, glass, damp		bentonite chips, 1'-4'
			5			Black gravelly SAND, brick fragments, wood, piece of a sneaker, refuse, damp		#2/12 sand filter pack, 4'-10'
0	4-foot probe	25	6	SW / Refuse				3/4-inch diameter schedule 40 PVC 10-slot prepacked
	sample		7					screen, 5'-10'
			8		ADT **			
0	2-foot probe	100	9	0.0	8.0'	Wood, window/door screen, fill, wet		
	sample		10	SP		Black medium SAND, wet		PVC endcap
			11			Bottom of boring at 10 ft. below ground surface Soil vapors were measured in borehole		
			12			using ĠEM 2000 gas analyzer.  CH <sub>4</sub> : 0.3%  CO <sub>2</sub> : 0.1%		
			13			O <sub>2</sub> : 20.5% BAL: 79.1%		
			14			H <sub>2</sub> S: 0.0 ppm		
			15					
			16					

<sup>\*</sup> Photoionization Detector

<sup>\*\*</sup> ADT – at time of drilling



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

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group	Water Level (feet)	Soil Description			Probe Details	
						Grass/topsoil			Concrete seal,	
	Hand dug		1			Brown fine silty SAND, tr. gravel, damp			0'-1'	
	2 feet		2						3/4-inch diameter schedule 40 PVC casing, 0'-5'	
	2-foot probe sample	80	3	3 4 SM					Hydrated	
0					ADT **				bentonite chips,	
			4						1'-4'	
						Black silty SAND, wet			#2/12 sand filter	
	4-foot probe sample	50	5						pack, 4'-10'	
0			6						3/4-inch diameter schedule 40 PVC 10-slot prepacked	
									screen, 5'-10'	
			7							
			8			Black fine to medium SAND, wet				
0	2-foot probe sample	50	SW							
			9	9						
									D) (O and leave	
			10	MH		Dark brown-gray clayey SILT, damp			PVC endcap	
			44			Bottom of boring at 10 ft. below ground surface				
			Soil vapors were measured in bor							
			12			using GEM 2000 gas analyzer				
						CH <sub>4</sub> : 0.3% CO <sub>2</sub> : 0.1% O <sub>2</sub> : 20.5%				
			13			BAL: 79.1%				
			14			H <sub>2</sub> S: 0.0 ppm				
			15							
			16							

<sup>\*</sup> Photoionization Detector

<sup>\*\*</sup> ADT – at time of drilling



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

PID (ppm)	Sample Type, Interval	% Recovery	Depth (feet, BGS)	Soil Group			Probe Details			
						Asphalt				Concrete seal,
	Hand dug,		1			Crushed rock, fill				0'-1'
	2 feet		2			Brown medium SAND, trace gravel, damp				3/4-inch diameter schedule 40 PVC casing, 0'-5'
0	2-foot probe sample	75	3		ADT ** 4.3'					Hydrated bentonite chips,
			4							1'-4'
0	4-foot probe sample  2-foot probe sample	100	5	SP						#2/12 sand filter pack, 4'-10'
			6			Brown medium SAND, trace gravel, wet	-			3/4-inch diameter schedule 40 PVC 10-slot prepacked
			7							screen, 5'-10'
			8	ML		Brown-black gravelly SILT, wet	-			
-						Gray to black pea gravel, fill, wet	1			
0			9	GP						
			10	ML		Dark brown gravelly SILT, wet	-			PVC endcap
			11			Bottom of boring at 10 feet below ground surface Soil vapors were measured in borehole using				
						GEM 2000 gas analyzer.				
			12			CH <sub>4</sub> : 0.3% CO <sub>2</sub> : 0.1% O <sub>2</sub> : 20.5% BAL: 79.1%				
			13			H <sub>2</sub> S: 0.0 ppm				
			14							
			15							
			16							

<sup>\*</sup> Photoionization Detector

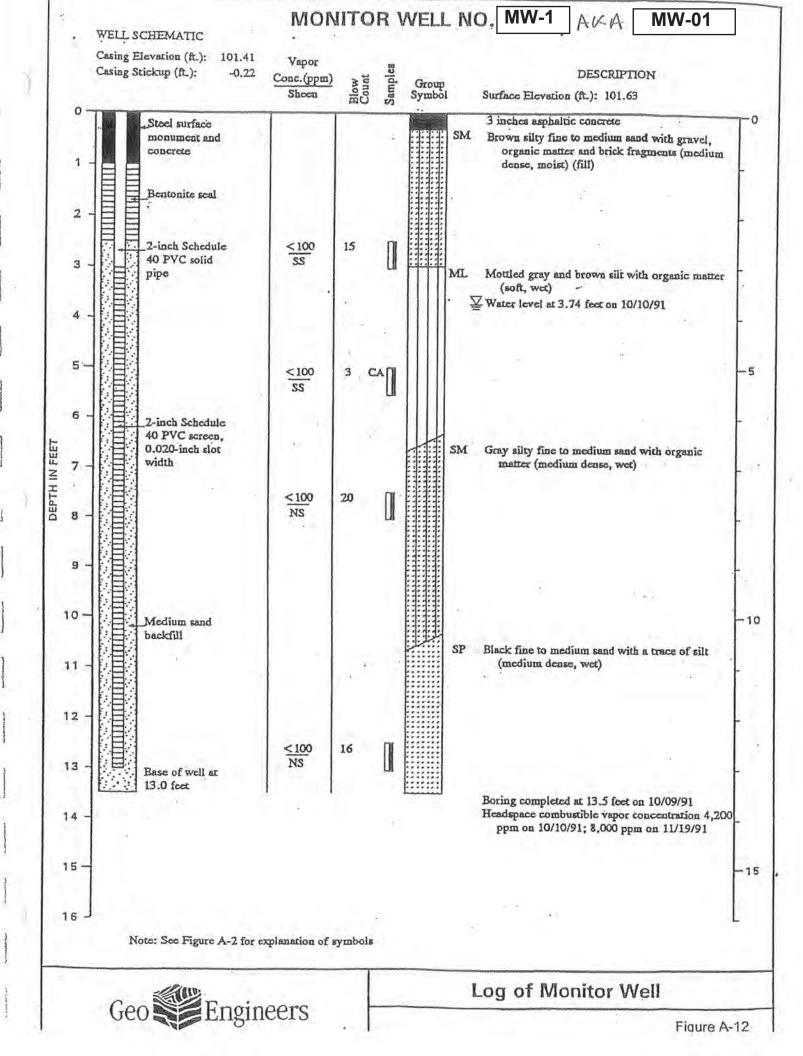
			<b>~ -</b>	l				Boring Log			
		Aspe			t Numb	er	Boring Number	Sheet			
<b>U</b> CONSULTING					10	0166		GP-32	1 of 1		
Project N		South Park L	andfill					Ground Surface Elev	13.22' NAVD88		
Location:		Seattle, WA	10/0: /	D 1 D 1				Donath to Motor	1 74! DCC		
Driller/Me		Cascade Drilling		Push Probe				Depth to Water	1.74' BGS		
Depth /		d: Continuous Cor			DID	D: /		Start/Finish Date	12/29/2010	$\overline{}$	
Elevation (feet)	В	orehole Completion	Sample Type/ID	Tests	(ppm)	Drive/ Recovery	Material Type	Description	2' to aloar apphalt and	Depth (ft)	
		Concrete seal, 0'-1'						Asphalt. Cored and hand dug to 2' to clear asphalt and soil to set monument.			
1 -		3/4-inch diameter schedule 40 PVC casing, 0'-5'					Wet, gray, gravelly SAND (SP); fine to medium sand.				
2 -		∑12/29/2010			0.0					- 2	
		Hydrated bentonite chips, 1'-4'									
3 -										- 3	
			S-2					Wet, dark brown, organic SILT (	OL).		
4 +		. #2/12 sand filter pack,						Wood and white ceramic debris		<b>+ 4</b>	
5 +		4'-10'								- 5	
								Green glass shards.			
6 +		3/4-inch diameter schedule 40 PVC			7.0					- 6	
_		: 10-slot prepacked screen' 5'-10'									
7 +			S-3		50.3			Wood debris		<del>+</del> 7	
8 -					30.3			Wet, white and black layered, un (FILL); rotton egg odor.	nknown fill material	- 8	
9 +					15.0			Moist, dark brown, slightly claye abundant organics.	y SILT (ML); with	- 9	
10		PVC endcap						Bottom of boring at 10' below g	round surface.	10	
11 +								Soil vapors were measured usir analyzer:	ng GEM 2000 gas	-11	
								CH4: 00.1%		''	
12-								CO2: 00.1% O2: 19.8% BAL: 80.1% H2S: 0.0 ppm		-12	
13-										-13	
14										4.4	
14+										-14	
Sa	mpler T	vpe:	PIF	) - Photoioniza	ation Dete	ctor (He	adsna	ce Measurement) Logged by:	AET		
	ecovery		1 11	_	atic Water		. aaopat	,			
	,			- 010				Approved b	LIO		

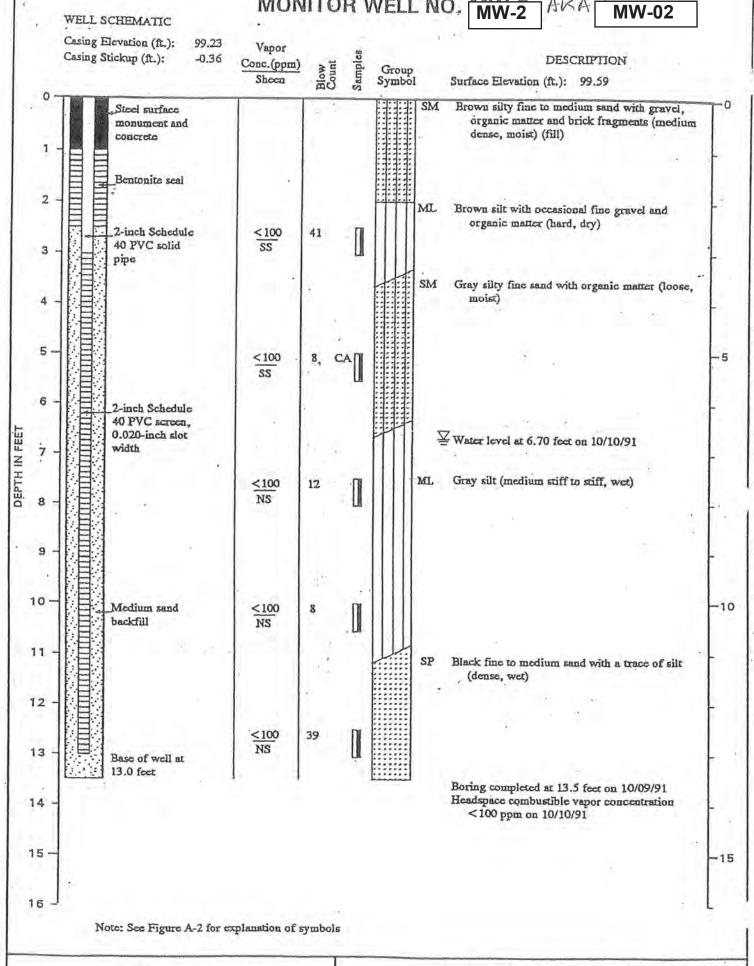
**Historical Monitoring Wells** 

ASSOCIATED SCIENCES, INC

1:1 66/62/21 EMP/DE1-19+

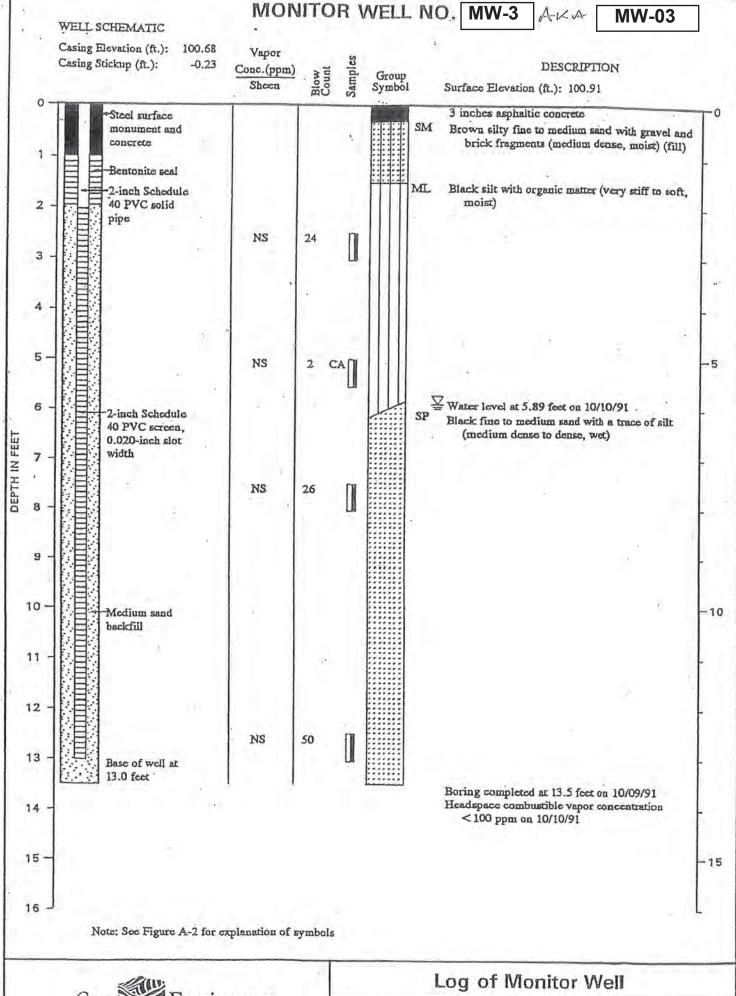
Vb9741b-25.dwg xrefs





Geo Engineers

Log of Monitor Well



200 Sieve		0.00.0	GW	Well-groded grovel and gravel with sand, little to no fines	Terms Describing Relative Density and Consistency  Density SPT <sup>(2)</sup> blows/foot  Very Loose 0 to 4
Number 20	than		GP	Poorly—graded gravel and gravel with sand, little to no fines	Grained Soils Loose 4 to 10  Medium Dense 10 to 30  Dense 30 to 50  Very Dense >50  Test Symbols  G = Grain Size  M = Maisture Conter
o	More Foorse F			Silty gravel and silty gravel with sond	Fine— Soft 2 to 4 C = Chemical DD = Dry Density Grained Soils Medium Stiff 4 to 8
50% <sup>(1)</sup> Retained	Gravels		GC	Clayey gravel and clayey gravel with sond	Stiff 8 to 15  Very Stiff 15 to 30  Hard >30
thon	Coarse 4 Sieve		SW	Well-graded sand and sand with gravel, little to no fines	Component Definitions  Descriptive Term Size Range and Sieve Number  Boulders Larger than 12"  Cobbles 3" to 12"
Soils - More	More of Number		SP	Poorly—groded sand ond sand with gravel, little to no fines	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)
ined	- 50% or n Passes		SM	Silty sond ond silty sond with grovel	Coarse Sand No. 4 (4.75 mm) to No. 10 (2.00 mm)  Medium Sand Fine Sand No. 10 (2.00 mm) to No. 40 (0.425 mm)  No. 40 (0.425 mm) to No. 200 (0.075 mm)  Silt and Clay Smaller than No. 200 (0.075 mm)
Coarse (	Sands— Fraction		sc	Clayey sand and clayey sand with gravel	(3) Estimated Percentage
Posses	ays than 50		ML	Silt, sandy silt, gravelly silt, silt with sand or gravel	Trace <5 Slightly Moist- Perceptable Few 5 to 10 moisture Little 15 to 25 Moist- Damp but no visible Some 30 to 45 water
More	ilts and CL Limit Less		CL	Clay of low to medium plasticity, silty clay, sandy or gravelly clay, lean clay with sand or	With Non-primary Coarse-grained Very Moist— Water visible but not free draining  Fine Content between 5% and 15%  Wet— Visible free water, usually from below water table
50% <sup>(1)</sup> or 200 Sieve	Silts Liquid Lim		OL	gravel Organic clay or silt of low to medium plasticity	Symbols  Sampler Blows/6" or portion of 6" Cement Grout
Soils - Number	d CLoys 50 or More		мн	Elastic silt, clayey silt, silt with micaceous or diatomaceous fine sand or silt	2.0" OD Sampler Type Split Spoon Description Sampler 3.0" OD Split Spoon Sampler Seal Filter Pack
e Grained	5 ==		СН	Cloy of medium to high plosticity, sandy or grovelly clay, fot clay with sand or grovel	Bulk sample Sampler Casing section  3.0" OD Thin Wall Tube Sampler Cosing or Hydrotip  Grab Sample (including Shelby tube) with Filter Page
Fine	Silts Liquid Lim		он	Organic clay or silt of medium to high plasticity	Portion not recovered  (1) Percentage by Dry Weight (2) (CDT) St. (4) Depth of Groundwater
Highly	Soils		PT	Peat, muck and other highly organic soils	(3) (ASTM D-1586)  (3) In General Accordance with  Standard Practice for Description and Identification of Soils (ASTM D-2488)
inless	preser	ited her	ein.	size, and plasticity estimate	al field and/or laboratory observations, which include density/consistency, es and should not be construed to imply field nor laboratory testing



roject Na	ame	South Park		al Landfill		BV9	1 1013
ocation		King County		ar marraini			THE PARTY OF THE P
Drilling Me	ethod	Hollow Sten		10.5" OD	6" ID		. Water Depth (ft bgs) 7
ampling	Method	3" diameter,	Split Sp	oon Sam	pler 1	40 lb h:	Start Date December 1, 1998
epth			T		Blows/		
feet		onstruction	Methane	S	6"		VIII. Grephic Description
N	Locki	ng 8" sleet monumen					FILL
	Bento 7 ft. by	nite chip seal	0%		4666		SANDY SILT; brown; some rounded gravel and brick; moist, firm no odors or discoloration (ML)  SAND with SILT; brown; moist, loose (SM)  - wood debris
0	2" ID S	bgs 12/10/98 CH 40 PVC Riser	0%		31 50 511 10 564		SILT; dark gray to black; brick with wood fibers; hard to firm; petroleum-like odor, wet, sheen on sample (ML)  RECENT ALLUVIUM  SILT; brown; some wood debris; moist, firm (ML)
Sa	mpler Typ				Lab Te		Logged by: RSB
	] 3" Spli ] No Re	l Spoon Sample covery	r		P - Pe	emical Pr rmeability bisture Co Vater Lev	Approved by: 335

Project N	ame	South Park					97041	1,5	The second secon	-	7-04 2 of 3
ocation	4,110	King County							Surface Elev		20.15' NAVD
Orilling M	athad	Hollow Sten		F" OF	וויישע				Water Depth		_7
		2" diameter	Call Car	7.5 UL	טו טוי	40 11 1			Start Date		mber 1, 1998
Sampling	Method	3" diameter,	Spiit Spor		1	T	7	er	Finish Date	Decei	mber 2, 1998
Depth feet	Well (	Construction	Methane	S	Blows/	Sample ID	Mtl. Graphic		Des	cription .	
**					11	-	1111	SAND: dark o	ray to black; fine to	medium s	and, interbedded silt
(0.0)	Ř .		1 1		50 50/5"			laminae, som	e wood; wet, mediu	m dense t	o very dense (SM)
2-2-7	( 7			- 11							111
\$ T	Ť	-	1 1	H							
3	3		1 1								
Y (\$				-	- :						
	Pant	autia al popr	- 1		5						
	welgi	onite slurry, 30% by	0%	- 11	6						
				- 11							
	1 4			Н							
- 11			1 1								
25			1 3			1					
- 10	000										
9.8	100										1
	(8)			- 40					0		y y
8.0				- 1	/						Y
0.3				1		) I					
	8 8			1	1.0						
			335 all	- 11	21						
- 85	100		0%	- 11	50/4"						
	0.3			Ш	4	/					
	0.0										
- 90 8	1/4			- 1.1							
0	10				1						
	X 3			- 11							
14				- 11							
- 10		E			. 11						
1.3	. 8			11							
100	ON .				- 1						- 3
	44		ly II	П	5	4					
	23		0%	111	21						
- 100			0.0	111	16						
- 12				Щ	- 4						
								<ul> <li>grades to gra</li> </ul>	y sandy silt		
.											
5			- 1	m	14						
				111	42 36						
	Bento	nite chips		111	30						
				Щ							
	睭										
					75.		1111				
	Ent-	Pack, 10 x 20			24			grades to fine	gray sandy silt		
		edo Silica Sand	0%		28 21						
1 3					30						
(3)				1							
[7]											
1:1	l- l	- CTV				1	ШЦ				
1	44	/pe (ST):			Lab T		)ranca'		Logged by		
ı	-	lit Spoon Sample	T			nemical F ermeabilit		es	Approved t	y: JJ	S
1	No Re	ecovery			M-M						

The state of the process of the state of the process of the proces	Depth well Continued on the state of the sta	Location Drilling I	Method Hollow Stem	Auger	10.5" OE	D/6" ID		Water Depth Start Date		20.15' NAVD ( 7 ber 1, 1998
Well Construction  Methane  T  Filter Pack, 10 x 20 Colorado Silica Sand  O%  Well Screen 2" ID SCH 40 PVC, 0.01" slot size  Threaded and cap, 2" ID SCH 40 PVC SCH 4	Well Construction  Methans  S Blowd  O'B D Description  Oraphic Complete  Oraphic Complete  Oraphic Complete  Oraphic Complete  Filter Pack, 10 x 20  Joines S Bload Band  O'S J S S S S S S S S S S S S S S S S S S		ig. Method 3" diameter,	Split Sp	oon Sar			Finish Date		
Filter Pack, 10 x 20 Colorado Silica Sand  0%  Weil Steen 2" ID SCH 40 PVC, 0.01" slot size  17  Threaded end cap, 2" ID SCH 40 PVC Better Description and well at 50.59  Bottom of boring aid depth 50.59 feet. Monitoring well installed to depth 50.59 feet. Soil sampler driven using 140-pound hammer failing 30-inches.	Filter Pack, 10 x 20 Collands Stice Sand  0%  Well Senson 2" ID SDN 46  YOU, B.B.T aboutste  17  This stided and only 2" ID SDN 40 PVC.  BOTH AD THE STUARINE DEPOSIT  If flagments; medium dense, wet  Bottom of boring at depth 50,59 feet. Monitoring well installed to depth 50,59 feet. Monitoring well installed to depth 50,59 feet. Sold sampler driven using 140-pound hammer falling 30-inches.		Well Construction	Methane	I S			Des	cription	
		0	Well Screen 2" ID SCH 40 PVC, 0.01" slot size  Threaded end cap, 2" ID SCH 40 PVC Bottom of boring and well at	0%		22 36 30	SILTY SAND; of fragments; med	ESTUARINI lark gray; fine to m lium dense, wet	E DEPOSIT edium silty s	and with shell
	Sampler Type (ST): Lab Tests: Logged by: RSB	Se	ampler Type (ST):			1,45.7	1			

oject Name cation illing Method ampling Method	South Park (				200	97041	MW-6 AK	M I IVIVV-IIIA I I I I I I I I I I I I I I I I I
cation illing Method			ai Landi	ill			Surface Eleva	
	King County						Water Depth	
mpling Method	Hollow Stem	Auger	10.5" O	D/6" ID			Start Date	December 3, 1998
	3" diameter,					nammer	Finish Date	December 3, 1998
plh				S Blows/	Sample	T		
		The state of the s		T 6"	1D	Graphic		1.1.1.1
Bent Park Park Park Park Park Park Park Park	construction ing, 8" staet monument crete seal  fit bgs 12/10/98 conite chip seal  fit bgs 12/10/98 conite slurry, 30% by ht  SCH 40 PVC Riser	O%				Graphic  GRAVE SILT; b  no odor  SILT; g  odors o	EL; angular (GP) rown; trace gravel, some rs or discolorations (ML) ray/brown; trace gravel; vir discoloration (ML)	cription  ILL  fine to medium sand; moist, soft;  ery moist, high plasticity, firm; no  ALLUVIUM icity, firm; no odor or
Sampler T	ype (ST): olit Spoon Sample	0%		C-0	Tests: Chemical Permeabil	Properties	dark gray to black; fine to o dense; no odors or disc Logged by Approved	r. RSB

\*

Project N	ame		NCES, I			BAS	7041		MW-6 AK	A Committee of the Comm	
Location	ante	South Park		anotili					Surface Elev	ation	17.35' NA
	athed	King County		TI OD	011.10				Water Depth	(ft bgs)	11,6
Drilling M		Hollow Sten	Calla C	00/	ם וח	40.0			Start Date	Decemb	er 3, 1998
	Method	3" diameter,	Split Spoor	Sam			amme	er ·	Finish Date	Decemb	er 3, 1998
Depth feet	Well (	Construction	Methane	S	Blows/	Sample	MII. Graphic		Des	cription	
1					,	-	3 2 4 1				
				Н	6						
~ (2)	12.5		*	- 111	26	V 3					
- J.	W.			- 111	50/5"	1					
- 11		onite slurry, 30% by	1 1	Щ							1
- 83	weigh	ht		H							
_			000		14 22	30					
0.7		-47	0%		34						
_											
	A. S.						32	14			
-25	6/2						100				
23											
	Bento	onlie chips				1				11	
					1						
- 1	888		k R								74 E.
				1	14			ATIES T. T. T.			
- 13			0%		14 33			SAND; black; fine aminations and	e to medium, with	occasional li	ght gray silt
			070		50			77,12	acario, uci		
-  :				Щ	. 1						1
							3.7				
-30							255				
									1.67		
											4
		2749	+ /								
											¥1
I E		Pack, 10 x 20 ado sílica sand					7,0				141
				T	5	1	- 72				1
			0%		23 46						**
					40	1					
35		creen 2" ID SCH 40 0.01" slot size		Н			20				
		1 0101 0140									
· [:, ]	je.]										
		=		.		1					
						1	250				
						1					10
月					5	1					
目			0%		35	1					
						1	4.				4.
	Thread	ed end cap 2" ID				- 5	5				
	illead	en eine cap Z. ID				1					
Sar	mpler Typ	pe (ST):			Lab Te	sts:		-	Logged by:	RSB	
	3" Split	t Spoon Sampler			C - Ch	emical Pi	opertie	s	Approved b		
	No Re	covery			P - Per	meability isture Co			, ipproved b	, 000	
	-				VI - 1010	isture Co	ment	e of Measuremer			

Project N	Company of the second	Custodial Land			200	7041		MW-6 AKA		3 of 3 7.35' NAVD
Location			1111			-		Water Depth (ft	-	1.6
Drilling N		n Auger 10.5"	OD/6'	'ID					The state of the s	The state of the s
	Method 3" diameter				40 lb b	amm	er		December	
Depth	g weined o diameter	T	TI	ows/		T	CI	rinish Date	December	3, 1998
feet	Well Construction	Methane		6"	Sample	MII. Graphi	2	Descrip	illon	
-45	Filter Pack, 10 x 20 Colorado Silica Sand	0%		7 7 7 7 17				ist, stiff, high plasticit	y (ML)	
-55							Bottom of borin of 40 feet. Soil inches.	g at depth 50 feet. N samples driven usin	Monitoring wel	l installed to depmer falling 30
	Sampler Type (ST):  3" Split Spoon Samp  No Recovery	ler	1	C - CI P - Pe M - M	ests: hemical l ermeabili loisture (	ty Conten		Logged by: Approved by nent) Figure No.	RSB JJS A-2	

ocation		У					Surface Elevi Water Depth	10-	12.88' NAV 4.5
Orilling N	-	n Auger,	10.5" OD	/6" ID	di E		Start Date		er 7, 1998
1	Method 3" diameter	, Split Sp	oon Sam	pler, 1	40 lb har	nmer	Finish Date		er 8, 1998
epth feet	Well Construction	Mathane	S	Blows/	Sample M		Dae	cription	
V	Locking B" steel monumen			- 0		aphic			
▽▼	Bentonite chips 4.5 ft. bgs ATD 12/8/98, casing at 47.5 ft. bgs 5.02 ft. bgs 12/10/98	0%		16 16 15 3 2 6 3 2 5 4 4	97,007,007,007,007,007,007,007,001	SILTY Sill TY	EL; gray; angular (GP) SANDY GRAVEL; brown- er; moist, medium dense;  SANDY GRAVEL; brown; v ation (GM)  dark brown; some silt and s or discoloration (SP)	vet, very loos	e; no odors or
	2" ID SCH 40 PVC Riser	0%		5 8 10		SILTY S	RECENT A AND; gray; fine-grained; w tion (SM)	LLUVIUM ret, loose; no	odors or
	Bentonite slurry 30% by			7 5 18					
	weight	0%	111	5 14 19		SAND; bla medium d	ack; fine to medium graine lense; no odors or discolor	d, trace silt ar ations (SP)	nd wood; wet,
San	npler Type (ST):			ab Tes			Logged by:	RSB	
m	3" Split Spoon Sampler No Recovery		(	C - Che	mical Prope neability	rties	Approved by		

.

Project N	lame	South Park		S, INC al Landfil			97041	IV	W-8 AK	MW-08 2 of 3	
Location		King County			•						1A
Drilling M	tethod	Hollow Sten		, 10.5" OI	D/6" ID	)			Water Depth		-
Sampling		3" diameter,	Split St	poon San	npler	140 lb F	amme	r	Start Date	December 7, 199	
Depth					Blows/	Sample	-		Finish Date	December 8, 199	8
feet	Well	Construction	Methane	1. 19	6"	ID	Graphic		Des	cription	
-25		onite slurry, 30% by	0%		7 10 14			SAND; black; fine medium dense; no	to medium gra	ined trace sill and wood	; we
-30		creen 2" ID SCH 40 0.01" slot size	0%		14 24 33						
-	Colorad		0%		12 17 14				Logged by;	RSB	
		t Spoon Sampler covery			C - Ch P - Per M - Mc	emical Promeability	ontent	of Measurement)	Approved by		

Locati	ot Name	South Park ( King County					Surface Eleva	700	2.88' NAV
Drilling	g Method	Hollow Stem		" OD/6"	ID ·		Water Depth Start Date		.5
Sampl	ling Method	d 3" diameter,	Split Spoon	Sampler	. 140 lb	hammer	Finish Date	December	
Depth				S Blow			Tillish Date	December	8, 1998
feet	We	Il Construction	Methane	T 6"	ID	Graphic	Des	cription	
-45	Wi PV	ell screen 2" ID SCH 40 /C, 0.01" slot size readed end cap, 2" ID H 40 PVC	0%	5 12 24 5 11 39		SAND; b	AND; black; fine grained ations (SM)  Jack; some silt; wet, medical forms at depth 49 feet.	wet, medium de service (SP)	
55									
	the same	Type (ST): olit Spoon Sampler ecovery		C-0	Tests: Chemical Permeabil	Properties	Logged by: Approved b	RSB y: JJS	

Project Na		Park Custodial L			DV.	97041	MW-10 1 of 3  Surface Elevation 17.7' NAVD 88
ocation	King Co						Water Depth (ft bgs) 9
rilling M	Contract and Contr	Stem Auger, 10.	5" OD.	6" ID	)		Start Date December 9, 1998
		eter, Split Spoor				amm	
epth			TT	Blows/	Sample	MU,	
eet	Well Construction	Methane	T	6°	ID	Graphi	phic · Description
	Concrete seal  Bentonite chips	O%		5 10 11 4 3 10			RECENT ALLUVIUM  SILT; gray; with wood debris with roots; moist, firm, low plasticity; no odors or discolorations (ML)  SAND; fine to medium grained, trace silt; moist, medium dense; no odors or discolorations (SP)
<b>▼</b>	9 ft. bgs ATD 12/9/ 9.64 ft. bgs 12/10/9			10 12 12 12 3 4 8		TIM	SILT; gray-brown; with burnt woody debris; moist, firm (ML)
5	2" ID SCH 40 PVC	Riser 0%		3 6 8			SILTY SAND; gray; fine grained, with wood debris; wet, loose to medium dense (SM)
	Bentonite slurry, 30 weight	% by 0%		7 8 18	è		SAND; black; fine to medium grained; wet, loose to medium dense (SP)
5	Sampler Type (ST):		-	Lab T	Tests:		Logged by: RSB
	3" Split Spoon S	Sampler		C-C P-Pe M-M	hemical ermeabi loisture	lity Conter	perties Approved by: JJS

Project N		CIENCES Park Custodia		1	BV	97041		-	1W-10		Sheet 2 of 3
Location	King C		a Lanuilli						Surface Eleve		17.7' NAVD
Drilling M		Stem Auger,	10.5" OD	6" 1	)				Water Depth		9
Sampling	Method 3" diar	neter, Split Sp	oon Samr	oler. 1	40 lb h	amm	ar		Start Date	Decen	ber 9, 1998
Depth				Blows/	Sample	1			inish Date	Decen	nber 9, 1998
feet	Well Construction	Methane	Т	6"	ID	Graphic	1		Des	cription	
				5 5 5			SAND; bla (SP)	ck; fine to	medium gra	ined; wet, i	oose to medium der
) 1	Bentonite slurry, 3 weight	0% by 0%		8 22 36					56.00		
25										ě	221 (*)
			- 11								90 - 100 - 1
. 1								-3		x.	2
				7							
		000	П	5			-				
18		0%		14							
			П								
30										1.4	
	Bentonite chips										10.3
							SAND; blac	k; with gra	y silt interbe dense (SP)	ds to 1.5 cr	n and wood debris;
		4 1					, 1003E (	o medium	delise (SP)		2.5
		-1-1	Н	10	. 1		1.4				
		0%	1113	25 39							
											1 Vie
			П	1							7
35	Filler pack, 10 x 20			1							1.
	Colorado silica sano										
			- 11	£1							
											474
						30					
	Well screen 2" ID St	CH 40		6							1
	PVC, 0.01" slot size	0%		4		3.0					
			Н								1
											. (
TT-	mpler Type (ST):			ab Te					Logged by:	RSI	3
П	The state of the s	ampler	F	C - Che	emical Promeability	ropertie	S		Approved by		
	No Recovery		V	M - Mo	isture Co	ontent	e of Measur				

	/-	EART	H	, inc		Projec	t Numb 97041	er	W	ell Number MW-10		Sheet 3 of 3
Projec	t Name	South Park C	Custodia	Landfill						Surface Elevati	ПО	17.7' NAVD
ocatio	on -	King County								Water Depth (f	t bgs)	9
Orilling	Method								34.24	Start Date	Decen	nber 9, 1998
Sampl	ing Meth	nod 3" diameter,	Split Spo	oon Sam	pler, 1	40 lb l	namm	er		Finish Date December 9, 1998		
Depth		Well Construction	Methane	s	Blows/	Sample	MII.			Descri	otion .	!
feet	THE	YVEN CONSTRUCTION	Methane	T	6"	ID	Graphi			20001		
-45		Well screen 2" ID SCH 40 PVC, 0.01" slot size  Threaded end cap, 2" ID SCH 40 PVC  Filler pack, 10 x 20 Colorado silica sand	0%		7 8 36 7 12 31		Graphii and a second a second and a second a	SAND; bla	LT; dark	silt; wet, mediu	m dense	w plasticity (ML)
						100						
			1									
	Frem	ler Type (ST):				Tests:				Logged by:	R	SB
. 1		3" Split Spoon Sample	r			hemical		ties		Approved by	. JJ	S
	П	No Recovery								- Salar Selection	2.3	
	U,	10 Necovery							100			
	-	3" Split Spoon Sample No Recovery	r		P-P M-N	ermeabi Noisture	lity Conten		surement		r. JJ A-	

Project Na	ame South Park				D V 3	97041		MW-12 Surface Eleva	dior	1 of 1
Location	Seattle, Wa					-				19.11
Drilling Me	Partie and the same of the sam	n Auger 10	0.5" O	0/6" ID		-		Water Depth Start Date	and the same of the same of	7.34
Sampling	Method 2" diameter,	Split Spoon	Sampl	er, 140	lb hami	ner 30	inch dron	Finish Date		mber 20, 1999
Depth		Methane	s	Blows/	Sample	MII.	mich drop	Finish Date	Septe	mber 20, 1999
feet	Well Construction  Locking, 8" Steel Monumen	%	T	6"	ID	Graphic		Des	cription	
	Si distribution					IIIII		F	ILL	
	Concrete seal						Firm, moist	; brown and tan mottle	d SII T	
								, and tall mottle	u OIL1	-
					7.0	ШШ				
		0		3	S-1	$\mathbf{IIIIII}$				
				4						
	Bentonite chips	1 1	12			ШШ				
5						11111		BECENT	A	
		0		4	S-2			RECENT		
				4 3			coose, mois ed grains a	t; red-brown SAND; s	ilty interbe	ds, sand fine to coan
Ā	6.5 ft bgs ATD, 9/20/99, casing at 7.5 ft bgs		H	3.0					- 3	
立	7.34 ft bgs, 10/14/99								8	
III I		0		2	S-3					
				2 6 7			grades med	lium dense, wet, with	fine sand b	pedding
- 3			F	200						
10	Filter pack, 10x20 Colorado				1 6					
	silica sand		- 11							
			- 11							
				1						
	Well screen 2" ID SCH 40 PVC, 0.01" slot size	16								
		0		5	S-4					
			19	11			grades blac	:k		
			H		3					24
5	Threaded end cap, 2" ID									
1	SCH 40 PVC			İ	1					
88888			- 11	- 1						
.			- 11		-	M	edium dens ganics	se, wet; gray-brown S/	ND; some	silt, sand fine, trace
						3.53 h				
		0		4 5	S-5					+
				6			7			
	Bentonite chips		H		1					
o			- 11					ESTUARINE	DEPOSIT	
							hell fragme	ents in cuttings	DE1 0011	,
				1	:			GLACIAL SE		
		- I			13	···· Ve	ery dense, n	noist; gray SAND with	GRAVEL;	little silt
		0		27 50/4"	S-6					
				30/4		Bo	ttom of bor	ing at 22.5 feet. Il installed to depth of		
			H		1	1		in metalled to depth of	15.3 feet.	
1										
-	pler Type (ST):			Lab Te	.,			Logged by:	RRI	Н
	3.25" OD D&M Split-Sp	oon Ring Sar	npler	C - Che	emical Pr meability	operties		Approved by		
L.	No Recovery			M - Moi	sture Co	Start.		200 (4) 27, 28		

		Descier	And the second			BV	97041		MW-14		1 of 2
roject Na	me	South Park C			ill				Surface Elev	vation	19.05
ocation .	*	Seattle, Was							Water Dept	h (ft bgs)	3.96
Drilling Me	thod	Hollow Stem							Start Date	Septe	mber 14, 1999
Sampling	Method	2" diameter, S	plit Spoo	on Samp	ler, 1	40 lb ham	mer, 3	0-inch di	rop Finish Date	Septe	mber 14, 1999
Depth feet	Well	onstruction	Methane %		S Blov				. Di	escription	
Teel V		ng, 8" Steel Monument			1 6	, ID	Graphic				
		rete seal				M.		seen.		PSOIL	CO. 42 2 11 11 2
	Conc	rete seal						concrete	moist; dark brown SANI e and bricks in cuttings	FILL	and ORGANICS;
		onite chips	0		11	0		Medium brick	n dense, damp; brown S		ILT and GRAVEL; with
Δ		ft bgs, 10/14/99									
5		bgs ATD, 9/14/99, g at 5 ft bgs	0		7 4	S-2	M	Loose,	wet; brown SILT; trace g	ravel, trace	sand, trace wood
			Ü		3 5						्रिक्री आसूर्य अस्तु
			100				min		RECEN	TALLUVIU	M
			0	-	4 8 9	1		Medium medium	dense, wet; black SAN		
10				-							
-15	2.0	pack, 10x20 Colorado sand	0		4 9 9			- wood	in auger		
		screen 2" ID SCH 40 , 0.01" slot size	0			2 S-5		Stiff, we	et; brown SILT; trace sai	nd laminae	low plasticity
20	SCH	aded end cap, 2" ID 40 PVC gravel						- heavin	ng at 21 feet		
-		onite chips	0			S-6		Medium	ESTUAR n dense, wet; brown SAN	INE DEPO	
	Sampler T	Type (ST):				ab Tests:	HH	İ	Logged	by: f	RRH
	=	" OD D&M Split-S Recovery	poon Rin	g Sample	P	- Chemica - Permeat	oility.		Approve	d by:	JS

Project Name	South Park Custo		BVS	7041	MW-14	2 of 2
Location	Seattle, Washingt	on Lanuini			Surface Elevation	19.05
Drilling Method	Hollow Stem Auge	r 10 E" OD/O	al In		Water Depth (ft bgs	3.96
Sampling Method	2" dismotes Call O	10.5 00/6	ID		Start Date Sep	tember 14, 1999
Depth :	2" diameter, Split Sp			ner, 30-inch drop	Finish Date Sep	tember 14, 1999
	onstruction Methan	B S B	Nows/ Sample	MU.		
			E" ID	Graphic	Description	40
- Bento	nite chips 0		4 S-7 7 23 S-8 16 17	Hard, wet; brow in shoe  Hard, moist to w	GLACIAL SEDIMI on and gray mottled SILT; or and gray and tan mottled s	trace sand lenses, grav
45		11				
				110		
				1		
			Tes II			y -
		- 11	1 1			
	Y				(2)	
Sampler Type	(ST):	150	h Toots:	1 - 4		
and the second s	D&M Split-Spoon Ring		b Tests: Chemical Pro	4441	Logged by: R	RH
☐ No Reco		P-	Permeability .	penies	Approved by: J.	IS
I NO RECO	very	100	Moisture Con	6.52		

	BART	VCES,	INC		Project BV9	7041	Direct
roject Name	South Park C	Custodial	Landfill				Surface Elevation 20.78
ocation	Seattle, Was	hington					Water Depth (ft bgs) 15.3
Prilling Method	Hollow Stem	Auger 1	0.5" OD	/6" ID			Start Date September 17, 1999
Sampling Method	2" diameter, S	plit Spoor	Sample	r, 140	lb hamn	ner, 30	30-inch drop Finish Date September 17, 1999
Depth feet Well	Construction	Methane %	S	Blows/	Semple	MIL Graphic	
A KA LOC	king, 8" Steel Monument			-		O, Spins	FILL
Cor	ocrete seal		72		8.4		Medium dense, damp; brown SAND with GRAVEL; trace silt, torganics, 1 piece of glass
Ben	tonite chips	0		6 9 8	S-1		
						-0	REFUSE
5		0		7 7 7	S-2	S. 43	
		0.1		26 27 31	S-3	To Co	-very dense, damp; gray concrete cinder block
10 Ben weig	tonite slurry, 30% by pht	0	Z	14 15 7	S-4	3.43	
Ш	e l	0		2 3 2	S-5A		Firm, moist to wet; gray grading to brown SILT some ORGANIO
				2	S-5B	22.72.4	RECENT ALLUVIUM
15 casi	ift bgs ATD, 9/17/99, ng at 17.5 ft bgs ID ft bgs, 10/14/99				,		Medium dense, moist; dark brown to black SAND; sand fine to medium, angular red grains visible of volcanic origin
		0		1 2	S-6A		grades firm, wet, brown silt, some organics
20				2 3	S-6B		Medium dense, wet; black SAND; sand fine to medium, angular grains visible of volcanic origin
		0		3 8 10	S-7		- trace silt interbeds
F-7	ype (ST): " OD D&M Split-Sp	oon Ring S	Sampler		ests: hemical F ermeabili		Logged by: RRH arties Approved by: JJS
LI NO F	Couvery			M - M	oisture C	ontent	nt .

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Project N	lame	South Park		all andfi		DV	97041			/IW-18		2 of 2
ocation		Seattle, Wa			II .		-0.0			Surface Elev		20.78
Orilling M	lethod	Hollow Sten			VICIL IE			-		Water Depth	(ft bgs)	15.3
	Method	2" diameter 5	Solit Spar	on Compl	2/0 IL	16.6			\$	Start Date		ember 17, 199
Depth	inganou.	2" diameter, 5	Methans	1		-		inch drop	D F	inish Date	Septe	ember 17, 199
feet .	Well Co	onstruction	%	3	Blows/	Sample ID	MII. Graphic			Des	cription	
30	weigh	ack, 10x20 Colorado	0		3 10 14	S-8		Medium de grains visit	ense, wet; ble of volc	black SANE anic origin	); sand find	e to medium, ang
5		reen 2" ID SCH 40 01" slot size			16 12			sand fine				
	Threads SCH 40	d end cap, 2" ID PVC	0		7 8 16	S-10			orown SILT	few SAND;	trace orga	anics
	Bentonik	e chips	0		12 13 15	S-11	Mar	edium der nd angular	nse, wet; b	lack SAND;	sand fine	to medium, red gr
			0	MIN	6 19 27	S-12	Во	ttom of Bo	orino at 49	sand, trace feet. d to depth of		
Sar	npler Type			-	Lab Te	ests:				Logged by:	RR	
	No Reco	D&M Split-Spo overy	on Ring S	Sampler	C - Ch P - Pe	emical P rmeability pisture Co	/			Approved by		

		vces,			BV9	7041 <b>MW-24</b> 1 of 2
roject Name	South Park (		Landfill			Surface Elevation 13.57
ocation	Seattle, Was					Water Depth (ft bgs) 8.35
rilling Method	Hollow Stem	Auger 1	0.5" OD	6" ID		Start Date September 21, 1999
ampling Metho	d 2" diameter, S	plit Spoor	Sample	, 140	lb hamn	ner, 30-inch drop Finish Date September 21, 1999
repth We	all Construction	Methane %	S	Blows/	Sample	Mtl. Graphic Description
MAG	ocking, 8" Steel Monument	1			-	FILL
5 Y 6	oncrete seal antonite chips Oft bgs ATD, 9/21/99, esing at 7.5 ft bgs	0				Medium dense, damp; dark red-brown SAND; sand fine to me sand angular  - grades moist to wet, dark brown to black
∑. 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
		0		3 2 9	S-2	RECENT ALLUVIUM  Medium dense, wet; black SAND; some brown organic silt interbeds, sand fine to medium
	tentonite sluny, 30% by velght	Ō		5 11 14	S-3	- sand grades angular
		0		2 15 37	\$-4	- grades very dense
3,	er Type (ST): 25" OD D&M Split-S o Recovery	Spoon Ring	Sampler	C - C	Tests: Chemical Permeable Moisture	

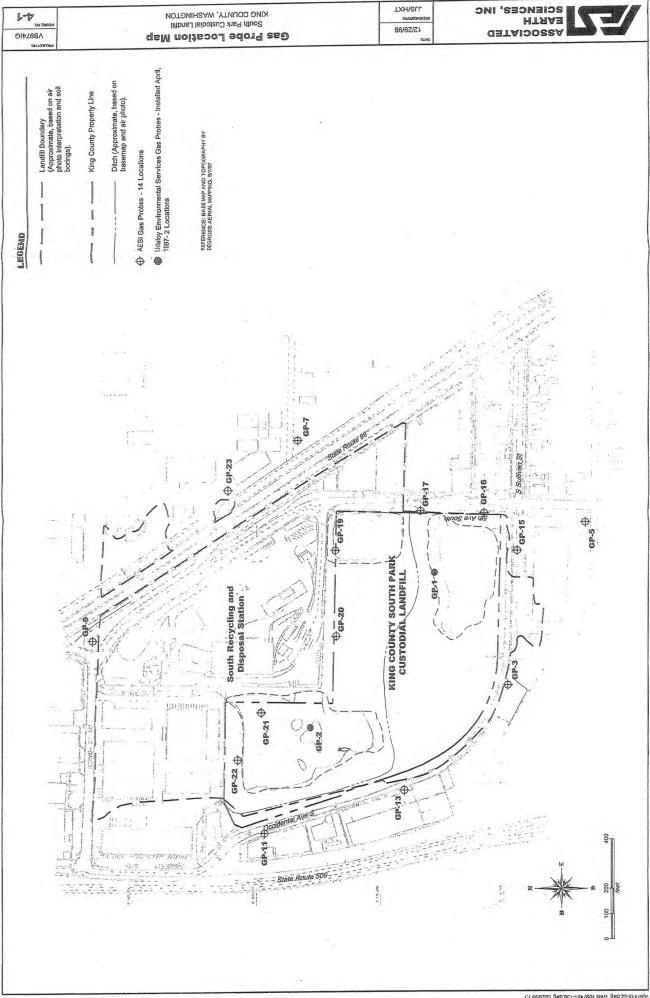
Projec	t Name		IENCES			BV	97041	Well Number MW-24		Sheet 2 of 2
Location		South Pa	rk Custodia	Landfill	-			Surface Elev	ation	13.57
The second second	Method		Vashington		100			Water Depth		8.35
		The state of the s	tem Auger 1	0.5" OD	/6" ID			Start Date		mber 21, 1999
	ing Meth	od 2" diamete	er, Split Spoo	n Sample	r, 140	lb hamr	ner, 30-inch drop	Finish Date	Sente	mber 21, 1999
Depth feet	A	Well Construction	Methane	s	Blows/	Sample	Mtl,			
			70	7	6"	· ID	Graphic	Des	cription	
-30		Bentonite slurry, 30% b weight	у О		9 28 32	S-5	Very dense, we sand fine to me	t; black SAND; so	ome brown	organic silt interbe
-35	Fs	iller pack, 10x20 Colora llica send	O		9 24 33	S-6	nm ein ver	rown SILT with S		* · · · · · · · · · · · · · · · · · · ·
40	N.	/ell screen 2" ID SCH 40 VC, 0.01" slot size	0		4 2 2	S-7		,		
45		C slip cap, 55 screws	0		4 8 10	S-8	iviedium dense, v	/et; black SAND;	sand fine to	o medium and ang
0	Pe	a gravel	0		3	S-9	- grades siltier - grades few silt, t	ace wood and on	ganice	13. 39
S		Type (ST):			9  4  ab Tes	ate:	Bottom of Boring a Monitoring well ins	it 49 feet. talled to depth of	45.3 feet.	-
	3.25 No	5" OD D&M Split- Recovery DD Split-Spoon Sa		mpler (	- Che	mical Pro meability sture Cor		Logged by: Approved by	RRI JJS	1

ral	lant	Nami	-	South Park (	· · · · ·	ial ( and 60		31	0041		MW-25		1 of 1
	allo		4	Seattle, Washin		iai Lanuilli					Ground Surface El	- Marrie	the state of the s
		lelho	d	Holt / Hollow St							Top of Casing Elev Depth to Water (B)		12.54
		ng Me		And the same of the same of the same of			mmar				Start/Finish Date	00)	2/23/2006
	pth /		0101	***************************************				Blanel	Materi	T			212012000
Elav (fe	rellor		11	Weil Completion	Sampl TypeAl	Tools PID		6	Турв		Des	nough	
5 -	15		TO VIOLEN	Abova ground locking monument with boliants and slip cap Concrete surface seed Concrete surface seed	Ş-			333		Lopse, da	imp, brown, slightly slity		
	†		M		S-	2		3		Medium s	RECENT liff, moist, gray SILT; sca	ALLUVIU allered on	M ganics, wood debris
, .	1		B	<b>∑2232006</b>				(1)	ЩЩI	and and all			
	10					77		4		Loose, We	ot, black, fine to medium	UNAC	
			V 4		S-	3		5		:			
	Ī	8 4	11						TOTAL				
10-	1			2-Inch PVC blank casing	1			1		very soft,	wet, gray SILT; abundar	at wood d	enns
-	+			15	S-	4		0					
			W	12.2					Ш				
	5		100	₹227200B				1	Ш				
	1		M		S-	5		1	IIIIII				
	+	4	-44	64 A. **	-			1					
15-	1								ЩЩ				
				n	S-	5		1		Very soft,	wet, gray, sandy SILT; s	and fine	
					Ω			1					
ď	0			Bentonita pellai piug									
-	+			-amanita kenai hadi	S-	7		2 2 1					
7-	1				0			1					
00		門	1										
20 -	Ī			3.4		,		4		Medlum d	ense, wet, black, slightly	silty, fine	to medium SAND
7	+	1	1	10-20 Mer pack	S-	9		6 7					
-	-5							1					1. hr
	1					3	7			1		)	nev
					S-	DS250602	223-	6 10 12			set pu	ma 1	2700
				2-Inch, 20-stol, PVC				12			rat po		1
25 -	t			well screen		1					Do.	24 1	,
	-	art of the									N	V	
	-11	)						1					
-		-				1			Contract	Boltom of	Boring at 28'		
4													
										Coordinate	es N: 197657.49 E: 1270566.75	Line	
		ample	100	pe:		- disame	PID-	Photolo	onizati	on Detector		d by: T	DC
01	No F	Recov	ery	A Spill-Speen			Statio	Water !	Level		Anne	ved by: J.	IS
Ui	Ring	Sam	pler	A Spill-Spoon		立	Water	Level (	ATD)		Арріо	voo by. U	
											Flgure	Na. A	- 2

	Aspect con	sulling		Projec	1 Num	ber	g Well Construc	Sheet
Project Name	South Park (		andfill	97	0041		MW-26	1 of 1
ocalion	Seattle, Washin		andriii	**********		***************************************	Ground Surface Elev (N	The second named in column 2 is not a second named in column 2 in
Orller/Method	Holt / Hollow Ste		·				Top of Casing Elev. (NA Depth to Water (BTOC)	
Sampling Meth			300 lbs Hamme	T			Start/Finish Date	2/23/2006
Dopth / Elevation	Well Completion	Sumple Type/ID	Tests/ PID	Blows	Melarin		- Description	Marie Commission in the Commis
(feal)	8	турыш	rib	6:	Турь			***************************************
	Above ground locking monument with bollards and slip cop Concrete surface soul  2-Inch PVC blank costing  Benfordto chip soul  \$\square\$2723006  \$\square\$27272006  Benfordto pellet plug  10-20 filter pack  2-Inch, 20-slot, PVC well scream	6-7 O S-B	DS26060223-	445 211 111 244 122 345 444 3		Loose, damp	RECENT ALLL brown SILT; abundant o brown SILT; few organic dium sliff, wet, gray sandy loose, wet, black, fine SAI	Vium manics s / SILT; sand fine ND; trace silt
		O 8-9		3 4				
-15					- 1	Boltom of Bori Coordinates A		
Sampler I No Recovery 3.25" OD D8 Ring Sample			Stalle!	Photolor Water L Level (A	evel	n Delector	Logged by: Approved by Figure No.	

	Aspectcon	AGPECTIVE			Num 0041	ber .	ng Well Constru MW-27	Sheet 1 of 1			
Project Name ocation Oriller/Method	South Park Seattle, Washin Holt / Hollow S	ngton tem Auger					Ground Surface Elev (NAVD88) 12.72 Top of Casing Elev. (NAVD88) 14.76 Depth to Water (BTOC) 6.91				
Depth / Depth / Depution		7	7		hiera.		Start/Finish Date	2/23/2006			
(last)	Well Compiotion	Sample Type/ID	PID	6	Туре		Descrip				
10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Above ground torsing monument with bollards and sign cap Controls surface neal 2-inch PVC blank casing Bontonite chip seal 10-20 filter pack 2-inch, 20-slet PVC well screen	S-1 O S-3 O S-3 O S-5 O S-6 O S-6 O S-8	DS270602	7 10 11 3 2 2 2 2 2 2 2 3 4 5	5.5.40.50.50.60.60.60.60.60.60.60.60.60.60.60.60.60	Medium de fine SAND  Loose, wel  -Very loose  Loose, wel  Loose, wel	brown, medium to fine S  wet, gray-brown GRAV  RECENT AI  gray, slity fine SAND  black, fine to medium SA	el, slightly sitty, slightly gravel AND; trace slit, trace gravel EL: well rounded to 0.5-inch			

## **Historical Gas Probes**



(	U.	-		Uda			4-1	CUE	NT/PRO	DECT NAME King County South Park BORING NO SB-1 AKAT
L			5	Ser	iron vice	S		GEO DRIL	LOGIST	PROJECT & #19-001-01  DEFENGINEER B. Carpenter/H. Corner  DATE BEGAN 4/14/97  DATE COMPLETED 4/14/97  DATE COMPLETED 4/14/97  DATE COMPLETED 4/14/97  DATE COMPLETED 4/14/97  DATE COMPLETED 4/14/97  DATE BEGAN 4/14/97  DATE COMPLETED 4/14/97  DATE BEGAN 4/14/97  DATE BEGAN 4/14/97  DATE COMPLETED 4/14/97  DATE BEGAN 4/14/97  DATE BEGAN 4/14/97  DATE COMPLETED 4/14/97  DATE BEGAN 4/14/97  DATE BEGAN 4/14/97  DATE COMPLETED 4/14/97  DATE BEGAN 4/14/97  DATE BEGAN 4/14/97  DATE COMPLETED 4/14/97  DATE BEGAN 4/14/97  DATE BEGAN 4/14/97  DATE COMPLETED 4/14/97  DATE BEGAN 4/14/97  DATE
	-	-	-		VG I	- CONTRACTOR	-	B	-61	HOLE DIA. 10" GP-01
Monitaring	7							DEPTHINFEET	SOIL GROUP SYMBOL (USCS)	WATER LEVEL DATA  FIELD LOCATION OF BORING  NOW Corner of South  TIME  DATE 4/14/77  BORING SOL
W.	>	-	PIC	or a			0 16	0-	os os	LITHOLOGIC DESCRIPTION
3550	A		Best 10-70		SBI-	15 17/21		2- 4- 6-	5m	Dark Brown silty SAND, fine poorly graded with grand and calebra, Fill by graded silty SAND, with asphalt, Fill
0/0	1.1.1.1.			55-3°		11 25/30 541		8- 10-	7	Silty SAND, with charred word waste
00	K.	-	d d	55-3"	×	5o/i"		14 16- 18-		No recovery, wood waste wheresote in tip of spirt sporn  No recovery. Drilling became easier (Possibly ext of gardings into SILT)
39/1	B		P-	\$\$3"		1/11/19		22-	ml	Grey- Journ Soudy SILT with Some plant water
	-			55-3' 55-2"		5911 1424 508		z6- z8- 30-	sp	No recovery. Usal 2" Sampler for Sound attempt Black fine to medium SAND conthe frace of Silt, pourly graded
REI Add No	MAR de de de te E Spen	KS 2' ceti	of on	och s 10x Z f v	nilled O Sa inyl	chl	reho fum mide	17 18 18 18 (co	with to 15 benz noucian	Pure Gold medium laentruite chips from 20 to 17.  ". Well String 14'9" set at 15". Screen (10'-2056t)  one with detector to leas (Sensidyne Purp) at 4"  co. DH. 110 reading, pocket torvane, etc.) Elevated PID possibly causel

	S Services						GEO	LOGIST	JECT NAME King County Solid BORING NO. SB-2  JSWIN Parkapadiett & A19-001-01  JENGINEER B. Carpanter / T. Treat  DATE BEGAN H/15/97  DATE COMPLETED 4/15/97  TOTAL DEPTH 15"  SHEET F OF 1
	SOIL BORING LOG					9	_ [	3-6	HOLE DIA. 10" SHEET TO OF 1
N. Y.	3			MPLI	VG D	ATA	EET	scs).	WATER LEVEL DATA  FIELD LOCATION OF BORING:  E of TP - 11. Grown  Afters 5. (4-1-1)
Mark	WELL OR	DETAILS	SAMPLING	SAMPLE	BLOWSAT	DEPTH SAMPLED	DEPTH IN FEET	SOR GROUP SYMBOL (USCS)	TIME 10:00 of trees, 5. Central and Truck Storage yard -No DATE 4/15/97 DATUM
2/6	GW-	سد	لمين	7	るかが				LITHOLOGIC DESCRIPTION
	· [7]	DA	37300	282-		50	0-	Sm	Brown gray silty SAND, time to undiver wite
-		Bestal	-		30/6° 50/2'		2-		Blom-gree Sill SAND, fill mixed with
					Sola!		4-		pieces at a fire! and retuse
-	二日	10-70					6-		
Pja	٠, 🗏	saul			11/6"		8-		Februs - Grey Silty SAND, Fill mixed with
_	: 3		-		7		10_		Transaction and the second
10	,目	Stot					12-		
0/50	":目				50/2				No Recovery, word was to in tip of Sample
+	3 (3)						14-		
							16-		(Reached augus refusal on large piece of steel
-							-		0 0 1
							_		
									·
-			-	-	***************************************		-		
							-		
-					-		-		
							_		
		- 3				-			
							-	1	
							-	1	
_							_		
							-		
	AADIC						1	117	
13' So	9" 6	is Sa	100	of ad	سوال کن ا ا	اه ا ماد المحم	* 1	10 p	Festing on 12" (8-12 Colorado Sand). Wall 5kg 3'9" of blank PVC. Used 5 bogs of 10-20 12 Sand (5016) and 2 bogs of least think chips. 12 Sand (5016) and 2 bogs of least think chips. 12 Sand (5016) and 2 bogs of least think chips. 12 Sand (5016) and 2 bogs of least think chips. 13 Sand (5016) and 2 bogs of least think chips.

		ASSI EART SCIE	H	red S, INC		r roject N	umber	& Gas Probe Co	onstruc	Sheet
Projec	t Name	South Park C				BV97	J41	GP-3		1 of 1
ocatio		King County	u o to dic		_			Surface Elev		20.15
	Method	Hollow Stem	Auger,	10.5" OD	/6" ID			Water Dept Start Date		mhor 2 dona
Sampl	ing Metho	d 3" diameter,	Split Sp	oon Sam	pler, 1	40 lb han	nmer	Finish Date		nber 3, 1998
epth	100	The State of the S		s	Blows/		11,			mber 3, 1998
reet		as Probe Construction ocking 8" steel monument,	Methane	т т	6"		raphic	De	scription	
1184111841118411		Oncrete seal	-				SANDY	SILT; brown; small bric ration (ML)	FILL k chips; mo	ist, stiff; no odors o
CAX AMARIAN MARIAN	R	iser, 0.75" ID, SCH 80 PVd			8			*		
		entonite chip seat	0%		12 16					
2000				4						
130000			0%		6 14	Щ	SAND;	prown; trace to some silt;	moist to we	et; medium dense;
100		ter pack, pea gravel			11		ouors or	discoloration (SP)		
9.	80	ell screen 0.75" ID, SCH PVC, 0.04" slot size						-		
		D 12/3/98 '5" ID PVC end cap					Bottom c	of boring at depth 7 feet.	Gas Probe	installed to death
							feet.			as as as as as as as as as as as as as a
	Y.					i c				
								19.1		
	∭ 3" S	Type (ST): Split Spoon Sampler Recovery	1		M - Mo	emical Propositive Cont	erlies ent Date of Meas	Logged by		

AKA - GP-05

Project Name Location   South Park Custodial Landfill   Surface Elevation   17.35		EART	VCES, INI	3	Project I BV97		GP-5	Sheet
Cooking Method   Cooking or State   Price   Cooking or State   Cooki	roject Nam			the same of the same of	0,01	211	_	1 of 1
Hollow Stem Auger, 10.5" OD/6" ID 3" diameter, Split Spoon Sampler, 140 lb hammer  Start Date  Pinish Date  Description  Description  Description  Description  Description  Description  Description  Description  Fill.  PVC stopcock.  Riter, 8.75" ib, 8CH 8g PVC  Till Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Well screen 0.75" ib, 8CH 8g PVC  Till Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Well screen 0.75" ib, 8CH 8g PVC  Till Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Well screen 0.75" ib, 8CH 8g PVC  Till Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Well screen 0.75" ib, 8CH 8g PVC  Till Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Fillet pack, pas gravel  Well screen 0.75" ib, 8CH 8g PVC  O%  Fill T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Fillet pack, pas gravel  Well screen 0.75" ib, 8CH 8g PVC  O%  Fill Town; very moist, firm, high plasticity; no odd discolorations (ML)  Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still. T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Still T; gray-brown; very moist, firm, high plasticity; no odd dis				011				
ampling Method 3" diameter, Split Spoon Sampler, 140 lb hammer Finish Date December 4, 1998  Gas Probe Construction  Gas Probe Construction  Methanse S Blowd Sample III. In Graphic Description  Country Friend monument  Prob stoppers.  GRAVEL; gray; angular (GP)  SILT; brown; trace gravel, some sand, moist, soft; no odd discoloration (NL)  Riser, 0.75" ib, SCH 80 PVC  One of the prob seal  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Well screen 0.75" ib, SCH 80 PVC  One of the prob seal  One of the prob seal  One of the prob seal  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Filter pack, past gravel  Well screen 0.75" ib, SCH 80 PVC  One of the prob seal  One of the prob seal  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; very moist, firm, h	rilling Meth	The same of the sa	Auger, 10.5" (	DD/6" ID	0 9 =			
Gas Probe Construction Methane    S   Blower   Sample   Manager					40 lb ha	mmer		
Gas Prote Controllon  Methania  T 6* 10 Oraphic  GRAVEL; gray; angular (GP)  FILL  GRAVEL; gray; angular (GP)  SILT; brown; trace gravel, some sand; moist, soft; no odi discoloration (ML)  SILT; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Filter pack, pas gravel  Well screen 0.75* ID, SCH 60 PVC  O'8* 15  Filter pack, pas gravel  O'8* 2  Filter pack, pas gravel  O'8* 3  Filter pack, pas gravel  O'8* 5  Filter pack, pas gravel  Silt.T; gray-brown; vary moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; vary moist, firm, high plasticity; no odd discolorations (ML)  Filter pack, pas gravel  O'8* 5  Filter pack, pas gravel  O'8* 5  Filter pack, pas gravel  Silt.T; gray-brown; vary moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; vary moist, firm, high plasticity; no odd discolorations (ML)  Silt.T; gray-brown; vary moist, firm, high plasticity; no odd discolorations (ML)  O'8* 5  Filter pack, pas gravel  O'8* 5  Filter pack, pas gravel  O'8* 5  Filter pack, pas gravel  O'8* 5  Filter pack, p		77		TT	T			
Filter pack, pass gravel  One of the PVC end cap  One			Melhane		ID	Graphic	Des	scription
Concrete seal  Riser, 0.75° ID, SCH 80 PVC  Bentonite ship seal  Sil.T., gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Fillet pack, psa gravel  Well screen 0.75° ID, SCH 60 PVC, 0.04° slot size  0%  -Bottom of boring at depth 7 feet. Gas probe installed to feet.  - Soil sampler driven using 140-pound hammer falling 30  - Soil samples are logged from adjacent Monitoring Well  - Shelby tube sampling attempted from 7 feet to 9.5 feet sample recovery  - No groundwater encountered.	M			20		. I. I	F	ILL
Concrete seal  O%  Bestonite thip seal  SiLT; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)  Well screen 0.75* (0, BCH 80 PVC and cap  O%  -Bottom of boring at depth 7 feet. Gas probe installed to feet.  - Soil sampler driven using 140-pound hammer falling 30  - Soil samples are logged from adjacent Monitoring Well - Sheiby tube sampling attempted from 7 feet to 9.5 feet sample recovery - No groundwater encountered.		Ø		11 .	1 9	0.01		
Bentonite chip seal    SiLT; gray-brown; very moist, firm, high plasticity; no odd discolorations (ML)    Well screen 0.75° ID, SCH 80 PVC, 0.04° slot slize   O75° ID PVC end csp		Concrete seal				discoloration	trace gravel, some (ML)	sand; moist, soft; no odors or
Bentonite chip seel  Filter pack, pea gravel  Well screen 0.75" ID, SCH 80 PVC, 0.04" slot slize  0.75" ID PVC end cep  0%  -Bottom of boring at depth 7 feet. Gas probe installed to feet Soil sampler driven using 140-pound hammer falling 30 - Soil samples are logged from adjacent Monitoring Well - Shelby tube sampling attempted from 7 feet to 9.5 feet sample recovery - No groundwater encountered.		Riser, 0.75" ID, SCH 80 PV						
Well screen 0.75' ID, SCH 80 PVC, 0.04" slot slize  0.75' ID PVC end cap  -Bottom of boring at depth 7 feet. Gas probe installed to feet Soil sampler driven using 140-pound hammer falling 30 - Soil samples are logged from adjacent Monitoring Well - Shelby tube sampling attempted from 7 feet to 9.5 feet sample recovery - No groundwater encountered.		Bentonité chip sest	0%	4		SILT; gray-br discolorations	own; very moist, fire s (ML)	m, high plasticity; no odors or
Well screen 0.75" ID, SCH 80 PVC, 0.04" slot slize  0.75" ID PVC end cap  -Bottom of boring at depth 7 feet. Gas probe installed to feet Soil sampler driven using 140-pound hammer falling 30 - Soil samples are logged from adjacent Monitoring Well - Shelby tube sampling attempted from 7 feet to 9.5 feet sample recovery - No groundwater encountered.								
-Bottom of boring at depth 7 feet. Gas probe installed to feet.  - Soil sampler driven using 140-pound hammer falling 30 - Soil samples are logged from adjacent Monitoring Well - Shelby tube sampling attempted from 7 feet to 9.5 feet sample recovery - No groundwater encountered.		Filter pack, pea gravel						
- Soil samples are logged from adjacent Monitoring Well - Shelby tube sampling attempted from 7 feet to 9.5 feet sample recovery					÷			
- Soil sampler driven using 140-pound hammer falling 30 - Soil samples are logged from adjacent Monitoring Well - Shelby tube sampling attempted from 7 feet to 9.5 feet sample recovery - No groundwater encountered.	195	0.75" ID PVC end cap	0%	2		-Bottom of bo	ring at depth 7 feet.	. Gas probe installed to depth
	E.		x -	6 7		- Soil sample - Soil sample - Shelby tube	r driven using 140-p s are logged from a sampling attempte	oound hammer falling 30-inche
				_		- No groundw	ater encountered.	
Sampler Type (ST):  Lab Tests:  Logged by: RSB  3" Split Spoon Sampler  C - Chemical Properties  Approved by: JJS	San					roperties		

GP-07 Geologic & Gas Probe Construction Log ASSOCIATED EARTH Project Number Well Number SCIENCES, INC BV97041 GP-7 1 of 1 South Park Custodial Landfill Project Name Surface Elevation 12.88 Location King County Water Depth (ft bgs) Hollow Stem Auger, 10.5" OD/6" ID **Drilling Method** December 8, 1998 Start Date Sampling Method Finish Date December 8, 1998 Depth Blows/ Sample MU. Gas Probe Construction feet Methane Description Graphic Locking 8" steel monument PVC stopcock FILL GRAVEL; gray; angular (GP) SILTY SANDY GRAVEL; brown; subrounded to 1" diameter; moist, medium dense (GM) Concrete seal Riser, 0.75" ID, SCH 80 PVC Bentonile chip seal 16 16 15 -3 0% Filter pack, pea gravel Wall screen 0.75" ID, SCH 80 PVC, 0.04" slot size 0.75" ID PVC end cap Bottom of boring at depth 4.5 feet. Gas Probe installed to depth 4.5 feet. No groundwater encountered. - 5 Soil samples are logged from adjacent Monitoring Well MW-8. -6 -7 8 9 Sampler Type (ST): Lab Tests: Logged by: RSB 3" Split Spoon Sampler C - Chemical Properties Approved by: JJS M - Moisture Content No Recovery Water Level (Date of Measurement) 2 " Split Spoon Sampler

PARKGP SPARKMW.GPJ January 3,

HK.M **GP-09** Geologic & Gas Probe Construction Log ASSOCIATED Project Number Well Number SCIENCES, INC BV97041 GP-9 1 of 1 Project Name South Park Custodial Landfill 17.7 Surface Elevation 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 Blows Sample MU. Gas Probe Construction Melhane Description 6" 10 Graphic Locking 8" steel monument, FILL PVC slopcock SAND; fine to medium grained, trace silt; loose (SP) Concrete seal Riser, 0.75" ID, SCH 80 PVC 0% 10 11 Bentonite chip seal 5 3 10 RECENT ALLUVIUM SILT; gray; wood debris; moist, firm, low plasticity (ML) 6 Well screen 0.75" ID, SCH 80 PVC, 0.04" slot size Filler pack, pea gravel SAND; fine to medium grained, trace silt; moist, medium dense 0% 8 0.75" ID PVC and cap -9 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): Lab Tests: RSB Logged by: C - Chemical Properties 3" Split Spoon Sampler JJS Approved by: M - Moisture Content No Recovery Water Level (Date of Measurement) 2 " Split Spoon Sampler Water Level (ATD) 20 Figure No.

	The state of	PESCIE	NCE	3, INC			ct Nun 9704		GP-11	18	Sheet
Project I	Vame	South Park	Custodi	al Landfill			-, -,		Surface Elev	entia-	1 of 1
ocation		Seattle, Wa									19.09
Orilling N	Method	Hollow Ster	n Auger	10.5" OD	/6" ID				Water Depti	100	6.5
	g Method	No samples	- log infer	red from M	W-12				Start Date		ember 20, 1999
Depth			Methane	ls	Blows/	Sample	MIL		Finish Date	_ Septe	ember 20, 1999
feet		robe Construction	%	Т	6"	ID	Grapi	nie	De	scription	
. 8	N LOCK	ing, 8" Steel Monumer	"						. 1	FILL	
K			1					Firm, moist; br	own and tan mott	ed SILT	
									THE RESERVE THE STATE OF	AT WIE	
	N	rete seal			i						
K	· Marcon	rece pod(						II.			
								11			
K	M							11			
,									1		30
2											
				*							
			0								
			1 1								
	Bento	onite chips									
			1 1								
											11.4
88	101						ШÜ	Loosa malati			
0.9	Filter	pack, pea gravel						sand fine to coa	ed-drown to black arse	with depth	SAND; silty interbeds
0	609		1				:::::				
0	00		-								
Post	Well s	creen 2" ID SCH 40	0		1		::::				
10	PVC,	0.04" slot size	-2								
0	PVC	lip cap, 55 screws		- 11							
50	0										
00	0	10									
50	0										X 68
N o		ogs (ATD), 9/20/99				•					
											-
								Bottom of Boring	a at 6 fact		
								Gas probe insta	lled to depth of 5.	8 feet.	
		0									
				- 11							
											P
1											
				- 11		7					
					1						
S	ampler Ty	pe (ST):			Lab Te	sts:			Logged by:	DI	RH
-	2" Spli	t Spoon Sample	r		G - Gra	in Size			Approved t		
- [		covery				isture C				y. 33	0
- 1	1 3" Sp	lit Spoon Sample	er		☑ Wa	iter Lev	el (Dal	e of Measuremen	nt)	Α.	

				, inc		BV	9704		GP-13	É	Sheet 1 of 1
Project Nan				al Landf	ill				Surface Eleva	ation	19.09
_ocation			hington						Water Depth	(ft bgs)	4.5
Orilling Met				1.0.5" O					Start Date	Septe	mber 14, 1999
Sampling M	lethod No sai	mples - I	og inferi	ed from	MW-14				Finish Date	Septe	mber 14, 1999
Depth feet	Gas Probe Constr	undlaw	Melhane		S Blows/	Sample			Den	cription	
- Ka I	Locking, B" Stee		%		T 6"	ID	Graphi	c .			
1 2 3	Bentonite chips  Filter pack, pea g  Well screen 2" ID  PVC, 0.04" slot s  4.5 ft bgs ATD, 9	ravel SCH 40 Ize '	0			\$7		concrete a	TOP  oist; dark brown SAND  ind bricks in cutting  FILL/DEMOL  ense, damp; brown SAI	TION DEE	BRIS
000	0							Bottom of E Gas probe	Boring at 4.5 feet. installed to depth of 4.5	5 feet.	
	npler Type (ST): 2" Split Spoon No Recovery 3 " Split Spoor	Sampler			M-M Z W	rain Size oisture C	content el (Dat	e of Measur	Logged by: Approved b ement) Figure No.	y: JJ:	

AT ASS	BED ESCIE	VCEE	, inc			ot Number 97041	Well Number		Sheet
Project Nam	e South Park	Custodia	al Landfil				GP-15 Surface Eleva	tion	1 of 1
Location	Seattle, Was	hington		_		-	Surface Eleva		12.72
Drilling Meth	od Hollow Stem	Auger l	8" OD/4"			7 (8.	Start Date		6.6
Sampling Me					lb ham	mer, 30-inch drop	Finish Date		mber 13, 1999 mber 13, 1999
Depth	Gas Probe Construction	Methane	s	Blows/	Sample	MII.			mbel 13, 1999
feet	Locking, 8" Steel Monument	%	7	6"	ID	Graphic	Des	cription	
2 3	Concrete seaf	0.1		17 8 5	S-1	The Chick of the Chick	damp; dark brow	SAND; t	race gravel, trace g
4 5 5 6 V	Filter pack, pea gravel  Well screen 2" ID SCH 40 PVC, 0.04" slot size  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	0		3 4 5	S-2		e,wet; gray SAND	sand fine	to medium
3						Bottom of Boring Gas probe instal	at 7 feet. led to depth of 7.0	feet.	
	ler Type (ST): 2" Split Spoon Sampler No Recovery 3" Split Spoon Sampler			M - Mo	ain Size Disture C	ontent el (Date of Measuremen	Logged by: Approved by	RR y: JJ8	

		EART		, inc		Project	Geologic & Ga	Well Number	150100	Sheet
Project Na	ame	South Park				BVS	7041	GP-16		1 of 1
_ocation		Seattle, Was					A	Surface Eleva		19.93
Orilling Me		Hollow Stem			ID			Water Depth		8
Sampling						lh homn	ner, 30-inch drop	Start Date		mber 14, 1999
Depth	Television .	diameter, c	Methane	s	1	Sample		Finish Date	Septe	mber 14, 1999
feet		be Construction	%	T	6"	ID	MII. Graphic	Des	cription	
S	Locking	g, B'Sleel Monument				7	-69	RE	FUSE	
	Filter p	te seal ite seal ite chips iteck, pea gravel reen 2" ID SCH 40 04" stot size	0.1		4 3 8	S-1	Medium dens includes rubb	e, damp; brown SA er, MTL, plastic	ND few SI	LTS; trace debris, d
¥.	Benton 8,0 ft b	p Cap, 55 screws le chips gs ATD, 9/14/99, at 7,5 ft bgs	0.1		2 4 7	S-3	Medium stiff, v	wet; gray SILT few S	SAND; trac	ce gravel
9 BBBBB 10							Bottom of Bor Gas probe ins	ing at 9 feet. talled to depth of 7.	5 feet.	
2						į.				
4										
	ampler Typ	e (ST):			Lab T	ests;		Logged by	RI	RH
1	2" Split	Spoon Sample	r	1		rain Size loisture C		- Approved I		
Ī		t Spoon Sample	er		ΔN	ater Lev	el (Date of Measurem			
		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			T. M	/ater Lev	ei (ATD)	Figure No.	A	- 24

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- I managed to the second seco

Total Control

roje	ct Name	South Park	-				7041	GP-17 Surface Elevat	ion	1 of 1 21.11
ocati	ion ·	Seattle, Was			-			Water Depth (		14
Orilling	g Method	Hollow Sterr			ID			Start Date		ber 13, 1999
Samp	ling Method	2" diameter, S	Split Spoo	on Sample	r, 140	lb hami	er, 30-inch drop	Finish Date		ber 13, 1999
Depth	0		Melhane	s		Sample	Mtt.			10, 1000
feet		Probe Construction cking, 8" Steel Monument	%	Т	6"	ID .	Graphic	Descr		
							-6. 9	REF	USE	
1	S	ncrete seal					wood, trace gia	damp; brown SAN ss debris	D with GR	AVEL; few silt, trace
3	Ну	drated bentonile chips	0		11 12 4	S-1				Y
-							6			
5	FIN	er pack, pea grave)	0		4	S-2	- grades dense	moist 40% dabels	(conorate	brick, gypsum, metal
	: <b>冒</b> :				4 3 35		glass)	moior, 40 /8 debtis	(concrete,	blick, gypsum, metal
-		screen 2" ID SCH 40				1.0	500			4.0
		C, 0.04" slot size	0		10 28 27	S-3	Very dense, mo construction del	ist; brown GRAVEL oris (brick, concrete	with SAN	D; est. 50% sted metal)
þ				- 11			300			
0 0 0	Thr	eaded end cap, 2" ID H 40 PVC	0.2		50/3"	S-4	grades trace g	ravel		
1										
2	Ben	itonite chips								
3			0.1		1 1 3	S-5	Soft, wet; gray S	SILT; trace organics	No.	
4 🔻		i bgs ATD, 9/13/99,					- grades brown o	organic silt		
	casi	ng at 12.5 feet					Bottom of Boring Gas probe instal	g at 14 feet. led to depth of 10.3	5 feet.	
	and the same of th	Type (ST):		- transportant	Lab T			Logged by:	RR	Н
	-	plit Spoon Samplei Recovery			M - M	rain Size oisture C	ontent I (Date of Measuremer	Approved by		

District Man			AFEE	3, INC	1	BVS	7041	GP-19	5.1	. Sheet 1 of 1
	Name	South Park (						Surface Elev	ration	24.16
ocatio		Seattle, Was						Water Depti		13.97
	Method	Hollow Stem						Start Date		mber 15, 1999
-	ng Method	2" diameter, S	plit Spoo	on Sample	r, 140	lb hamr	ner, 30-inch dro	p Finish Date		mber 15, 1999
epth set	Gas F	robe Construction	Melhane	S	Blows/	Sample	Mtl. Graphic		scription	
K	A KA LOCK	ing, 8" Steel Monument	7-2-4			10		PE	FUSE	
V. 5	Hydr  Filler  Well  PVC.  13.97	pack, pea gravel screen 2" ID SCH 40 0.04" slot size aded end cap, 2" ID 40 PVC onite chips If bgs ATD, 9/15/99, g at 15 feet	0 0		786 685 663 534	S-1 S-3	yellow p	dense, damp SAND with the control of	e metal and	plastic, possibly
	Process .	ype (ST): lit Spoon Sample; ecovery				ests: rain Size	ontent	Logged by Approved		

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tripped and

role	. KI	South Park					BV	97041		GP-20		Sheet 1 of 1
1000	t Name	South Park			ndfil					Surface Elev	ation	26.37
ocatio		Seattle, Was			100	1011				Water Depth	(ft bgs)	14.5
	Method		Auger	10.5	OD	/6" ID				Start Date	Septe	ember 16, 1999
	ing Met	hod 2" diameter, 5			mple		Ib ham	mer, 3	0-inch drop	Finish Date	Septe	ember 16, 1999
epth eat		Gas Probe Construction	Methane %		S	Blows/	Sample	MII. Graphic		Des	cription	
	SIS	Locking, B' Sleet Monument		-						ubble at surface	-	
	<b>8</b>									Socio di Scrimoc		
		Concrete seal		1				0 4 4				
2		-21-		1				-0	1.0	RE	FUSE	
		AND AND AND AND AND AND AND AND AND AND	0			15	S-1	100%	Concrete a	nd rubble cuttings; de	nse, dam	o, brown SAND: lift
		Benlonite chips			M	19 15	-	800	GRAVEL; 3	80% wood, metal, pap	er debris	- C. C. C. C. C. C. C. C. C. C. C. C. C.
1						15		1000				
6					-11			100				
6	.≓.i				М			000				
3	:B:	Filler pack, pea gravel		1				7.00				7.1
3		e. peen, pea graver					- 5	200				- 3
6								P. 3 P.	84-1			
3			0			6	S-2	6				
3					M	8 23		-6	- grades mo	ist, dark brown to gra	v. few silt	50% debris wood
25	.目。	Well screen 2" ID SCH 40			Ц	25		1000	metal, pape	r, glass, ash present	// .arr ant	ou to deblis, wood
1	<b>: : : :</b>	PVC, 0.04" slot size						200				
30	日.							7.00				
20	] [ ]				Ш			100				
0	[記]						4-	-67				- '
20	目引							1000				
0	][[]	12.0-2.1	0	Las	0	5	S-4	1	wood and I	Eufalcar.		
6-		PVC slip cap, SS screws	2		19	6	0-4	700	- wood and I	brick pieces, no soil		
6	000					27		100				
¥,		14.6 ft bgs ATD, 9/16/99,	×		11			000				
		casing at 15,0 ft bgs	0.1			12	S-5	7.00	- nradae ma	dium dense, wet; blac		
			-			12 5 6		200	- grades The	didili dense, wet, biac	ic sand wi	th gravel
		16.6 ft bgs ATD, 9/16/99,			Ц		*	7000				
		easing at 17.5 ft bgs	14 ]		H			000			-	
			0.1	-x-	Н	16	S-6	200				
		Bentonite chips				9 7	1000	T.				
												الله الله
					11				rirm, wet; br	own SILT some ORG	ANICS; tr	ace sand
			3.1									
			0			4	S-7					
					1	3 4		ШЩ		э		
					H	-			Potto	2010.2145		
								1	Sas probe in	oring at 21.5 feet. stalled to depth of 13.	3 feet.	
										V 4 (32)	200	
	destrict.	r Type (ST);				Lab To	ests:			Logged by:	RF	RH
	-	Split Spoon Sampler					ain Size			Approved b		
	CTC .	Recovery					oisture C					
	1 3	Split Spoon Samples	Ď.			× VV	ater Lev ater Lev	el (Date	of Measurer	ment) Figure No.	Α.	

	BESCIE	vces,	INC		Project BVS	7041		GP-21		Sheet 1 of 1
Project Name	South Park (	Custodial	Landfill					Surface Eleva	tion	23.37
Location	Seattle, Was	hington	P					Water Depth		13.7
Drilling Method	Hollow Stem							Start Date	O Table	ember 15, 199
Sampling Method	2" diameter, S	plit Spoon	Sample	r, 140	lb hamr	ner, 3	0-inch drop	. Finish Date		ember 15, 199
Depth Gas I	Probe Construction	Methane	s	Blows/	Sample	MII.			cription	
	king, 8" Steel Monument	%	T	6"	ID	Graphic			a puori	
-	crele seal					0000	GRAVEL with S	AND		ā
	ordie seal		- 11			0.00				
- 🛭 🕽			- 11			-6		REF	USE	
Ben	tonite chips	0		3 7 43	S-1	Chicker Ch	Very dense, mo SILT; 40-50% w	ist; dark brown to lood and trace me	black SA etal, plast	ND with GRAVEL ic, and paper
-						1	- cuttings gerne	rally 90% wood, tr	ace meta	al, rubber, and pap
	r pack, pea gravel	0	2	12 9 23	S-2	E. C.	- 90% wood with	n few sand, trace	silt	ψ.
	screen 2" ID SCH 40 , 0.04" slot size					C4-64-66	- drills easier at	11 feet		
	slip cap, SS screws	0.1	H	7 15 15	S-3	CE				
	ft bgs ATD, 9/15/99					C.F.				12.5
-15 Beni	onite chips	0.2		3 4 4	S-4		Stiff, wet; brown	SILT with 30% O	RGANIC	\$
					ž.		Bottom of Boring Gas probe instal	at 16.5 feet. led to depth of 13	.3 feet.	×
No.	olit Spoon Sample	r		G-G	ests;			Logged by		RH JS
	Recovery plit Spoon Sample	er		ΔV	loisture ( Vater Lev Vater Lev	el (Dat	e of Measuremen	12/4/11/4/19		28

			NCES	and the same of th			ot Numb 97041		GP-22		Sheet 1 of 1
	ct Name	South Park							Surface Elevi	ation	21.94
Locat		Seattle, Wa							Water Depth		
Drillin	g Method	-	Auger	10.5" OD	/6" ID				Start Date		tember 16, 1999
Samp	ling Meth		Split Spoo	n Sample	r, 140	lb hami	mer, 30	0-inch drop	Finish Date		tember 16, 1999
Depth			Melhane	s	Blows/	Sample	7				10, 1998
feet	KAL KAI	Sas Probe Construction Cocking, 8" Steel Monumen	%	T	6"	ID.	Graphic	0		cription	
		4		- 11			000		RE	FUSE	
		Concrete seal						- cuttings conta	s includes wood, r	netal, pl	with GRAVEL and astic, copper wire ce paper, fiberglass
			0	22	14 19	S-1	193	roofing			Falsa, Institutos
		Bentonite chips			4		200				
-5 -							C. C.				
-		Filter pack, pea gravel					200	Medium dense	moist SAND with	SII TO	0% wood, trace glas
_		Well screen 2" ID SCH 40 PVC, 0.04" slot size	0		6 5 7	S-2		recovery	viol Onli Will	OILT, O	o ve wood, trace glas
-10			0.1	z	6	S-3	200	Medium dense.	moist SAND little	GRAVE	L; est. 50% wood, m
		PVC slip cap, SS screws		4	9		1	plastic; low reco	very	0.0.0	c, est. 50 % wood, 11
Ā	1	2.7 ft bgs ATD, 9/16/99, asing at 15.0 ft bgs	0.2		26 8 2	, S-4	1	- no recovery			(4)
15	E	entonite chips	0.1		14	S-5	FICE	firm? no reason	c. usi		÷
					4		The same	milit no recove	ry - driving on wo	Da l	
							E	Bottom of boring Gas probe install	at 16.5 feet. ed to depth of 11.	3 feet.	
	Printers.	Type (ST):			Lab T				Logged by:	R	RH
	P	Split Spoon Sampler				rain Size			Approved by	y: J.	JS
	- Indiana	Recovery				oisture C		of Measuremen			
	3"	Split Spoon Sample	r.		₹ M	afet reve	el (Date	of Measuremen	t)		

ocatio Orilling	Method	South Park C Seattle, Was	ustodia	11 100			7041	GP-23	1 of 1
ocatio Orilling Samplin	n Method	Seattle Was		al Landilli				Surface Elevation	
Samplin Depth		oudillo, vido	hington					Water Depth (ft b	
Samplin Depth		Hollow Stem			/6" ID				September 20, 1999
Depth	ng Method					b hamn	ner, 30-inch drop		September 20, 1999
	-		Methane	s	Blows/	Sample	MIL.		
K		Probe Construction cking, 8" Steel Monument	%	Ť	6"	1D	Graphic	Description OF Descri	
1 2 3		oncrete seal entonite chips	D		5 9 12	S-1	00000000000000000000000000000000000000		vn SAND; sand fine to medi
4		ller pack, pea gravel fell screen 2" ID SCH 40 VC 0.04" slot size			2 6 6	S-2	- grades damp	to wet, dark brown to	black sand
6	0	0 ft bgs ATD, 9/20/99						÷ 61—— 1	
7	ř.						Bottom of borin Gas probe inst	ng at 6.5 feet. alled to depth of 6.3 fe	eet,
8									
9									
				1					DO!!
	2000	r Type (ST):				Tests:		Logged by:	RRH
	-	Split Spoon Sample	er			Grain Siz Moisture		Approved by	: JJS
	☐ No	Recovery					vel (Date of Measurem	cnt)	
	1 3	Split Spoon Samp	ler			Mater Le	vel (ATD)	Figure No.	A - 30

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**Historical SPPD Soil Borings** 

ASSOCIATED SCIENCES, INC TXH/SLL South Park Custodial Landfill KING COUNTY, WASHINGTON 1-5 00/00/00 VB974IG Geotechnical Boring Location Map Ditch (Approximate, based on basemap and air photo). King County Property Line AESI Geotechnical Soil Boring LEGEND F:1 00040040 gwb.Lur-fab/tedv starx gwb.es-df476dv

Man		AB	BOCIATED	B 1	Exploratio	n Lo	q					
			ENCEB, INC	Project Number BV97041	Exploration No	ımber	Per la constantina					-
roject l	Name		South Park Cur		SB-26						4	
ocation			Seattle, Washir	aton.		Groun	d Sur	face Ele	evation (	ft)	26±	
Driller/E	quipm	ent	Cascade Drilling/H:	SA 8" OD/4" ID above 25' · Mi	d Rotary below 25'	Datum Date S		Intab	04/04	10000		
lamme.	rWeig	ht/Drop	_140 ID / 30-INCH			Hole D	iamel	er (in)	01/31/	2000	-01/3	11
		1	This log is part o	f the report prepared by Assoc	risted Earth Sciences			- hay	4-1	HOH		
Œ	83	0.0	(AESI) for the na	med project and should be re	ad together only with that	E						T
Depth,	s du	aph	location of this e	xploration and at the time of e	xploration. Subsurface	Well	30		Rlowe	/East		1
De	Sar	500	data presented a	nange at this location with the	passage of time. The	N de	Blows/		DIOWS	/ OUL		1
	25		1	DESCRIPTION	numons encountered.	- 3	m			ay.		1
	1	000						10	20	30	40	1
		200	Manufe of the Control			1						T
- 1		0	wood, paper, and br	st, dark brown REFUSE in silt	matrix; refuse includes				- 1			1
1		- A		34		NX4		- 1		1		
	7					8888			1.	~	1	
P	4 S-1	0					22					1
C		and					19			-		
_	Seattle_Washington: Cascade Drilling/HSA 8" OD/4" ID above 25"; Mud Rotan 140 lb / 30-inch  This log is part of the report prepared by Associated Et (AESI) for the named project and should be read toget feport for complete interpretation. This summary application of this exploration and at the time of explorations may change at this location with the passage data presented are a simplification of actual conditions may change at this location with the passage data presented are a simplification of actual conditions.  DESCRIPTION  REFUSE  Medium dense, moist, dark brown REFUSE in silt matrix; refuse incompany concrete and metal  Dense, moist, dark brown REFUSE in silty matrix; refuse incompany concrete and metal  Medium dense, wet, dark brown SAND with organic SILT; to No recovery			,0								
		2013										
5		4.							1			
		B 1 4										1
												1
	1	A 6		0							1	
		20								1		
	S-2	1	No recovery				В					1
C	1	mi a					7					1
-	1	200			7		5	A				
		100							01/31/2000-01/3 4-inch  Blows/Foot  20 30 40  50+			
10									1	tion (ft)		
		000				- 010000	1					
		APPA.								1		
		100	5				- 1	1	1			
		6						- 1				
7	S-3	1	Dense moist dark be	own DEELICE in aller and	12' ATD		9	- 1				
12		041	paper, concrete and r	netal	efuse includes wood,		12	1			50+	
O		. 0				4	10	- 1				ĥ
		10 1							1			
15		100				11 . 18		- 1	11. 1			
			Medium dense, wet, o	lark brown SAND with organic	SILT: trace wood				4		1	
		$\mathbf{H}\mathbf{H}$			Service Head							
		1111				1	X.					
0	S-4								1 1			
24	-					8		Δ				
0						1			1			
						1. 8					1	
0 H												
	S-5		No recovery		-	11	0					
0		Ш	and the W			. 9		1				
H			Stiff wet brown are:	CII Ti trans		6		A		1		
	- 1		Stiff, wet, brown-gray	DIL 1; trace organics		( )			-			
77	S-6											
	0-0				1	3						
. 1						7		4				
2				4				1				
				-1			1					
Sample	er Typ	e (ST):		Lab tests:		il d		1				
1777		covery		C - Chemic	al Properties							
	2" Spl	it Spoor	Sampler	P - Permea M - Moistur	bility						RH	
prompt.		Sample		M - Moistur	e Vater Level				proved		JS	
9				▼ Water L				Ci	gure No.		- 39	

1			ASE	OCIATED _	2	Exploratio	n Lo	og						
	_			TH ENCEB, INC	Project Number BV97041	Exploration Nu	mber					heet of 4	-	
rojec	t Na	me		South Park Cu	stodial Landfill	SB-26	Grou	nd Sur	face El	evati			26±	
ocati	no		24	Seattle Washi	ington:	IB C III C	Datu	m _			- 1			
Driller/ Hamm				140 lb / 30-inc	ISA 8" OD/4" ID above 25'; Much	1 Rotary below 25'		Start/F Diame	inish ter (in)	01/	4-in	000	-01/31	1/200
	П	_		***************************************		iated Farth Sciences		1 1		*********		-		
#	П	S	5 2	(AESI) for the n	of the report prepared by Associamed project and should be realete interpretation. This summa exploration and at the time of ex change at this location with the are a simplification of actual cor	d together only with that	0			5.				
Depth, ft	s	Samples	Graphic Symbol	location of this	exploration and at the time of ex change at this location with the	ploration. Subsurface	Well	Blows/ 6"		Blo	ws/F	oot		
De	S	Sa	00	data presented	are a simplification of actual cor	nditions encountered.	178	Ö						
	b)	0.0			DESCRIPTION				10	2	0 3	0	40	
		S-7		red grains visible	et, brown SAND; little silt, sand fi	ne to medium, angular		6	1	7		Į,		0
	0						9.4	6						
	П													ľ.
		0.0		Madium danas ius	at black CAND; send for to see	Company of the second		9						
		S-8		medium dense, we	et, black SAND; sand fine to med	num, angular grains		11	2 4		A		1	
	-10						-	12			-			
	П						-200	0						
30					*	1.7	-	В	- 7					
		S-9						7		A	- (			1
	0						M.	10	1					
	П				7				1				1/ 3	
	Ш			_ 5			1							
	Ш			3					1					1
	Ш						300	3						
														1
35		S-10		-orades dense, pre	edominantly medium sand		-	13						
	1	0,10		grades apriles, pre	Total Carlo		0	16				<b>A</b>		
	0		6.5									1		
					1		0.1		4 1					
			1.10									Î		
			30						. 1					
			3		W.									
40	7	S-11				-	=	17 21			4. 3			
	12						1	21			1 3		A	
	9													
					•		8		1					
			6.5											
							5.6				1		1	
AF														
45		S-12		Dense, wet, black	SAND with SILT; silt contains at	oundant organics	1	12						
	K							21	y T			Ī	1	
	F			*					. 1					
				Dense, wet, brown	SAND; few silt, sand predomina	antly fine								
									1					
					×-	+								
														150
0	amr	ler T	ype (S	D:	Lab tests:	- Annual Control of the Control of t		5						
3			ype (S) Recove		C - Chen	nical Properties				1	amad i	200	520	
	D			oon Sampler	P - Perm M - Moist						gged b prove		RRH	
			b Sam		☑ Statio	Water Level	/435				ure N		A - 39	9
					y vvate	r Level at time of drilling	(AID)			_				

MA		A		BOCIATED	Project Number	Exploration	n Lo	g				
			deci	ENCES, INC	BV97041	Exploration N SB-20					Sheet	
Projec		ame		South Park Cus	stodial Landfill	0B-20	and the state of	nd Su	rface El	Guatian	3 of 4	
ocat		inme	nt	Seattle, Washin	aton.		Datur	m		evation	(II) _	26±
			nt/Drop	140 lb / 30-inch	SA 8" OD/4" ID above 25'; Mu	ud Rotary below 25'	Date	Start/F	inish eter (in)	01/3	1/2000	-01/3
			Г	This log is part of	f the report prepared by Asso	ciated Earth Sciences	11016	Tante	iter (m)	4	-inch	
=		es	o ic	(AESI) for the na	f the report prepared by Asso med project and should be re ete interpretation. This summ xploration and at the time of e thange at this location with the re a simplification of actual co	and together only with that	E			B		
Depth, 1	s	Samples	Graphic Symbol	location of this ex	coloration and at the time of e	exploration. Subsurface	Well	/sv		Blow	s/Foot	a N
Ö	T	Sai	00	<ul> <li>data presented a</li> </ul>	re a simplification of actual co	e passage of time. The onditions encountered.	N d	Blows/				
					DESCRIPTION		3	-	10	20	30	40
		S-13		Dense, wet, brown S	SAND; few silt, sand predomin	nantly fine		19	-		30	1
	10							16			-	
	0							14	1	1	1	
	11										1	1 1
			30	40	100							
	11											
	11		111									
	11			Dense, wet, brown S	AND with SILT; silt contains a	abundant						
55	7	S-14		and another of	Than Oil , sat contains a	abulluant organics		12				
				1				14				1
		F		* 3				18			A	
	11			*	4-							1 1
			가가									
	11			Medium dense, wet, I	black SAND; trace silt, trace v	wood, sand	1.43					
	1			predominantly fine to	medium	Sea Walang						
60	7			- P								
	Ø:	S-15						14			1	
	A			3				16		4	4	
	1		79.0		-5		8					
ŧ.		1					8					
				100								
				4			1					
7	11						1 1					
S.F.			==	Stiff wat house	unin Cil Time .	Take only a re-	ş# 38					
65	3	-16	三	oun, wet, brown, orga	nic SILT with brown SAND in	terbeds; sand fine		8	1			
			語	40				5 12		A		
	Ω		芸					-				
	11		===									
		E	===				8 8					
		1		-			y, ry					
		E		-1								
		E							1			
0	s	-17		Soft, wet, brown organ	nic SILT	4		2				
		E			St. 54.52.			1				
	4	1	===	70	7		1	3	4	1		
		1		2,2								
		1.5		150		1	Ş- ]}				1 1	
		1	===								1 1	
		1.5		200	4.		§ §					
		1.1.1	===									
San	onle	Tue	(ST):		121121		garanter G					
C	7	1.15	covery		Lab tests:	cal Properties					·	
	~			n Sampler	P - Perme	ability			-1	ogged	by: F	RRH
0			Sample		M - Moistur	re Water Level			1	pprove	d by:	JS
10	1		- milipid		- Statte	vvater Level Level at time of drilling (A			T.	igure N		4 - 39

	BBOCIATED		Exploration	n Lo	g			
	BBOCIATED ARTH CIENCEB, INC	Project Number BV97041	Exploration Nu	mber			Sh	eet of 4
Project Name	South Park C	Custodial Landfill	SB-26	Grou	nd Surfac	ce Elevat		26±
Location Driller/Equipment	Seattle, Was	hington; n/HSA 8" OD/4" ID above 25' ; Mu	d Datas Lid. BSI	Datur	n			
Hammer Weight/D	op 140 lb / 30-in	ich	d Rotary below 25		Start/Fini Diameter	ish <u>01</u>	/31/20 4-inc	00-01/
	This log is pa	rt of the report prepared by Assoc	iated Earth Sciences	T		10.0		
h, ft	report for con	rt of the report prepared by Associan named project and should be reamplete interpretation. This summars exploration and at the time of exact change at this location with the exact a simplification of actual co	ad together only with that iry applies only to the	Well	-	Di		
Depth, ft	conditions ma	ay change at this location with the	passage of time. The	Wel	Blows/ 6"	BIG	ows/Fo	oot
2 1 8	Gata prosont	DESCRIPTION	nomons encountered.	- 3	m	10 2	0 30	40
S-18 -	Soft, wet, brown				7	10 2	0 30	40
	Dense wet been	E CAND THE E		1	7 25		1	4
P I	Dense, wet, brow	vn SAND; sand fine to medium		13	27			
			0					
			5	- 22				
	-		1					
80 S-19	grades very den	se, black, angular grains	1.0	-	17			
				Ì	29 28			50
0				3				
		*						
	- Vancetiff wat be	ann aren errenia DII T. f		3				
	very stin, wet, or	own-gray, organic SILT; few sand						
85 S-20					18			
					17		4	1
M E								
				, i				
	콬			800				
	母							
90 S-21	Soft, wet, brown	organic SILT			0			
	·: Medium dense, v	vet, gray-brown SAND; few silt, tra	ice shell fragments		8	4		
5	3							
		*					-	
	A	*						
		4						
	Very dense, wet,	gray SAND with GRAVEL; trace s	silt, trace shell fragments					
95 S-22	1	*	-	4	19			
	Dotters of tree	-1 05 fa-1			26 25			50-
8	Bottom of boring	at 95 feet.						
Sampler Type (	ST):	Lab tests:	State of the second	لمبا				
No Reco	4 1 4 5 1	C - Chem	ical Properties eability			Log	ged by:	RRH
2" Split S	Spoon Sampler	M - Moiste			4		roved b	y: JJS
O Olau Sa	- Inpic	▼ Water	Level at time of drilling (/	ATD)		Figu	ire No.	A-3

1		A	BOCIATED			Expl	oratio	n Lo	oa					_
			BOCIATED RTH IENCES, INC	Project N BV97		Exp	Ioration Nu	mber	-			Shee		
Project		е	South Park Cu	stodial Landi			SB-27		nd Surf	face Ele	Valia	1 0		_
Location Driller/l	Equip	ment	Seattle, Washi Cascade Drilling/I-	ington.		Date	201	Datun	n				_34±	-
Hamm	er We	ight/Drop	140 ID / 30-Incl	n				Hole I	Start/F Diamet	inish er (in)	02/0	1/200 -inch	0-02/0	1
	П		This log is part (AESI) for the n report for complication of this e conditions may data presented	of the report pre	pared by Associ	ated Earth Sc	iences			10.7		THON		7
Depth, ft		Graphic Symbol	report for complication of this	lete interpretation	n. This summar	d together only applies only	y with that to the	Well	76		5.	-		
Dep	SI	Gra	conditions may data presented	change at this lo	cation with the	passage of tin	ne. The	Wel	Blows/ 6"		Blow	s/Foo	ot	1
				DESC	RIPTION	The Chicou	moreu.	S	ш	10	20	30	40	
			4 397	V		-		W			1	+	1	+
		111111	Stiff, moist, brown \$	SILT; trace grave	el									
		-												
	S.	.1		50					13					
1 4	O								16		116	A		
	9	ШШ												
5														
		200	2	RE	FUSE									
		10								1				
		-60	14			3.					1			
	Z S-	2	Very dense, moist, I paper, plastic and w	brown REFUSE	in silt matrix; ref	use includes	glass,		50/5"			9	50+	1
		-600					2.1				1	11		1
		1000												
10	1	200	-		-				- 1			1		
	1	8.30	3.											
		200	¥ 1							1				
Z	5 s-3	1000												
K	2 5-0	100	-wood in silty matrix				- 7	5	0/6"			1	50+	9
		100	18,00					k İ						
		10	\$ ***											
15	S-4	56.3	No recovery		.91		-	5	0/1"				50+	1
1		6	*				_ 1							1
		500												
	S-5	100	-wood, trace slit						12					
K	2	200							8	-	A			4
	1	1.10					0					1		
20	S-6	200	-wood in silt matrix; c	rnocol- III					0/6"					
100	3-0	1.30	-wood in silt matrix, c	reosote-like odo	r		- 15	31	0/6"				50+	0
		00												
		7.01												
		100												
		100			- 20									
		1			-	2	3.8' ATD *	Į.		1			П	
Samp	ler Ty	pe (ST):			Lab tests:					1				
0	No F	Recovery			C - Chemica	al Properties				Ť	0000-	bur	DEL	
			n Sampler		P - Permeal M - Moisture						ogged oprove		RRH	
	Gral	Sample				ater Level evel at time of	drilling (A)	יטו			gure N		A - 40	

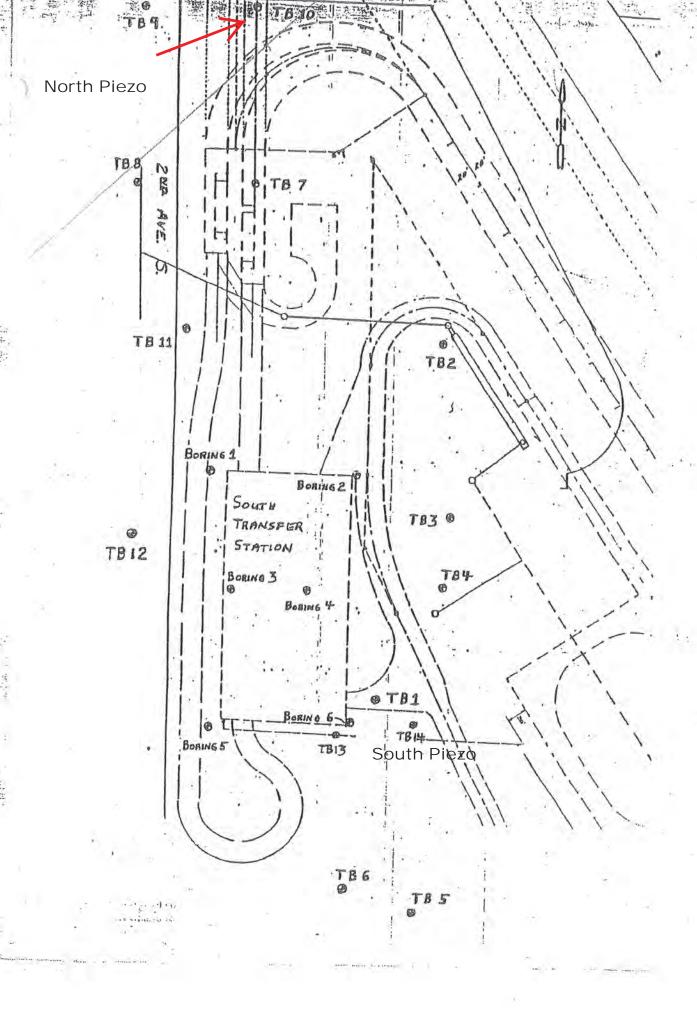
	4	7	EAF	IOCIATED ITH ENCES, INIC	Project Number	Explorati Explorati	ion Nur	nber	4			Sheet		_
Projec	t Na	me			BV97041 istodial Landfill	SE	B-27					2 of		
Locatio	on		1	Seattle, Wash	ington:		_	Grou		face El	evation	(ft) _	34±	_
Driller/ Hamm	Equ	ipm Veig	ent ht/Drop	Cascade Drilling/F	ISA 8" OD/4" ID above 30';	Mud Rotary below 30'		Date	Start/F		02/01	/2000	0-02/0	1/2
	7		The state of				-	Hole I	Diamei	er (in)	_ 4-	inch		-
世		Se	o lo	(AESI) for the r	of the report prepared by A: named project and should be lete interpretation. This sur exploration and at the time change at this location with are a simplification of actua	read together only with	h that	. uo						
Depth,	S	Samples	Graphic Symbol	location of this conditions may	exploration and at the time change at this location with	of exploration. Subsurfathe passage of time.	ace	Vell	Blows/.		Blows	/Foo	t	1
Ď	T	Sa	QN	data presented	are a simplification of actual DESCRIPTION	conditions encountered	ed.	Well	B					
	0	S-7	200	-wood and plastic;		V			50/5"	.10	20	30	40	
	П		1000	• • • • • • • • • • • • • • • • • • • •	277	×		\ \(\frac{1}{2}\)	50/5				1	1
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	П		mif	SILT						- 1			4	
							±		. 1				4	١.
			1111111									4	1	ľ
	П													
30	H	S-8		No recovery - trace	brown sill		4		5			4		
	0		ШШ				E		7		4	1		
	H		1111111										1	
			ШШ						1					
				v d										
	1											1		
35		S-9	쌜	Stiff, wet, brown SI	LT with high organic conten				3					
ř.			量		Tea.				3 B	4				
	Q											1		
	П								ż					
	П			F.		(4)			.	-				
	П		題											
40			国							1				
40		S-10		Very dense, wet, bl grains	ack SAND; sand predomina	ntly medium, angular, r	red		24 26			P	50+	
	0			granio			4		28		110		1	7
	Ĭ			3,7							- [			
	П							H				1		
	П								- 1					
											1			
45	77								91					
		S-11		-sand grades fine to	medium, trace wood		~		28			1	50+	
	M							5	0/5"	11			1	
				-										
							٠							
	11				*									
0-	Щ													
	-		rpe (ST) Recover		Lab tes	s: emical Properties								
	778			on Sampler	P - Pe M - Mo	rmeability					Logged		RRH	
	-		Sampl		∑ St ∑ W	atic Water Level					Approve Figure N		JJS A-40	

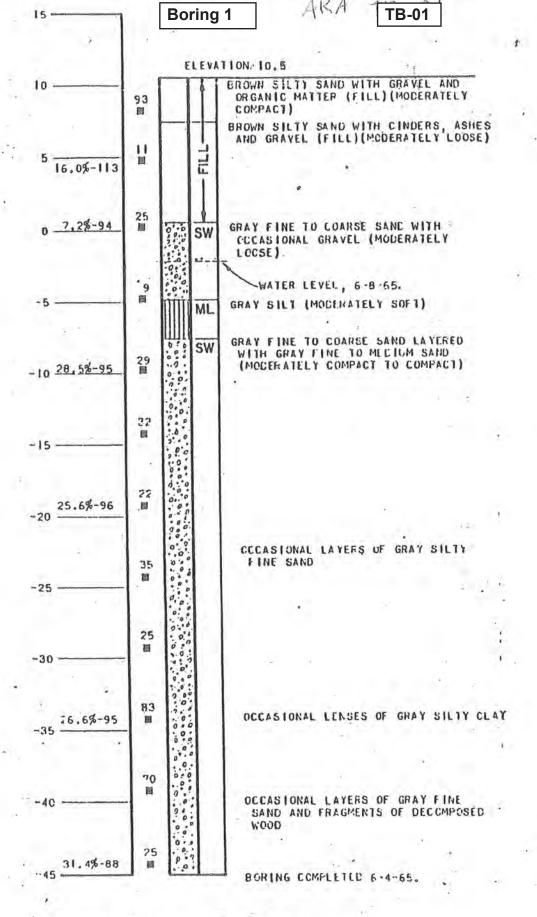
M		Control of the last	ABS	BOCIATED		Explo	oration	n Lc	pq					
			SCI	BOCIATED TH ENCES, INC	Project Number BV97041	Explo	oration Nu	mber				Sheet		
Proje	ct N	ame		South Park Cus			SB-27	and the same of th				3 of		
ocat	ion			Seattle, Washir	oaton:					rface E	evation (	ft) _	34±	
Driller	/Eq	uipme	nt	Cascade Drilling/H	SA 8" OD/4" ID above 30' : M	lud Rotary below	30'	Datum Date :		Finish	02/01/	nnn	02/0	4
lamn	ner l	Weigh	nt/Drop	140 lb / 30-inch						ter (in)		nch	2-02/0	1
				This log is part of	of the report prepared by Asse	nciated Earth Sole	20000	1				1011		_
=		S	0.5	(AESI) for the na	of the report prepared by Assamed project and should be re- ted interpretation. This summand the time of a change at this location with the are a simplification of actual control of the change at th	ead together only	with that	E						
Depth, ft	0	Samples	Graphic Symbol	location of this e	xploration and at the time of	exploration. Sub-	to the surface	etio	ls!		Blows	/Foot	F	1
Del	S	San	500	data presented a	change at this location with the	e passage of time	e. The	Weldin	Blows/		2.0110	, 00		1
		0,			DESCRIPTION	onditions encoun	itereu.	Well	ш	3.6	2.3	55.		1
	0	S-12	2.30	-sand predominantly						10	20	30	40	
	1			prodottimatic	, mediam			7	27 35				50+	1
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				NO STATE OF THE PARTY OF THE PA	10									
				Drills easier at 53 ft.										1
	11								1					1
		4		÷ 4				y y	1.				3	1
55	1	S-13		Medium dense wat	gray-brown SAND with SILT	and the	7,00	1	14	1		1		1
	h	- 13		wer,	Sigh-prover SWIND MITT SIFT	, sand tine		£ 1	17			4		1
	- M								12	- 1		1		ı
	П							į						1
				1				( )						1
				1		7.		Y - Y						1
				1			1	1 3				1		1
				Drilled soft from 55-6	20 H		7	}		1		1		1
				Crined SOIL HOM 35-t	oo it.			1		1		1		
60	0	S-14	THIT	Dense, wet, brown S	AND with SILT, with ORGAN	ICS: with ell lets	rhade	1	9		1			1
	M			sand fine	· · · · · · · · · · · · · · · · · · ·	and and	ibeus,		9		1	1		
	Ø			4				1 3	21					
				1 1 1 1 1 1 1								1		
				177										
							*	5 3			1		1	
											1	1	1 1	
65			1111	40.1				114						
00		S-15		Very dense, wet, dar	k gray SAND; few silt, trace s	hell fragments. s	and fine		16				50+	
	M			to medium	A Company of the Comp	e minima) e		(-1)	26				304	A
	H							2						
		1		840										Ü
	11	1						, V			1			
	11											1		
								3						
								18		1				
70								2			1		1 1	
10	Ø:	S-16		Dense, wet, dark gra fragments	y SAND with SILT interbeds;	trace organics ar	id shell		15					
	1			maginems					19 27				<b>A</b>	
	H							1						
		1		1										
								V 8						
													1. 1	
		1						8 8						
90	mole	T.	e (ST):		Table 3									
	-		e (ST): ecovery		Lab tests: C - Cher	nical Properties								
8	771		7-1-6	n Sampler	P - Perm	neability					Logged b		RRH	
U	-		Sample		M - Mois	ture c Water Level					Approve		JJS	
		-100	Jampie		∑ Statio	er Level at time of					Figure N	0.	A - 40	

		E	sbociated Arth Ciences, inc	Project Number BV97041	E	loratio	mber	19	T		Sheet	
Project	Name			stodial Landfill		SB-27	Circu	-40	of a set		4 of 5	
Location	n		Seattle, Wash	ington:			Datur	na Si n	mace E	levation (f	t) _3	4±
Driller/E Hamme	quipr	nent	Cascade Drilling/F	ISA 8" OD/4" ID above 30' : N	flud Rotary beli	ow 30'	Date	Start	Finish	02/01/	2000-0	2/01/
namme	i vve	ignvor					Hole I	Diam	eter (in)	4-ir	nch	
			This log is part	of the report prepared by Ass amed project and should be r lete interpretation. This summ exploration and at the time of change at this location with the are a simplification of actual of	ociated Earth S	Sciences						
Depth, ft	ST	Graphic	report for comp	lete interpretation. This summ	nary applies or	nly with that	Well	_			arve o	
ept	ST	arap de la	conditions may	change at this location with the	exploration. S	ubsurface time. The	Vell	Blows/		Blows	Foot	- 1
۵	T	9 00	data presented	are a simplification of actual of	conditions enco	ountered.	> FO	B				
	7/5	15		DESCRIPTION			0		10	20	30 40	
	S-	17	very dense, wet, d	ark gray SAND with SILT lam	inae			38		(8)	1	50+
	4						8 1	43			1 1	4
-			S-1				1				1 1	
								J Y				
											1 1	- 1
			8							- 1	1 1	
- 1							2.1					
							1					
80	S-	18	Soft, wet brown OF	GANIC SILT				1			1 4	
	1		- Total Mot Diowill Of	O. HIJO OILT			1	1				
-	8							1	A		1	- 1
		===	3									
			喜						(			
		==									1 1	
1			3				3			× 1		
		==	3									
85		==										
00	S-1	9	Dense, wet, brown	SAND with SILT; trace shell for	ragments			9				
E	3							23			1	A
1	Ø,		1.									
			1:1									
			11									
			6				1					
		111										
		111				4						
90	S-2	0	Very dense wet de	irk gray SAND; few silt, frace :	chall fer			35				
E	1		, or, across, wet, de	and arund tem sill trace :	sileii fragments	5	9	40			3	50+
K	2						( )	41				T
							V = V					
1		1111	<u> :</u>									
	1						( )					
			1		-		ţ ţ					1
			1				1					
95		1					4 4					
35	S-2	1	Very dense, wet, gra	ay to brown SAND with ORGA wood, sand fine to coarse	NIC SILT Inter	beds; trace		21	1			0+
1	4		snell fragments and	wood, sand fine to coarse				24				4
-	4	1:1	.[]									
			:				(					
			H				8			1 1		
			.]]				X X					1
			1									
. 1		13.	:				3					
Same	nler 7	ype (S	TD:	7-6-6-			1					
Sam		0.		Lab tests:	nical Propertie							
		Recov	A 75 - 1	P - Pem	neability	9				Logged by	y: RF	RH
100			poon Sampler	M - Mois	ture c Water Level					Approved	by: JJ	
	Ole	b Sam	ihie	☑ Stati	c Water Level or Level at time					Figure No	Λ.	- 40

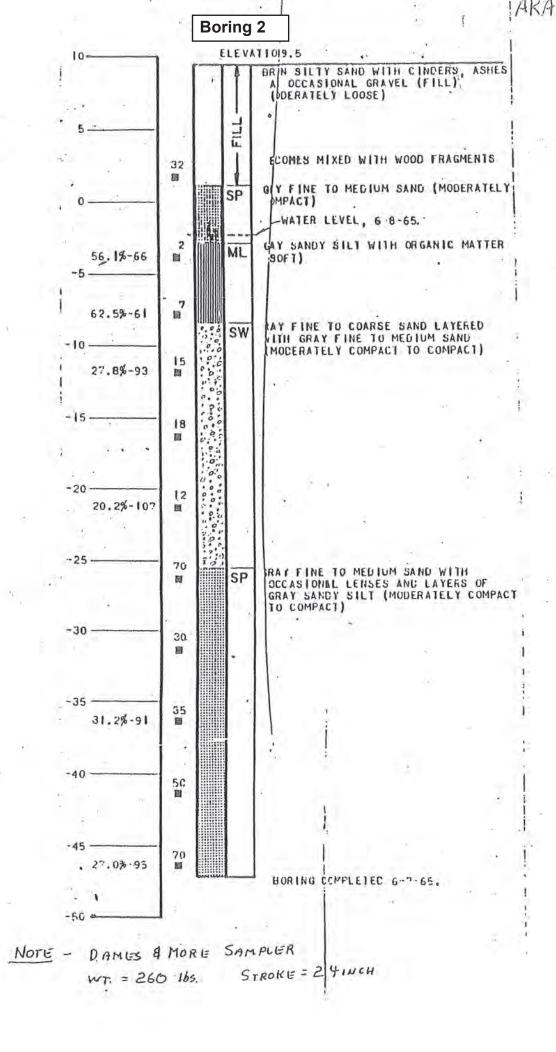
F		177	ABE	OCIATED	B	Explorati	on Lo	og		,		
			SCI	TH ENCES, INC	Project Number BV97041	Exploration	Number				Sheet	
	t Nam	e ·		South Park Cus	stodial Landfill	SB-2		nd Su	face F	evation (	5 of 5	
Locati				Seattle, Washir	naton:		Datu	m m	iace El	evation (	n)	34±
Hamm	/Equip	ment eight/f	Dron	Cascade Drilling/HS 140 lb / 30-inch	SA 8" OD/4" ID above 30'; Mi	ud Rotary below 30'	Date	Start/F	inish	02/01/	/2000	-02/01
	1 1	- ignivi					Hole	Diame	ter (in)	4-1	nch	
4			_	(AESI) for the na	of the report prepared by Asso amed project and should be re- ete interpretation. This summ exploration and at the time of e change at this location with the are a simplification of actual co	ciated Earth Sciences						10
F.		Granhic	Symbol	report for comple	ate interpretation. This summ	ary applies only to the	di G	70		Di	-	
Depth,	S	Gran	Syr	conditions may d	change at this location with the	passage of time. The	Wei	Blows/ 6"	1	Blows	root	1
-	11	0		Desa presented a	DESCRIPTION	onditions encountered.	Well completion	m				
	S	22	77.	Dense wet gray St	AND; few silt, shell fragments	1 40 9			10	20	30 4	10
		T	m	Very stiff, wet, grav	SILT with CLAY, with SAND;	sand fine	-	42 10		A		
	8				A STATE OF THE STA	yana mig		6		-		
	11	1	ЩL				Ž					
		1		-gravels								
							<u> 1</u>					
			111									
				Very dense, wet, gra	ay SAND with SILT; sand pred	lominantly fine	1. 1					
105		1		4 4 1 2 2 2 3 3 3			1					
0.50	S-	23						50/5"				50+
				Bottom of boring at	105 feet						1.	IT
	11		}	- Financial of boiling at	INV INVI							
			1	7 9	41							
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П				100							1	
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	pler T				Lab tests:	- IB // //						
0		Reco			C - Chem P - Perme	ical Properties			- 1	Logged b	V: F	RRH
				n Sampler	M - Moistu	ire				Approved	7.	JS
11.7	Gra	b Sa	npie		∑ Static Water	Water Level Level at time of drilling				Figure No		A - 40

**Historical SRDS Soil Borings** 

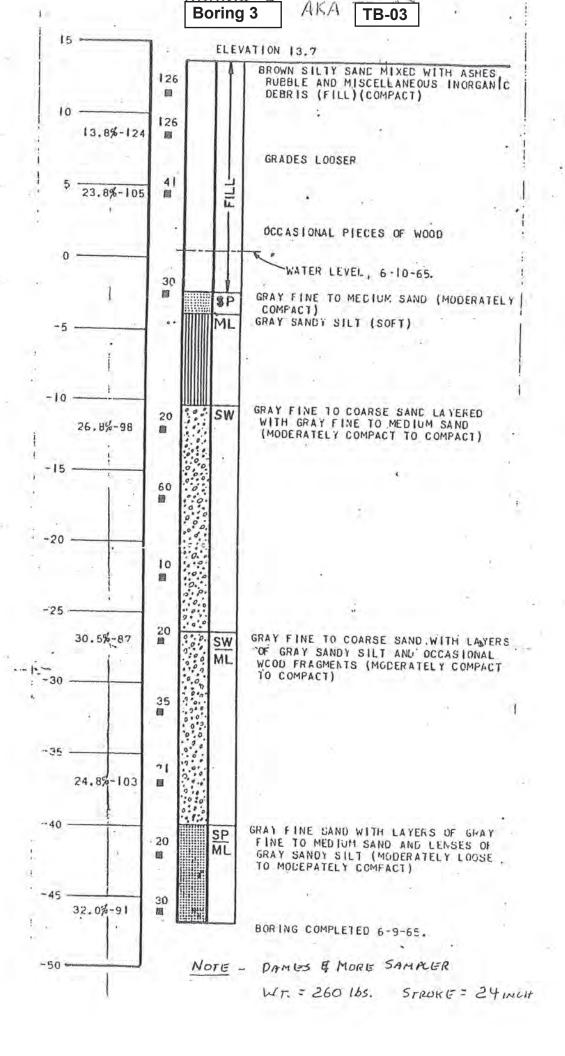


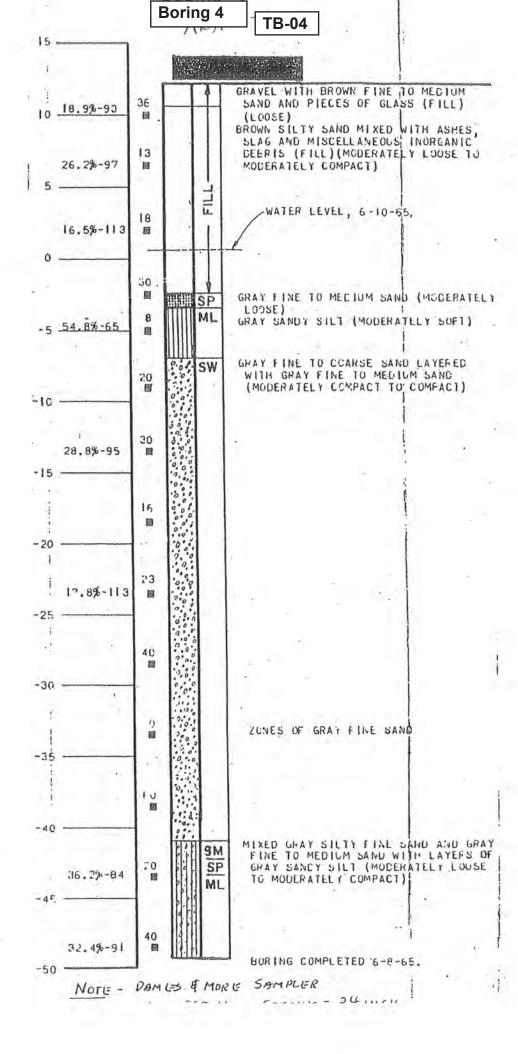


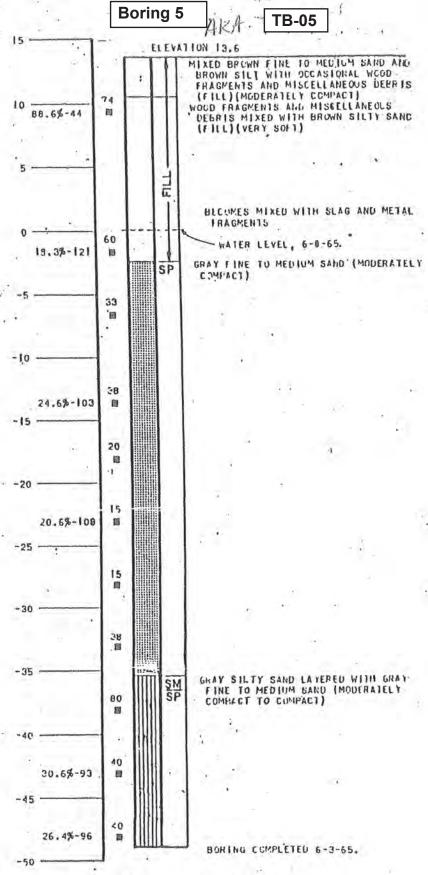
NOTE - DAMES & MORE SAMPLER WT. = 260 lbs. STROKE = 24 INCH



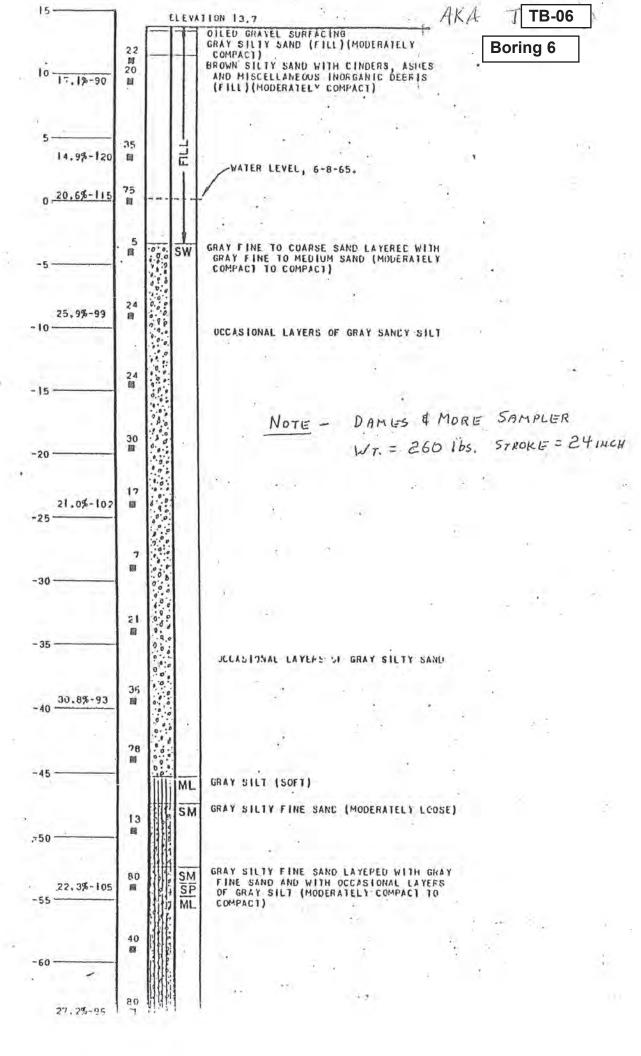
**TB-02** 







NOTE - DAMES & MORE SAMPLER
WT. = 260 lbs. STROKE = 24 INCH



**TB-08B** 

## LOG OF TEST BORING AKA

TB-08B

DATE 12-23-88

HOLE NO TB2

PROJECT SOUTH TRANSFUR STATION - DISTUMBON STORAGE

GRD. ELEY. 12 ±

LOCATION NORTH LOCATION - IN BRASS STRIP

STRATA	DEPTH	5.	HO.			WO		DESCRIPTION	OF MATER	AL .	1710	T
	_		_	+	1	-		COMPOSITION	CONSISTEN	CY MOISTUR	E COLOR	LE
-	-		-	+	+	1		6" TOPSOIL				+
	-		-	+	+	+						-
8	-		-	-	+	-	-	BLOCKY FLU - SILTS SAND				H
	-	X	B	12	1	0 6	11	GLASS AND ORGANICS	FIRM	Moist	BLACE	11
77	5-	IF.	-	-	+	+	+		The same	110037	FAN	11
II.	-	1	B	8	6	14	10	BLOCKY FILL - SANDS, SILTS,	Loose	MOIST	BLACK,	11
	-		-	-	$\vdash$	+	1	GLASS, EPICK		THE STATE OF THE S	BROWN	11
	-		C	1	-	+	+				SET I	
HICS	T	K	١	1	H	1	12	THE TOTAL	V. Laost	WET	BROWN	
WITH -	0-	2	D	3	2	2	1,,	( FIP . FINE SANDY SILT)	L-CT.			
		1	U	2	E	1	4	DREANICS	SOFT	B" WET B" MOIST		12-2
ME	NS.							·	The state of	7" wur	LT. GRAY	b
SAND LEMES			15	2	2	2	4				DARK	= 12
265	5-							SILTY VERY FINE SAND	Loose	IN 157	BROWN	5-2
D								***************************************				1
FINE	4	1						(1.5' HEAVE WITH HED FLUSH				ABA
	4	N-	1					4"-VERY FINE SAND				
SILTY	-11		E	3	4-	6	10	YIL SILTY PINE CAND	Loose		DARE	
100	7	-	+	-				10" - WERY FINE SAND	LOOSE	WET	BROWN	
78426	41	-	+	+	-							PIEZ
	-	-	+	+	+		-	WATER FLOUING OUT B-POD	)			TIP
	-X	1		1	-			10P OF SAMPLE FLOWED			77.23	
25	1	1	5	6	9	4	20	VERY FINE SAND	FIRM	WET	BROWN	
25	7	1	1	+	+	-		(TIP- EXTRUMINAT FING SANO)			,	
	71	-	-	+	+	+						
			1		1	+		(6" HEAVE - TOP OF SAMPLE)				
- 1	X	H	1/2	1 6	5 1	7	23	FLOWED			Ologie	-3.5
30-	15					1		FINE SAND	FIRM I	WIZT	BROWN	
100	11					1		2				

(CONTINUED)

INSPECTOR JON MARSH

## LOG OF TEST BORING

DATE 12-23-88

PROJECT SOUTH TRANSFER STATION - DETENTION STORAGE

HOLE NO TRO

GRO. ELEV. 12 -

LOCATION NORTH LOCATION - IN GRASS STRIP

SYRATA	DEPTH	SA	MPLE		BLOV	Y	STD.	DESCRIPTION	OF MATERIAL		W	
		T		_	COUN	, T	PEN.	COMPOSITION .	CONSISTENCY	-	COLOR	WATER LEYEL
FINE SAND		0						62 HEAVE WITH SPIN RECOVER	PURY)			
2011			I	9	10	11	21	FINE SAND	FIRM	WET	BROWN	
	35-											6 HUA
	-											IN AUG
	-						(	ABANDONIED 5/24/89	)			STEM
	-											
	-	1										
	-			-	- N				-			
-	-	-		1					12 -17			
	7	-	1	1	1	1			8			
		1	$\pm$	1		1						
	1	-	+	+	+			10.5	5			
	-	-	-			1						
	7			1	1							
	1		-	1	1	1		4				
	1	14		1		-	- 19 Y	4.				
		10	~	1	1		To 18	7-				

INSPECTOR JON M.

DATE 2-17-89

HOLE NO.\_ TB 1

PROJECT SOUTH TRANSFER STATION - INSIDE SCALES

LOCATION 35' 5/0 MAIN BLOG. & 35' N/O SOUTH BLOG. END (IN ASPHALT DRIVEWAY)

STRATA	DEPT	н	SAMI NO			BLOW		STD.	DESCRIPTION	OF MATE	RIAL			1
Asonpu	-	+	T	-				1	COMPOSITION	CONSIST		STURE	COLOR	W
	-	1	lt		1		-		12" ASPHALT PAVEMENT				COLOR	
-1	-		1	1	0	-			ID" - FINE SAND		1		1	11
FILL	5-	97		1	8	5	5	10	MANY VERY THIN GER	Los	E (HY	DRO	CARBON)	11
			7	3	4	2	2	4	ORGANIC SILT AND ORGANIC LUNSES	SOFT	we		BLACK	5-2
BAILCE			F			1					1	SEL	ENRBON)	5-5
ORB	10-		C	É	2	2	3	5	3"105" ALIGRNASING LENSE OF FINE SAND & FINE SANDY SILT	I Loose	WE	T	BUACK	2-21
OCCASIONAL ORGANICS	-	1 2 0	D	1 3	3	3	5	9	FINE SANDIWITH DA	Loose	-	-	BLACI	2-27
0000	- 000			L	1		1		3" SILT BLUCK				BLACT	
2	5-	1	E	4	1	11.	5	26	6" FINE SAND -	FIRM	WE:	7	BLACK	
LAYERS	-	2 K	E	6	13	114	ti	27	FINE SAND	EIRM	IN E7	+		PIE
	-							1					BLACK	T
5 5157	7_	ŀ	6	3	8	11	4	7	EINE SAND	FIRM	WET		LACK	
Spwar 20		-	-				1					-		
Bira								5	HEAVE W/H2O FLUSH					
25	- P	-	H	1	10	15	2	5/8	FINE SAMO	FIRM	WET	B	LACK	
	1.	-	1					+	704					
	_	7		5	8	13	2.1	4	SILT OF INTE SAND		WET	-	5	
1. 30.	$\prod_{i}$		7		-	12	GI	10	ORGANIC	FIRM	WET	BI	ACK	
	111	_		1				3	" YERY FINE SAND		MOLST	-	1	

(ABANDONED 5-24-89)

JOH M.

TOG OF TEST BORING

TB-07C

DATE 9-26-89

HOLE NO. TB 7

PROJECT SOUTH TRANSFER STATION GRD ELEV. 12+
LOCATION 280' NO & 20' NO NURTHWEST CORNER OF MAIN BUILDING (34' E/O FENCE)

ATA	DEPTH	5	AMPL NO.	E		WOW	STE		OF MATERIA		
		h	T	-	T	1	1	COMPOSITION	CONSISTENC	MOISTURE	COLOR
				1							
	-	1. 1.	6	1 2	1	5 3	3 4:	(6 INCH HENVE)			
	35-	T B			1	2 6.5	2 7.	(WEAK ORLHNIC SKENT)	DENSE	WET	BROWN
			-	+	+	+	+				
		1						(1 HEAVE - UNIABLE T	b Fl.us	(4)	
	-	1	NH.	+=	==	+	-	HEAVED FINE SAMO		WET	BROWN
1	10-							(WEAK ORGAINE SCENT)			
	-	M	-	-	-	-	-	(1-1			
			I	LE	31	33	64	(1.5" HEAVE) FINE SAND WITH 1.5"	VER'/	W/1=#	BEDWY
1	1.5-		-	-	+	+	-	\$11.7 1.1=115		PA ST	B.R.Du.y
								(WEAK ORGANIC SUENT)	/		
	+	0.00	1	8	12	20	40	FINE SAMO			
5	0	(3)			100	CO	70	GRADING TO WER' FING SAND W SOME SILT	DEMSE	WET	BROWN
	+				-	-					
	- 19	The same of						(8" HEAVE)			
6	5°-		K	15	16	26	42	VERY FINE SAND	DENSE.	WET	RROWN
3,											
	]										
_	-		L	3	10	23	3.3	VIERY FINE SAND	DENSE	WET	BROL/H
60	2-	1	-	-	-	-					

INSPECTOR JOH MA

MATERIALS LABORATORY

LOG OF TEST BORING

AKA

**TB-09B** 

DATE 12-27-88

HOLE NO. TB 3

PROJECT SOUTH TRANSFER STATION - DETENTION STORAGE

GRD. ELEV. 151

LOCATION MIDDLE LOCATION - NORTH PORTION OF PARKING LOT

STRATA	DEP	тн		MPLE NO.	1	BLO	W	STD.	DESCRIPTION C	F MATERIAL			
"Asena		1	_	T-	-	1	NI	PEN.	COMPOSITION	CONSISTENCY	MOISTURE	COLOR	WATER
· NERG		N'ENERGY I							NOTE - MOVED RELOCATED 2X  DESTRUCTIONS HIT WERE PIPE,  COMPRIE RUBBLE, 4 LASS  AND TRANSFORMERS.				
	5			A	2	2	4	6	BURNT PRODUCTS, SILT, SAMO	Loose	M0157	WHITE TAM BROWN	
トルト	9		X	В	2	2	2	4	BURNT PROPERTY	V. Laosi	MOIST		
		- X	- Current	c	2	8	23	31	FILL	(COMPACT)	MOIST	1	
LAYGRS	10				1				BOT 6" - FINE SAND		133,92	BLACK	
SILT LAY!									1 " - FINE SAND			BROWN BLACK	D 12-28
BURNT	15.		圏	D	1	1	2	3	(BURNT ORGANIC IN TIP)	SOFT	WET	BROWN	3 12-27
													5-24.
H	-		-	E	6	6	6	12	FINE SANO	FIRM	WET	O B RK B ROWN	
2	-0 <del>-</del>		-					Į.		•			PIEZO.
	4		-	1					(ABANDONIED 5-24-89)				
										-			
	1											8	
	-		-	+									

INSPECTOR JOH MARSH

DATE 12-27-88

AKA TB-10

PROJECT SOUTH TRANSFER STATION - DETENTION STORAGE

HOLE NO TB 4

LOCATION SOUTH LOCATION - 60' E/O BAS PUMP \$ 120' W/O & RELESS ROAD

STRATA	DEPTH		MPLE NO.		BLO		STD.		OF MATERIA	L .		
			T	+	1	1	PEN.	COMPOSITION	CONSISTENCY	-	COLOR	WATER
		ma	-	-	-			AUGUER SPORLS ARE WIRE.  METALS, BRICK, CONCRUTE!  VIERY ROUGH PRILLING  TO 7.5F7.				
•		X	A	В	8	11	19	BRICH, SILT AND SAND	(EIRM)	MOIST	BROWN	
	5-	X	В	42	26	11	37	(POSSIBLY CONTACT WITH OBJECT)	COMPACT	MOUST	WHITE, RED, TAM	
BRIS	-										8 ROWH	
OE	10-		C	11	28	31	59	WERY SILTY, ORBANIC,	(V. COMPORT	WET	BLACK	
FILL	-											
_		X	D	5	5	4	9	SAMPLE FLOWED	LPOSE			
SAND	15-							WIRE, SILT, DEBRIS IN FIR	19036	INIET	BROWN	= 12-2
FINIE S	-4	-			3			HYDRO CARBON SCIENT FROM				5-24
)H	20-		E	6	6	7	13	FINE SAND	FIRM	WET	DARIC 13ROWA	
	-	-										P1620,
1		-	1									
1		-	1			1		NORTH IS S. GLME				
	-	-	1					ST. RIGHT-OF-WAY				
	-	-	+			-		OVER ? DEPTH	4867			
	7		1	1		1		CONCRUIE BASE.				

(ABANDONED 5-24-89)

INSPECTOR JON MARSH

## LOG OF TEST BORING AKA TR-D TB-11

DATE 5-27-88		MAA I	
PROJECT S TRANSFIRE	Sta	i i	HOLE NO. TB 5
LOCATION 3' SW STA	15112 1-		GRO ELEV.

STRATA	DEPTH	SAMI			BLO	W HT	STD.	DESCRIPTIO	N OF MATER	IAL		
		П				I		COMPOSITION	CONSISTER	HCY MOISTURE	COLOR	VAT
	5-	1	4	Z	3	4	7	SILTY SAUD W/ grave bricks & msc.	el loose	damp	red- brown	
	10-	厦	3	2	1	1	2	brick, sand squarel	é lanse	damp	yellay/ rust	
7	15-			5 /	7	8	Ŋ	sand (fina)	Eicm	SAT	Wack	¥/3
2	0	D		1/3	*	1	1	Ayered SULTY fine SAN ROOK SULT UP decompose ROOTS	d v. 50ft	wet	gray	
2.3	1	E	2		, ,	1	2	sand	lasse	sat.	6/Ack	141
30							21	cilled to 27,5, 6 here we were	fort	6		

INSPECTOR S/2C

DATE 5-27-88

TB-12

PROJECT S Transfire Station

LOCATION Sta. 15+22, SOUTH 12'

TB 6 HOLE NO.

GRD. ELEY.

(State Stations SAMPLE NO. BLOW STRATA DESCRIPTION OF MATERIAL DEPTH COMPOSITION WATER CONSISTENCY MOISTURE COLOR bit resistance at 2.5" A 7 212144 13 3 5 brick, balts & dirt 10055 dano ensier drilling 010' 10-2/37 33 70 Sand faravel with comp garlage 3 2 Z 1005E wet sand, discomposed mots 20-PUSA 2 2 No RECOVERY 25-BOH Pulled everything

INSPECTOR SPC

DATE 9-26-89

TB 7 HOLE NO.

PROJECT SOUTH TRANSFER STATION

LOCATION 280' NO \$ 20' WO NORTHWEST CORNER OF MAIN BUILDING ( SH' 5/0)

STRATA	OE	PYH		MPIE		BL	WO	57		OF MATERIA	AL .		7-
	-	1	_	T	+		ואטני	PE	COMPOSITION	CONSISTENC		COLOR	WATER
SAND		-		-		+	+	-	4" ASPHALT				
G RAVELLY	5			A	9	9		1 20	(WEAK ORGANIC SCENT)  (LARGE GRAVEL IN TIP)	FIRM	SLIGHTLY HOLST	BROWA	
SAND	10			В	3	3	7	10	FINE WOOD FIBER WARRED SLIGHT SAMU AMO CRYSHED ROCK (WEAR ORGANIC SIGNT)	LOOSE	MOIST	BROWN	-
HILLE WITH	15-	X		C	12	10	7	17	(SAMPLE FLOWED)  WOOD AND SILT W/SOME  FINE SAND  (WEAK DREAMIC SCIENT)	FIRM	YY (67	BROWN	₹ 10-9-9 ₹ 9-28
ć	20-			D	у.	6	11	17	(SAMPLE FLOWED)  EXTREMELY FINE SAND  (WEAK ORGANIC SCENT)	FIRM	wet .	BROWN	
2 2	-		E	-	8	174	23	37	VERY FINE SAND (WEAK ORGANIC SCENT)	Dense	WET	Влоул	PIETO. 71P
3	- - 0-	STATE OF	E		27,	3	2.8	-	FINE SAND (WEBIC ORGANIC SCENT)	DEMSE	WET I	3 ROWAL	1

CONTINUED NEXT

INSPECTOR JOH M.

## LOG OF TEST BORING

DATE 9-26-89

TB 8

PROJECT SOUTH TRANSFER STATION GRO. ELEV. 121
LOCATION 280' % \$ 96' W/O NORTHWEST CORNER OF MAIN BUILDING (42' W/O FENCE)

Water			F MATERIA	DESCRIPTION O	310.		BLO	3	SAMPLE NO.	DEPTH	RATA
WAT LEV	COLOR	MOISTURE	CONSISTENCY	COMPOSITION	PEH.	NI			nu,		
T				2" ASPHALT		-		-	1	-	HALT
										-	(
	BLACK	WET	FIRM	SANDY SILT W/WOOD, GLASS,	17	7 10	7 -7	7	A	-	MATERIALS
	Tall 1	n n		(STRONG PETROLEUM SEMT)				1 1		-	7197
	DI OCK	WET	Loose	WORGANICS GRADINGTO		5	4	B 3	B		•
	BLACK	WIEI		(STRONG PETROLEUM SLENT)						10-	HAD FILL
10-9-										-	1, 1
- 9-2	BLACK	WET	o Firm	SILTY SAND W/FINE CRUSHE	-	1.5	4	7	C	5-	
	2			(STROME PETROLEUM SCENT)						=	
1				HI FINE CRUSHED ROCK	6	3	3	3	N D	-	-
-	BLACK	WET	LOOSE	14" VERY FINE SAND						0	10
PIEZ		590		(PETROLEUM SCENT)							
CONTINUALS	BROWN	YET	FIRM V	EINE SAMO	0	17	13	7	E		2 2
שיים לם				(PI=IRALEUM SCIENT)					H	7	
- REPERTED CONTINU								5-	F		
Note - RE	BROWN	YE7 -	IRM V	(PETROLEUM SCENT)	OF	14 2	6	5			1. 30

INSPECTOR JOH M.

### LOG OF TEST BORING

TB-15

DATE 9-27-89

: AKA TB-15.

TB 9 HOLE NO.

PROJECT SOUTH TRANSFER STATION

LOCATION 450' 1/0 \$ 89! W/O NORTH WEST CORNER OF MAIN BUILDING (35' W/O FEN! SAMPLE NO. DESCRIPTION OF MATERIAL SIRATA DEPTH BLOW COUNT WATER . COMPOSITION CONSISTENCY MOISTURE COLOR I' ASPHALT OVERLAY CONTRINED COBBLE & LARGE GRAVEL 17 VERY MATERIALS SANDY GRAVEL W/ CINDER SLIGHTLY GRAY DENSE & CRUSHED POCK (NO SCENT) WHEN AUGERING RESUMED STRONG PETROLEUM ELENT B VERY FINE CRUSHED ROCK & 5U647L7 MOIST BROWN AND FILL GRAVEL WY SAND 10-( DIESEL FUEL SCENT) 36 3" CRUCHED ROCK FSAIN 16 VERY FIRM WET BLACK 15" FINE SAND 15-MOIST BLACK DIESEL FUEL SCENT B.O. H. NO ABANDONED P1 = 30.

INSPECTOR JON M.

## LOG OF TEST BORING

DATE 9-27-89		ARARITHOMA	Piezo TP 40
PROJECT SOUTH TRANSFER	STATION		HOLE NO. TB 10
LOCATION 457' N/0 \$22' W/	O NORTHW	EST CARNER OF M	GRD, ELEV. 12±

STRATA	DEPTH		MPLE NO.	1 .	COL	W	STD.	DESCRIPTION	OF MATERIA	L		
-	-	T	Tome	+	T	_	1.2.1	COMPOSITION	CONSISTENCY	MOISTURE	COLOR	LEVE
57	-	17										Ξ.
MATERIALS	5 -	XX.	A	3	2	3	.5	GRAVEL, WOOP, ORGANICS  (PETROLEUM SCENT)	LOUSE	110157	BENWII BLACK 6 RUY	5m
LAND FILL	10-	華文	В	5	7	14	21	LENSES - SILT, FINE SAND &  EVITENELY FINE SAND &  GRAVELLY GAND  (DIESEL FUEL SLENT)	FIRIT	VERY	GRAY BROWNISH BLDGK	50
VI	5-		С	2	3	5	b	3" FIME S AND (FUEL SCENT)  15" SILT W/SLIGHT FIND SAND  ( LOW PLASTICITY  LOW TOUGHNESS)  FAIMS DIESEL FUEL SCENT)	ान(ह्यापम् इराहर	VERY MOIST MOIST	BROWN BLACK BROWN	10-9-81 V = 9-21
H. 2	20		D	4	4	4-	8	MANY THIN LAMINAGE OF VERY FING SAND FAINT DIESGL FUEL SCENT)	LUGSE	VERY MOIST	BROW/#	PIEZO
- 4												17
		-										

INSPECTOR JUN M.

DATE 5-24-89

ARA TB-17

PROJECT SOUTH TRANSFER STATION - DETENTION STORAGE

HOLE NO. TB 11 GRD ELEV. 12

LOCATION 163' N/O & 44' W/O NORTHWEST CORNER OF MAIN BULLDING

STRATA	DEPTH		MPLE NO.	1	BLO		STD.	DESCRIPTION O	F MATERIAL		400	
			1	1	-	ni.	PEN.	COMPOSITION	CONSISTENCY	MOISTURE	COLOR	WATER
TOPSDIL	1							10P501L - 10 2'				
FILL	5-	X	A	8	10	6	16	1	FIRM	5616H767	BEOUN BEOUN 1 DN	
HATERIALS								(NO SCIENT)				
1		X	В	2	5	3	В	3" - PLONCRETE - FILL		PRIST	RUD TAM DARICO	
	10-							3" - UNIFORN FINE SAND	Last	Moist	BROWN	
. \		a de la companya de l										
	15-		C	3	6	3	9	(1- POSSIBLE SCENT)	Loose	WET	13 ROW4/	
	-											\$ 6-15-
11		XX	D	2	3	4	7	2" - UNIFORM FINE SAND	Loose		BROWN GRAY	5-31-
1	20-							(P-1001BLE DENT)		7	GRAY	
CAND								NOTE - A-ROD WET 10 19.5"			•	
ענ	25-		E	Pu	S H	2	2	(?- POSSIBLE SCENT)	ERY LOOSE		BROWN	
			+									
V		X	= ,	2	4	5	9 1	(?- POSSIBLE SCENT)	-005(=	/		

JOH M. ( - SAMPLES FLOWED

## LOG OF TEST BORING

DATE 5-24-89

HOLE NO. TB 11

PROJECT SOUTH THRUSFIER STATION - DETENTION STORAGE

GRD ELEV. 12#

LOCATION 163' NO 4. 44' WO NORTHWISS CORNER OF MAIN BUILDING (10' \$0 PENCE

STRATA	DEPTH	SAMPLI NO.	1	BLOV	M.	STD.	DESCRIPTION C	F MATERIAL	, v	
		П	+	1	T-	ren.	COMPOSITION	CONSISTENCY	MOISTURE	COLOR
	-	11	+	+	+-	-			,	
	-		+	+-	-		(1' HEAVE W/ HO FLUSH)			
		1	12	4	5	9	UNIFORM FINE SAMO	Loose	WET	DARK
	35-	11	1.	+	-					
							8' HEAVE - UNABLE			
QH.	-	1	-	1			10 HO FLUSH AND			
	-	11	+-				GIET A-ROD TO			
	40-	11	-	-			PENETRATE.			
		1					- The party of the state of the			, F (+)
14	7		P				D.O.E. INSTALLED			
		-				-		1		
1										
									-	
	4									
	41		-	-	1					
	41	H	-	-		-			3	
	-			+	-	-				
	-11	1	+	-	+					
1	11	-	-	+	+	-				
1	7.		+	+	-					
1	11		+		+	-				
	11				-	-		-		
	11				1	+				

JOH M. INSPECTOR

LOG OF TEST BORING

16-73. AKA TB-18

TB-18

DATE 1-16-73.

HOLE NO. TB 12

PROJECT S. WEBSTER

Sand. Sewar

LOCATION Z NO LOE, S. E. S. ELMERDUE. SE. COPHIE

ATA	DEPTH		APLE O.		CON		PEN					
				-	T	Ť	-	COMPOSITION	CONSISTE	NCY MOISTUR	E COLOR	
						F		MIX, - ASH - GLASS		Hour	1312N	
		O. A.						SAND WIRE -				
	5-	1	*		3	14	7	MIX- ASH- GLASS	ححما	be of the	1202	
								(CARBAGE)		5		
	0		B	5	3	ı	4	HO RECOVERY	Lorse			1 1-1
	-	1	1									1-1
	-	1	1:	4				ram mare				3
1	5			3	14	9	23	MIX - SAND - WOOD (CARBAGE)	FIFT	30.7	BRIL	
			1	1				236				
		I		12	"	1	1	SILT Walocany				
			-		1			(PEAT)	C V. SER	1.1012.1	PIEM	
	100	F	F	1		1	-	HEADED 6"			, , , , , , , , , , , , , , , , , , ,	
25	C. C.	E	3	, :1	- (	à	10	SAMO FING-HED	لمحجري	TAZ	BLE	
25	]			-	1							
					1	+						
	1		1		+	-	+					

DATE 4-14-92

LOG OF TEST BORING

AKA

TB 13 HOLE NO.

TB-19

PROJECT S. Transfer Station - Retaining Wall

GRD. ELEV. 20.3 ±

LOCATION SE CORNER Transfer Sta. building 8'So. & 4'W.

ATA	DEPT	4 3	AMPLE NO.			w	STD.	DESCRIPTION C	OF MATERIA	AL.		
	-	+	NO.	4	T	UNT	PEN.	COMPOSITION	CONSISTENC	MOISTURE	COLOR	LEVEL
		+	-	+		+	+					
								SILTY SAND W/ FRACTURED		No.	100.00	+
	-		A	50	111			ROCK IN TIP		HOIST	DK BROWN	1
	5-	11	-	1	+		0	PUSHING ROCK PRISH 25-6"				-
1					İ					-	-	
	-		B	2	2	. 3	5					35 3
	10						-	SILTY SAND & GRAVEL	LOOSE	HOIST	BROWN -	7.100
	-		-	7	-				1 - 1		1	200
2		1000			-	+						-
NATIVE		8	c	1	1	3	4	SULHTLY SILTY FINE SAND	LOOSE	HOIST	UGHT BEDWIN	
	15-	1			-	+		W GRAVEL - WOOD NETE TIP			BEOON	30.
	Ī							THIN SILT LAYER @ TIP				5 40 3
			D	8	14	18	32	3" LAYER OF SILT,		MOIST	BROWN !	1
	+	-			-			RELATIVELY CLEAN MEDILAY TO				F.
2	20_			-				FINE STAID W OCCASINAL			/	2
							1 -	CRAVEL			- /	9.5 A
	-		_								/	10
	-		E	3	1	3	4	SILTY FINE SAND	LOOSE	WET	BROWN TO	7
K	5-							BOTTOM 6"- SILT W/		TO CATTURAT	PLACY GO	ть волго
3	-							ORLIANICS	)N()	, ,	/	3.2
			-	3	9						/	36
			F	2	3	3	6	CLEAN FINE SAND	LOOSE	SATURATED	BROWN TO	
3	7	11									GREY (TOP T	BOTTON

#### LOG OF TEST BORING

TB-19

DATE 4-14-92

1

HOLE NO TH

PROJECT S. TRANSFER STATION - RETAINING WALL

GRD. ELEV.

LOCATION \_ SE COENED

STRA	TA	DEPTH		NO.		BL	WO	*	STD.	DESCRIPTION C	F MATERIA	L		
40000	1		T	T	+	T	Ť	+	1000	COMPOSITION	CONSISTENCY	MOISTURE	COLOR	LEV
				1	+	+	+	$\dashv$	-					
9			100		Ī	$\dagger$	+	+	-				1	
	2	-		9	7	12	1 2	0	54	CLEAN FINE SAND ("DUWAHISII		1576775		
2000	7	35-	1	=	-	1	1			EIVER " SAND)		STULATO	BUKK	1
		+		-	-	+	+	+		DEILLER ADDING WOTER				
14.81					-	1	+	+		1 375'- HEND 1'				1
MEDIUM		No.	4	H	4	6	8	1.	4	FINE TO MEDIUM SAND	4		L.	
7 OT	40	0 -			12					("OWAMISH IZIVER") W/ SOME	1	SHTUZATED	BLACK	
		-	1		_	-	+	+	4	COMPSE SAND				
FINE		( <del>2</del> )				-	-	+	+	051				1.
				I	4	10	13	2		e 425' - HEAVED I'	- 1			
コンピ	45		-	-						WI SOME COMESE SHAD		अत्राधनास्त्र	BLACK	£4.
NATIVE		+	1	+		- 4	-	+	+	("OUWMHISH")				
		-	-			-		-	-					
				T	10	12	14	24	2 0	CLEAN FINE TO HEDILM SAND				· ·
H	50	+1	-	+	-					W/ SAME (ONESE SAM)	15	ATURATED	BUCK	がない。
		11	1	+	$\dashv$	-		-	1	("DUWMHISH")				
		11	1	+	$\forall$			-	+				4000	
4	3-	-	_	1	$\perp$			E		L C		= 1		
		$\ \cdot\ $	_	+	+	+							-	
	-	111	-	+	+	+	$\dashv$							
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6	<i>i</i> –					I				20.			- /	
1		111										- 30		

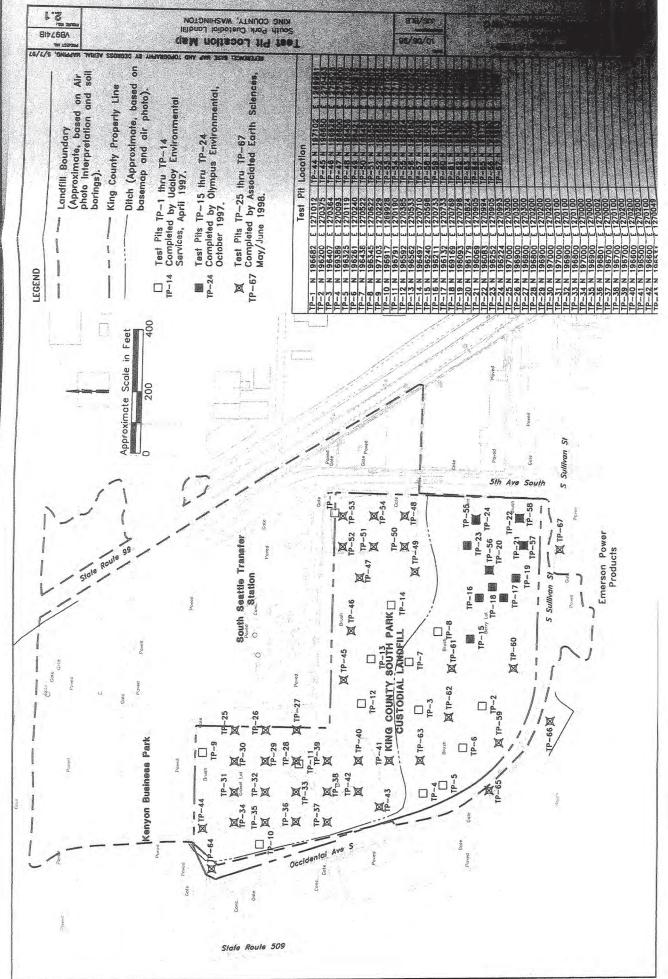
AKA RI South Piezo HOLE NO.

PROJECT S. TRANSFER STATION - RETAINING WAYL GRD. LOCATION EAST FALE, SOUTH END MAIN BLOG - 12' E/O & 16' 5/0 LIGHT

STRATA	DEPTH		MPLE			YNU	STO		F MATERIA	r.		
			T	+	1	70,	1	COMPOSITION	CONSISTENC	MOISTURE	COLOR	
	-		-	+	+	+	-	·				T
						+				-		
4	1		A	2	7	6	8	SANDY SILT W/ WOOD - TOP 6"		MOIST	Provide I	+
	5-			-	+	+	-	FINE TO MEDIUM SAND - SOTTUM 6		MOIST	BEOWN	#
					H	+	+					1
						+	-					1
		H	B	3	3	5	8	SILTY FINE SAND WY GRAVEL, TRICE 8	ex toan	SATURATO	Benula	+
1	10-	11			-	-	-	CLEMN FINE TO HEOLUM CAMP !!	1 3.34	SMULATED	1	15
	-	1			-	-		SOME COASSE SAND - BOTTOM 5"			Builde	1
.				11/								1
			C	2	3	11	14	TOP E"- CLEAN FINE TO MED. SAMD WI		C1	2000	1
1	5-	11					-	SOME COARSE SAND (DUWAMISH)	I T	SMURRATED	BLACK	Ta a
-	4	-						BOTTH 12"- SILT W/ DRIMES		WET	DIK BROWN	1
		- 	$\dashv$	-	-	-		(2" OF WOOD IN TIP)			HOTTLED W/ BLACK STATS	X
1			P	6	7	8	15	700 t" = 5-ta			ALIE.	dist.
2	0-							TOP 6" - FINE TO MED. CHUD WOOD PIECE IN BETWEEN UNVOL		SATURATED	BUCK	13 3
		-	+					BOTTOM 10 - CLEAN FINE SAND		SATURAZED	BINE V.	3
	-	-	+	-11				C 225'- HEAVED I'				A SERVICE
		1		5	6	8	14	DEILLER FLUSH W/ WATER				10.44
25	5-1						77	(DUWAMISH)		<b>अगण्यान्छ</b>	BUKK	100
	4.1	-	+	-								SHERE.
	4	-	+	+	-							10
	-	F	- 2	4	5	10	15	Contain	- 1			TO THE
30		Ľ	1					COUNTYISH)		SATURATED	BLACK	1
1								370 1-11 11514 ]				100

AL RICE JON SHIMAD,

#### **Historical Test Pits**



TP-1 + ruch Strage along 5th TP-01 WEATHER SUNDA HORIZONTAL DISTANCE IN FEET 1362-522 Jose A かけいるかいという TEST PIT LOG O wash was Barner. LOGGED BY By Carpen Je was the 1. P per colered PROJECT DATE 90 2 DEPTH PLIS 学っ TPL-14 WATER Q E Mast ash? layer, w/ greycul W folos fic, most, difficit to get part thereof with wask. At 10.5 more 15% thes, most, somet-uggar Garlouge - Wood, brich, Some odur. Dash calendar from 1961 Also noted lightly gray clayer house, Tire wixed in is/wing legs, oT authorization w/ Breing like substance, gypsom bound , Agrospect metal testim Dark Wale " burnel? refuse, paper, Himbus dated Jan. 1962 included the Brown 5:14, SAND fruis There largers to black, sendy Si whice there were unist, Organia clay, along w/ wask that SOIL DESCRIPTION & REMARKS Environmental Services TEST PIT TP-1 plastic, Coverable. 七三十 layer, thurbows ashes, bund-lesting oder, lots of appears lawre UES delais?

ו-ו ז'נוענו מפא'תועמים

Bucklevies, in edusin TP-2 **TP-02** HORIZONTAL DISTANCE IN FEET SUN BU LOCATION WEATHER TEST PIT LOG PROJECT 4 Ш 90 1334 HI430 WATER Alt SANGE 可有 with large rip rap rach 23% glass insulation on slet log wood weak SOIL DESCRIPTION & REMARKS more provided was the UES Environmental TEST PIT TRA Hire, merbal sake (Eta) וינ לעולה משליחלים מיני 1. B Sales.

UES Environmental					TEST PIT LOG
TEST PIT TP-3					PROJECT South Parly Landfill (19) 15 - Christof Mark Ruy lot, just 5. of drive Locopo Br 3. Carpenter Survey 508 Mark Ruy lot, just 5. of drive
SOIL DESCRIPTION & REMARKS	36	CROUND	STIGHTS	HF420 7334	HORIZONTAL DISTAL
Ly beneath the Speaks the Speaks	9 9		49		Refusion been monthless would to the
then overlying watered.  Have burned thinkers  and these at 11, Corstle	5		n. (4)	00	Borned Waske
される		4,41	Wahr	ق ت	
Mosto wi get	•		×		
-3					

00	197 LOCATION ENFRANCE (SE COMEN ANTHS BY CASE CAMEN ANTHS BY CASE CAMEN SECULTS.	6 HORIZONTAL DISTANCE IN FEET 16	4. SAND Water
TEST	PROJECT 4/7/97-	HE HE HE HE HE HE HE HE HE HE HE HE HE H	Howasers Play
		STIGHTYS	
		MYJEB CBOUND	
		雪鱼	
UES Environmental	TEST PIT TP-4	SOIL DESCRIPTION & REMARKS	Sil Care Derth Brown Sill SAND  Party Sim land Prosent Sill SAND  Party Sim land Party Sill SAND  Party Sill Shirls Sand  Partic lang o B' Also  Brown wash darlar ash  the matrix o B' Marth  o dare strong areasoft  timbers, o 10' Timby  Ty 10'  T

TP-5 TP-05 WEADIER SOUTH SOLL HORIZONTAL DISTANCE IN FEET PROJECT SOUTH PRINC Land TEST PIT LOG Winte W. Brown Son Task pit 15: 75: 5:0 54 hz Smir HPGO WATER The state of the s 2 uses be, Marchison Hum SOIL DESCRIPTION & REMARKS Det Sim Sith Start Land Hora hald work, Huber r, Dark Brown Sily, SAND 1/14 concede slee(2)
8 bys. Slav(2)
at least 3×6base of pit. Maringaners Udalay Environmental Services TEST PIT 19-5 them waster water w UES とていい Refuce

SATURE DISPARATE

TP-06

1 AL				5 6 of TP. Sy. of	Martida contine Cot
TEST PIT 11 - 19				H HOLDER WEATHER 20°F SULLING	weining promise
A & REMARKS	CGATA STOUND STOUND	STILITYS	HPG30 TEET	O 11 S HORIZONTAL DISTANCE IN FEET 16	
6-1 Med. Grown Skill W 91 LT 1/4	1	P.	2	SHITZAND, MICH BROWN	
Sole mate sile sole sole sole sole sole sole sole so	LA MAIN AND AND AND AND AND AND AND AND AND AN		2 00 4	Waste with brown 500 matrox  Maste with dave otour soil  Groy-blue suidy sill  waste, as above	
	÷				
		-			

UES Environmental	TEST PIT LOG / approx. topography.
TEST PIT _ 11P. 3	PROJECT SOLATIONAL AND ATIL SOCIETY SIGNATOR TO S. OF CHRINGE, AREA MACHINE, 1000 THE, 1000 THE, 1000 THE, 1000 BY
SOIL DESCRIPTION & REMARKS CAIL	BEELL Y Brown Sand. HOBIZ
2) 000	
L) an was and	
Total 12 bas at hish end of pit, 8 bas at low.	
	9
water Sample: pH = 6.33	

UES Environmental			TEST PIT LOG	P-08
TEST PIT 10-8			PROJECT SALTEPILIE - ( asselfil) DATE 1/3:193 - 1000   MAMERIA   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   1000000   10000000   10000000   10000000   100000000	N. of Failer lot, N of pea
SOIL DESCRIPTION & REMARKS (GAT) SOIL DESCRIPTION & REMARKS	SSTAMS	HITER TEET	cl 8 HORIZ	
NO NO NO NO NO NO NO NO NO NO NO NO NO N	-	No.	Silly setting Sand Brown Silly Wash with brown 57(h)	
hades, plushic toyet?  1. 7. 10-6.  Wade with	-	4	Waste in black dk brown	
Applais to be more construction of the property of the propert	75	00 '		
		2		
13.		2		

UES Environmental					TEST PIT LOG	-9
TEST PIT TP- 9					PROJECT JOBUTAGUE L'ALMANIII LOCATION NIN YOUR, FEBRE LINE LOGGED BY M. L'ALMEN WEATHER DO'C'E, OVERLOWE.	
SOIL DESCRIPTION & RELIABRS	200	GHUCS:	STUMS	HIEE TEET	UNE 8 HORIZONTAL DISTANCE IN FEET 16	
0-0.51: Brown of property Sand Soil.  0.5-25: Brown to property of soil.  (incl. effavil, alrendiant concepts, briefland Hinging, 15-20% growelly fruits.  Lessell Chungs, 1011chs (miss.	N.			<b>D</b>	Brawn of good (500) With 5111  Brawn of good sand wif fills  Shows  Strassa	********
5-3.5: Gray sandy elayed to with gravel - Cover Cand and with gravel - Cover Cayer Fan wint graves into much lying patris. Motor lying	S WW	TE.	10000000000000000000000000000000000000		Wigste is dk brown motrox, brinial hived toustreetion debriss.	
The same of the sa	N. S. S. S. S. S. S. S. S. S. S. S. S. S.		<u> </u>	20 1		
the function lastic bricks, they bears whe.  They wenter bears where  Wet Slight westernsterns, and in test oft.	NA NA			2		
D. 86						

UES Environmental			TEST PIT LOG
TEST PIT TP- 10			PROJECTY/Starta Canally 11 Jano 12. Fence line 100000 BY FIND Jano W. Fence line 100000 BY 11 COLDER WEATHER STEES DEAGLOST
SOIL DESCRIPTION & REMARKS CATE SEE	STILMYS	HITEGO TEET	д в нови
0-0.75' From 5114' SAND  115'-2.5'  Gray SAND WITH GENDE, Freed  fonce Courtes (v. 5mila to 17p. 9)  Gray SAND WITH GENDE, Freed  fonce Courtes (v. 5mila to 17p. 9)  Waste With, brown silth SAND  WIGHER WITH, brown silth SAND  WIGHER WITH, brown silth SAND  WIGHER WITH, brown silth SAND  WIGHER WITH, brown silth SAND  WIGHER WITH, brown silth SAND  Wight wastly machine parties new box.  E - 9'; abundant courter, re-  Box.  E - 9'; abundant courter, re-  Box.  E - 9'; abundant courter, re-  Silph waste color noted  Silph waste color noted  Silph waste of 2'; but hole;  Silph watu ponded to hale.  The 11.5'  Watu ponded to hale.	The state of the s	2 0 5	EKAN SKID W GRAVEL.  Silth saug morphis.  Silth saug morphis.

UES Environmental			TES PIT LOG	
TEST PIT TP-11 CGF/LD			PROJECT SOUTH PULL LANGHIII LOCATION CYPTIC OF TREES, LOCGED BY HICORD SOUTH WEATHER 50'S F. SUMME	trees, deuter sault of Nw yar
SOIL DESCRIPTION & RELARKS FO	WATER	STIGHTS	1333K	
Course, 3-5 to fine - in gravely hace his obstilled is field to be	3/3	in the second	Brush SAND (SP)	
rubble thunks (bricks?). More 4-5: More wuste than mutrix.	JUN DIN		Fibrain Si 11/ Sand ma	
Kroste wy red-brown filty; sand matrix, mixed construction and mix waste (less wood than in TP-10). Thes, plastic, pipes,			Binathix.	
pricks, wire, 1000 -561: fimbas + Jailage appear burned in, placed alk brown or				
Strain). Hight Weste octor octor 7: alumeant thinbers. All burned below 7: 69 Ot: Encounter Sarge Piece of Concrete. Move things NE. Encounter Dauge	under Par	- E	2 house	
TD= 14.51			2	
No groundwide encountered.		-	PM.	
Fill Sand was cleaned then in Previous TPs.				

photo of garbing + w TP wall.

TD 42	
16-14	

				Southpark landthill
TEST PIT 1/2-12				DATE 1814 T. LOCATION (274004) CLOCK S. of hourshy show, HON LOGGED BY 1. (21404) WEATHER 205.) SLAMING
SOIL DESCRIPTION & REMARKS (G)	KYLES	SSTAMS	HTT30	TH BINDSONIAL DISTANCE IN F
1 Send with opened 810 00 %		7P.12-	,	Brown gray soilty sough wy gravel
Uneven Contact by All below. 1.5 - 3: Grave Silly yand house from. 10-15% Anes, 528% pavel from.			7-	Whate with olk brown sitter
3- Wente with alk brown sith, NO			5	
Sand methin appears bruned / NO Shinila to TP-11 wests - abundant thinbers, Imme concept			· 0¢	
Morestof of waste mixed in plantic doll . Metal, three Moist. Stight waste NO			2	
order of rom of to 12.  © 14" Sucounteed rock(?) or concide?).			1	
TD = 14! No groundwetter encountries			2	
	*		4	
Earliest pit to did so far-stays oner well	24.100			

100	
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50	
·SI I	

LOCATION Earlest most 2 F 3 pils in yard 5 of they fee 00000 HORIZONTAL PISTANCE IN FEET Lay gravel and Waster w/ dk. brown. Compess · roods WEATH IER Brown Silh Same · Corns LOGGED BY previous, londrete churks H1430 1334 ( 5 0 20 SURPLE represent the stays open wells very supposed spice RESTAN 0-0.75; Brown silty saw! North bound will hoots - cover/said. 0.75 - 2.5: Brown 511th, Sand with Gravel (1711) with some misc. waste. matal. My Miss. My Misser with all brown 31/11 sand retain, appears Curred. Wre. 45: brick and Obbbles, longuete Clumus. Slight weste odon. Show some from pipe, menal strys, show sole. Fauer fimbers than in previa if ft, that we couldn't pustrate. hales - more totales, bricks, Entoundered Layer of bricks No open meder encounter Took least 2 pictures on voll SOIL DESCRIPTION & REMARKS UES Environmental 16-14 TEST PIT

# Appendix A Summary of Test Pits Completed in Parcel 1 South Park Custodial Landfill King County, Washington

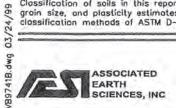
Revised Test Pit ID	OEI Test Pit ID	Depth (feet)	PID Reading (ppm)	Odors	Staining	Notes
TP-15	TP-1	1.8	0	None	None	
TP-16	TP-2	2.7	0	None	None	Landfill cap is 1-ft. thick on top of trash
TP-17	TP-3	3.6	0	None	None	
TP-18	TP-4	4	0	None	None	Area of test pit has concrete and asphalt blocks up to 1-ft, 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

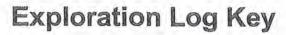
Notes:

- 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

60	(seu) ou c	0,0,0,0	GW	Well-graded gravel and gravel with sond, little to no fines	Terms Describing Relative Density and Consistency  Density SPT(2) blows per foot
cof coarse fraction	Gravels (Fills to		GP	Poorly—graded gravel and gravel with sand, little to no fines	Coarse— Very Loose 0 to 4 Loose 4 to 10 Grained Soils Medium Dense 10 to 30 Dense 30 to 50 Very Dense >50
fraction Gravels- More than 50% of coarse	Gravels with fines Gr		GM	Silty gravel and sity gravel with sand	Consistency         SPT <sup>(2)</sup> blows per foot           Very Soft         0 to 2           Soft         2 to 4           Grained Soils         Firm         4 to 8           Stiff         8 to 15
Gravels	Gravals wit		GC	Cloyey grovel and cloyey grovel with sand	Very Stiff 15 to 30 Hord >30
action	no fines)	4.4.4	sw	Well-graded sand and sand with gravel, little to no fines	Component Definitions  Descriptive Term Size Range and Sieve Number  Boulders Larger than 12"  Cobbles 3" to 12"  Component Definitions  G = Grain Size  M = Moisture Content  A = Atterberg Limits  C = Chemical
Sand- 50% or more of coarse fraction passes Number 4 sieve	Sands (Ittle to no fines)		SP	Poorly—graded sand and sand with gravel, little to no fines	Gravel 3" to No. 4 (4.75 mm)  Coarse Gravel 3" to 3/4"  Fine Gravel 3/4" to No. 4 (4.75 mm)  DD ≈ Dry Density  K = Permeability
Sand - 50% or mo	with fines		SM	Silty sand and silty sand with gravel	Sand Coarse Sand No. 4 (4.75 mm) to No. 200 (0.075 mm) No. 4 (4.75 mm) to No. 10 (2.00 mm) Medium Sand Fine Sand No. 10 (2.00 mm) to No. 40 (0.425 mm) No. 40 (0.425 mm) to No. 200 (0.075 mm)  Silt and Clay Smaller than No. 200 (0.075 mm)
S	Sands with		sc	Clayey sand and clayey sand with gravel	Estimated Percentage Moisture Content  Component Percentage by Weight Dry- Absence of moisture, dusty, dry to
5	20		ML	Silt, sondy silt, gravelly silt, silt with sand or gravel	Few 5 to 10 Slightly Moist- Preceptible moisture With ≥ 15 Little 15 to 25 Moist- Damp but no visible water Some 30 to 45 Westly 50 to 100 Very Moist- Water visible but not
Sills and Clays	less than		CL	Clay of low to medium plosticity, silty clay, sondy or gravelly clay, lean clay with sand or	free draining  Wet- Visible free water, usually from below water toble
Sills and Clays	Liquid Ilm		OL	gravel Organic clay or silt of low to medium plasticity	Symbols  Sampler or portion Sampler Type of 6"  Type of 6"  Cement Grout Surface Seal
90	more		мн	Elastic silt, clayey silt, silt with micaceous or diatomaceous fine sand or silt	3.0" OD Split Spoon Sampler (SPT)  30 3.0" OD Split Spoon Sampler  3.25" OD Split Spoon Ring Sampler  Bulk sample  (4)  Filter Pack with blank casing
Sills and Clays	id limil 50 or		СН	Clay of medium to high plasticity, sandy or gravelly clay, fat clay with sand or gravel	3.0" OD Thin Wall Tube Sampler (including Shelby tube)  Grab Sample  Portion not recovered  Screened Cash or Hydrotip with Filter Paci
	Liqu		ОН	Organic clay or silt of medium to high plasticity	(1) Percentage by Dry Weight (2) (SPT) Standard Penetration Test (ASTM D-1586)  (4) Depth of Groundwater  ATD = At time of drilling
Highly Organic Salls	Solis		PT	Peat, muck and other highly organic soils	(3) In General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)

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.





FIGURE

Location: Parcel 3, Northeast Pit

Northing: 197000 Easting: 1270300 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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
0.5				SILTY GRAVEL WITH SAND; brown; dense, slightly moist; clasts to 3"
0.5	S-1	0		SAND WITH GRAVEL; brownish-gray; dense, slightly moist
1.0	G-1			
-	S-2	0	W/S	REFUSE; black; dense; with wood, brick, glass, bark
1.5 -				Bottom of test pit at depth 1.25 feet Ground water not encountered
2.5				
3.0				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytic G-1; Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/26/98

Project No. BV97041

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/26/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: South of TP-25

Northing: 196900 Easting: 1270300 Datum: NAD83 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. Samples Graphic Symbol DESCRIPTION SILTY GRAVEL WITH SAND; brown, coarse; dense, slightly moist; clasts to 4", some rounded G-1 GRAVEL WITH SAND; light gray; dense, dry; clasts to 1" 0 0.5 S-1 REFUSE; gray, with sand; wood splinters 1.0 Bottom of test pit at depth 1.1 feet Ground water not encountered 1.5 2.0 2.5 3.0 3.5

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



4.0

Driller: Hokkaido Drilling & Developing Corp.

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: South of TP-26

Northing: 196800 Easting: 1270300 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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
0.5	S-1	0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	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
2.0				
2.5 -				
3.0				Bottom of test pit at depth 3 feet
4				Ground water not encountered
3.5 -				
-				
4.0 -				
-				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytica 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

Location: West of TP-27 Northing: 196800

Easting: 1270200

Datum: NAD83

Depth, R	Samples	(mdd)	Graphic Symbol	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 GRAVEL WITH SAND; brown; dense, slightly moist; clasts to 2"
0.5	S-1	0	00000	GRAVEL WITH SILT AND SAND; gray; dense, slightly moist; clasts typically 1
1.0	S-2	0		REFUSE; brown, with silty sand, some gravel; wood chips
1.5	0.2	U		
2.0			VIIIXI	Bottom of test pit at depth 1.75 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.

Backfill Date: 5/26/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/26/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: north of TP-28

Northing: 196900 Easting: 1270200 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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, coarse; dense, slightly moist; to 1"  GRAVEL WITH SAND; gray; very dense, dry; large concrete chunks to 8"
0.5	S-2 G-1	0		
1.0	G-1			
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.

gure No. A-5

Location: north of TP-29

Northing: 197000 Easting: 1270200 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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 simplication of actual conditions encountered.  DESCRIPTION
			000	GRAVEL WITH SILT AND SAND; light brown; dense, slightly moist; clasts to 4
0.5	S-1	0	0.00.00.00.	GRAVEL WITH SILT AND SAND; gray; dense, dry; burned horizon at upper and lower contact
1,0			8:8	
				REFUSE; black, with silty sand; burned, with wood, glass, metal, brick
2.1	Œ.			
1.5			2//200	Bottom of test pit at depth 1.5 feet
13	1			Ground water not encountered
2,0				
-,-				
2.5				
14				
3.0 -				
5.0				
1				
3.5		h I		
4.0				
1-				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/26/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/26/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: west of TP-30 Northing: 197000

Easting: 1270100

Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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			SAND WITH SILT AND GRAVEL; reddish-brown; medium dense, dry; clasts t 2.5"
0.5	S-1	0	9.0	GRAVEL WITH SAND; greenish-gray; concrete, clasts to .5"
1.0			0.0	
-			0.0	
1.5 -			0.0	
1			0.0	
2.0				REFUSE; dark brown; with concrete, wood, wire, glass
1				Bottom of test pit at depth 2.2 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.

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.

Easting: 1270100

Location: south of TP-32

Northing: 196900

Datum: NAD83 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. Samples 3 Graphic Symbol Depth, (ppm) DESCRIPTION . 1 . GRAVEL WITH SAND; medium brown; dense; clasts to 2" 0 6,6 GRAVEL WITH SAND; gray; dry; clasts to 2" S-1 0 6,6 0.5 1.0 REFUSE; dark brown, with gravelly sand, some silt; slightly moist; highly 1.5 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

Backfill Date: 5/26/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/26/98

Driller: Hokkaido Drilling & Developing Corp.

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No. A-8

Location: south of TP-32 Northing: 196800

Easting: 1270100

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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
0.5	S-1	0	9.00.00	SILTY GRAVEL WITH SAND; brown; dense, moist; clasts to 2", grass roots SILTY GRAVEL WITH SAND; gray; dense, dry; weathered yellow to 6"
1.0				REFUSE; dark brown, with sandy gravel, with silt; dense; burned wood, rubbe 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.

Backfill Date: 5/26/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/26/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: Parcel #3, NW test pit

Northing: 197000

Easting: 1270000 Datum: NAD83

Depth, ff	Samples	(mdd)	Graphic Symbol	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
0.5	S-1	0		SAND WITH SILT AND GRAVEL; brown; medium dense, moist; clasts to 1"
1.0				
1.5	S-2	0		
2.0				SILTY SAND; dark gray; moist; some subrounded gravel clasts, minor wood, plastic, cloth
2.5	S-3	41		
3.0				
3.5				
4.0				REFUSE; dark gray, with silty sand; with steel cuttings  Bottom of test pit at depth 4 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-10

Location: South from TP-34

Northing: 196900 Easting: 1270000 Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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			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				
	S-2	0	.1.	GRAVEL WITH SILT AND SAND; gray; dense, slightly moist; some clay
2.0				REFUSE; dark gray, with silty sand, medium; dense, moist; wood, brick, glas- copper
2.5		H		Bottom of test pit at depth 2.5 feet Ground water not encountered
3.0 -				
-				
3.5 -				
+				
4.0				
1				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytica 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.

Location: South of TP-35 Northing: 196800.5

Easting: 1270002

Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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
0.5 -	S-1	0		GRAVEL WITH SAND; light gray; very dense, dry; clasts to 3/2", concrete chunks to 8"
2.0		U		REFUSE; dark gray, with gravelly sand; with wood, wire, paper, glass, aluminum foil
2.5 -			(277)	Bottom of test pit at depth 2.3 feet Ground water not encountered
3.5 -				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/27/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/27/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Location: south of TP-36

Northing: 196700

Easting: 1270000

Datum: NAD83

Depth, ft	Samples	OVM (mdd)	Graphic Symbol	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
0.5				REFUSE; brown, with silty sand, medium, some gravel; moist; clasts to 2", rectangular blocks and mortar on surface, asphalt chucks 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	S-2 0			
4.5		0		
5.0				Bottom of test pit at depth 5 feet Ground water not encountered
5.5				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/27/98

Project No. BV97041

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/27/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: south from TP-33, east of TP-37

Northing: 196700 Easting: 1270100 Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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
	0.4			SILTY SAND WITH GRAVEL; brown; medium dense, slightly moist; abundant roots
0.5	S-1	0		SILTY SAND WITH GRAVEL; gray-brown; very dense; concrete chunks to 15' cemented with white precipitate, some wire and metal pipe
1.0 -	G-1			
1.5				
2.0 -	S-2	0		
-				
2.5 -				
7				
3.0				REFUSE; brown, with gravelly sand, with clay; with metal pipes, wood, asphal and metal sheets
3.5 -				Bottom of test pit at depth 3.25 feet Ground water not encountered
-				
4.0				
+		1		S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/27/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/27/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: east of TP-38, south of TP-28

Northing: 196700 Easting: 1270200 Datum: NAD83

1001611	mg. 190	.00		Lasting. 1270200 Batain. NADOS
Depth, ft	Samples	(mdd)	Graphic Symbol	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
			1337	SILTY SAND; brown; medium dense, moist; dry below 2", abundant roots
-	0.3		0,0	GRAVEL WITH SILT AND SAND; brown; dense, slightly moist; bricks
0.5	S-1	0	00000	GIAVEE WITH SIET AND SAND, BIOWI, delise, signly moist, blocks
1.0 -				GRAVEL WITH SILT AND SAND; gray, trace silt; dense, Dry; bricks, minor plastic
1.5	S-2	4.4	0.0	
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 Analyt 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.

Location: south of TP-39

Northing: 196600 Easting: 1270200 Datum: NAD83

Depth, ft	Samples	MVO (mqq)	Graphic Symbol	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			SILTY SAND WITH GRAVEL; brown; medium dense, moist
0.5	S-1	0		SILTY SAND; brown, medium; concrete chunks to 24" diameter, asphalt to 4" diameter
1.0 -				
1.5				
2.0				REFUSE; green, with pebbly sand, some silt; moist; bricks, shingles, metal,
2.5				pipe
2.5				Bottom of test pit at depth 2.5 feet Ground water not encountered
3.0 -				
3.5				
0.0				
4.0				
1-				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytica 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

Location: south of TP-40 (just north of burm)

Northing: 196500 Easting: 1270200 Datum: NAD83

This log is part of the report prepared by Associated Earth Sciences, Inc. (AESI) for the part project and should be read together with that report for complete interpretation. This

Depth, ft	Samples	(mdd)	Graphic Symbol	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
1.0	S-1	0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	GRAVEL WITH SILT AND SAND; brown; clasts to 2", abundant roots  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 -			rix(I)	Bottom of test pit at depth 3.3 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: 5/27/98

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

Location: parcel 3, southwest pit (south of TP-38)

Northing: 196600 Easting: 1270100 Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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
0.5	S-1	7.2	0.00.00.00.00.	GRAVEL WITH SILT AND SAND; dark brown; dense; clasts to 3", concrete/asphalt, brick
1.0			ο (ο (ο (ο (ο (ο (ο (ο (ο (ο (ο (ο (ο (ο	SILTY SAND; tan, medium, trace gravel; dense, moist
2.0				
2.5				REFUSE; dark brown, with sandy silt; dense, moist; glass, plastic bottles, brick
3.0	S-2	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.

Backfill Date: 5/28/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/28/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: southwest test pit (southwest from TP-42)

Northing: 196531.4 Easting: 1270049 Datum: NAD83

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

Depth, ft	Samples	(mdd)	Graphic Symbol	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
0.5	S-1	10.2		SILTY SAND; yellow, medium, some gravel; dense, moist; abundant roots, large concrete slabs some asphalt
1.0 -	*			
2.0 -				
2.5 -	S-2	11.9		
3.0 -	G-1			REFUSE; dark brown, with silty sand, medium; medium dense, moist; plastic pipe, wood debris  Bottom of test pit at depth 3.2 feet Ground water not encountered
3.5	1			
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.

Location: northwestern most pit in parcel #3

Northing: 197102.3 Easting: 1269981 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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 GRAVEL; brown; medium dense, moist; surface debris includes plastic bottles, wire, wood (tires and rims nearby)
0.5	S-1	12		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")
1.0			0.0	
1.5		7		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		4		
3.0	S-2	11.8		
3.5				
4.0				
4.5		1		
5.0				Bottom of test pit at depth 4.7 feet Ground water not encountered
Ī				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytics G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/28/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/28/98

Driller: Hokkaido Drilling & Developing Corp. Logged by: Robert S. Bogar

Approved by: JJS

Location: northeast of TP-12, south of fence line

Datum: NAD83 Northing: 196650.1 Easting: 1270463

Depth, ft	Samples	(mdd)	Graphic Symbol	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
0.5	S-1	17.8	000000	GRAVEL WITH SAND AND SILT; dark brown; medium dense, moist
+		,,,,,	00000	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				
2.0 '-				
2.5 -				SILTY SAND; brown, trace gravel; mottled gray and reddish brown
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.

Location: East of TP-45, south of fence

Northing: 196626.3 Easting: 1270626 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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 simplication of actual conditions encountered.  DESCRIPTION
0.5			9.00.000.	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
1.5				
2.0 -	S-1	0		
2.5				
3 7				
3.0				REFUSE; brown, with gravelly sand, with silt; with burnt wood, brick, concrete, misc. plastic, electrical box and insulators
3.5				
4.0 -				
4.5				
5.0 -				Bottom of test pit at depth 5 feet Ground water not encountered
5.5 -				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/28/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/28/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Datum: NAD83

Location: east of TP-46 (near northwest corner of P #1) Easting: 1270800 Northing: 196600

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

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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
0.5 -	S-1	11		SILT, GRADES TO SILTY SAND; gray, medium; dense, moist; abundant roots
2.0				GRAVEL WITH SILT AND SAND; brown; concrete chunks to 8", rebar, glass
2.5 -	S-2	39.5	00.00.00.00.	
3.5 -				REFUSE; dark brown, with sand; medium dense; metal, bricks, wood, glass, plastic
4.5 -				Bottom of test pit at depth 4.3 feet Ground water not encountered
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytica 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

Location: Parcel #2, southeast sample

Northing: 196455.9 Easting: 1271002 Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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
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 Analytica G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/28/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/28/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: Parcel 2, southeast test pit

Northing: 196421 Easting: 1270819 Datum: NAD83

Depth, ff	Samples	(mdd)	Graphic Symbol	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
0.5				REFUSE; dark brown, with sandy gravel; wood debris, rubber, plastic, wire, shingles
1.0 -				
1.5 -				
2.0 -				
2.5 -				
3.0 -			2277	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 Analytica G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/28/98

Project No. BV97041

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/28/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Location: Parcel 2, southwest corner

Northing: 196455.9 Easting: 1270902 Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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 simplication of actual conditions encountered.  DESCRIPTION
			.1.	GRAVEL WITH SAND; gray; medium dense, moist; clasts to 2", vesicular slag SILTY SAND WITH GRAVEL; dark gray; medium dense, moist; minor plastic
0.5	S-1	5,5		and wood
-	0-1	0.0		SILTY GRAVEL; red; clasts to 3", refuse: brick, plastic, wire, glass
1.0				
-			0.0	
1.5	S-2	12.2		
+			0.0	
2.0 -			0.0	
+			0.0	
2.5 -			0.0	
-				REFUSE; dark gray, with silty, sand; wood, metal
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 Analytica G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/29/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: north of TP-50, parcel #2

Northing: 196555.9 Easting: 1270902 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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
			019	GRAVEL WITH SILT AND SAND; brown; medium dense, moist; angular
0.5				vesicular slag clasts to 2.5"  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				
-				SILTY SAND; dark gray, some gravel; moist
3.0				Bottom of test pit at depth 3 feet Ground water not encountered
3.5				
V . 1				
4.0 -				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytica 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

Location: North of TP-51 - Parcel #2

Northing: 196655.9 Easting: 1270902 Datum: NAD83

Depth, ft	Samples	OVM (mqq)	Graphic Symbol	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
0.5				SILTY SAND WITH GRAVEL; brown; moist; some debris
1.0	S-1	37.6		REFUSE; dark gray, with silty sand with gravel; moist; plastic, wood, bricks,
2.0 -				Bottom of test pit at depth 2 feet Ground water not encountered
2.5 -				
3.5				
4.0				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytic G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/29/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/29/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert F. Cousins

Approved by: JJS

Figure No.

Location: South LF property

Northing: 196655.9 Easting: 1271002 Datum: NAD83

Depth, ft	Samples	MVO (mqq)	Graphic Symbol	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
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
2.0		¥-		
2.5 -				
3.0 -			S/AS	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 Analytics G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/29/98 Start 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.

Location: South Landfill Property

Northing: 196555.9 Easting: 1271002 Datum: NAD83

Depth, ft.	Samples	(mdd)	Graphic Symbol	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
0.5	S-1	10.1		SILTY SAND WITH GRAVEL; brown; dense, moist; fill parking area base coarse  REFUSE; dark gray, with silty sand, with gravel; abundant refuse: wood,
1.0				plastic, metal fragments, glass
1.5 -				
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 Analytica G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 5/29/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert F. Cousins

Approved by: JJS

Figure No.

Location: southeast landfill parking area

Datum: NAD83 Easting: 1270992 Northing: 196224 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. Samples Graphic Symbol (mdd) DESCRIPTION GRAVEL WITH SILT AND SAND; brown; dense, moist; with abundant 6" slag 1 G-1 0.5 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 S-2 4.1 2.0 2.5 3.0 REFUSE; dark brown; wood debris, scrap metal, slag 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 Bottom of test pit at depth 7.5 feet Ground water not encountered 8.0 8.5

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



9.0

9.5

Start Date: 5/29/98

Driller: Hokkaido Drilling & Developing Corp.

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

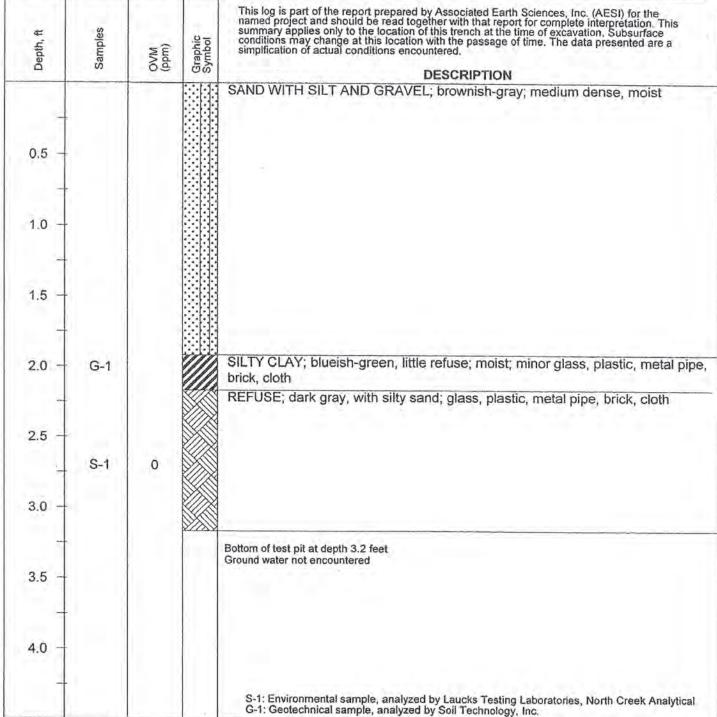
Logged by: Robert F. Cousins

Approved by: JJS

Location: western OES confirmation pit

Northing: 196180

Easting: 1270824 Datum: NAD83



Backfill Date: 6/1/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 6/1/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: former TP-7. 50 ft west pf TP-55

Easting: 1270905 Datum: NAD83 Northing: 196069.1 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. Samples Graphic Symbol Depth, (mdd) DESCRIPTION SILTY SAND WITH GRAVEL; brownish-gray; dense, moist; clasts to 3", minor wire, wood, asphalt, concrete 0.5 G-1 1.0 1.5 2.0 2.5 3.0 CLAYEY SILT; bluish-green, some gravel; dense, moist; friable, minor plastic at upper contact S-1 545 3.5 REFUSE; brown, some gravel; plastic, brick, wood, porcelin Bottom of test pit at depth 3.8 feet Ground water not encountered 4.0

Backfill Date: 6/1/98

G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Start Date: 6/1/98

Driller: Hokkaido Drilling & Developing Corp.

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical

Logged by: Robert S. Bogar

Approved by: JJS

Location: east of TP-57 (near former pit #8)

Northing: 196083 Easting: 1270993 Datum: NAD83

Depth, ft	Samples	MVO (mqq)	Graphic Symbol	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
0.5				SAND WITH SILT AND GRAVEL; brown; dense, moist; sand lenses 1" thick, minor glass, wire, brick, metal, plastic, abundant roots
1.0 -		120		CLAYEY GRAVEL; gray; some hydrocarbon odor
2.0	S-1	16		REFUSE; reddish-brown, some sand; dense, moist; refuse as described above
2.5				
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.

Backfill Date: 6/1/98

Project No. BV97041

Cover Soil Investigation
South Park Custodial Landfill
Seattle, Washington
King County Solid Waste Division



Start Date: 6/1/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location: southwest pit in non-leased area

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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
0.5 -	S-1	5.1	0.00.00.00.00.	SILTY GRAVEL; brown; medium dense, Dry; clasts to 2", abundant roots
1.5 -				
2.5 -	G-1 S-2	0		CLAYEY SILT; gray; dry; friable, minor plastic at upper contact
4.0				REFUSE; brown, with silty sand; metal, rubber, bottles, plastic, wood  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.

Backfill Date: 6/1/98

Project No. BV97041

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 6/1/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar'

Approved by: JJS

Figure No.

Location: southeast pit in southern non-leased area Northing: 196100 Easting: 1270500

Datum: NAD83

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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			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			9000	
2.0 -			0 00	
2.5				REFUSE; wood (blackened), rubber, plastic, wire
3.0				Bottom of test pit at depth 3 feet
3.5 -				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.

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division

Backfill Date: 6/1/98



Start Date: 6/1/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

Approved by: JJS

Figure No.

Location:

Northing: 196300 Easting: 1270500 Datum: NAD83

Depth, ft	Samples	MVO (ppm)	Graphic Symbol	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
0.5 -				SILTY SAND WITH GRAVEL; brown; medium dense, dry; minor plastic, metal
1.0 -	S-1	2.2		
1.5				REFUSE; brown, with silty sand with gravel; dry; with bricks, cloth, brittle tar, wire
2.0 -	S-2	3		SILT WITH GRAVEL; gray-green; dry; south wall only 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				
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytica 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.

Location: west of TP-61

Northing: 196308.9 Easting: 1270339 Datum: NAD83

Depth, ft Samples		(mdd)	Graphic Symbol	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 simplication of actual conditions encountered.  DESCRIPTION		
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						
2:0 -				REFUSE; wood, rubber, plastic, shingles		
2.5	S-2	0		CLAYEY SILT; gray; medium dense, slightly moist		
3.0				REFUSE; wood, plastic, tires, metal		
3.5						
4.0			X///X	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.		

Backfill Date: 6/1/98

Project No. BV97041



Start Date: 6/1/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert S. Bogar

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington

Approved by: JJS

Figure No.

Location: northwestern pit in southern non-leased area Northing: 196400 Easting: 1270200

Datum: NAD83 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. 世 Samples Graphic Symbol Depth, (mdd) DESCRIPTION SILTY SAND WITH GRAVEL; brown; medium dense, slightly moist; abundant 0.5 G-1 1.0 S-1 1.6 REFUSE; gray, with clayey silt; dry; jugs, tires, glass, plastic, wood, paper 1.5 2.0 S-2 6.4 2.5 REFUSE; black, with silty sand; moist; some brick, bottles 3.0 Bottom of test pit at depth 3.2 feet Ground water not encountered 3.5 4.0

Backfill Date: 6/1/98

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Start Date: 6/1/98

Driller: Hokkaido Drilling & Developing Corp.

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Logged by: Robert S. Bogar

Approved by: JJS

Location: Occidental @ across from icegate, 37' east of centerline

Northing: 197072 Easting: 1269850 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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; dark brown; organic rich topsoil			
0.5				SILTY SAND; tan, trace gravel; loose; with abundant bricks			
1.0	S-1	2.3					
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				Ground water not encountered			
6.0							
				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytica G-1: Geotechnical sample, analyzed by Soil Technology, Inc.			

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.

Location: curve @ Occidental/Sullivan connection

Datum: NAD83 Easting: 1270102 Northing: 196174.8

Depth, ft	Samples	OVM (ppm)	Graphic Symbol	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			
0.5				SILTY SAND WITH GRAVEL; brown; medium dense, moist; with bricks			
1.0	S-1	5.1		SAND; tan, fine; medium dense, moist			
1.5 -							
2.0				SILTY SAND; brown; medium dense, wet; with organics (old topsoil)			
2.5							
3.0							
3.5				SILT; tan, some sand; moist; native groundwater			
4.0				Bottom of test pit at depth 4 feet Ground water encountered			
4.5 -							
5.0 -	3						
-				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.			

Backfill Date: 5/29/98 Start 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.

Location: west of large warehouse

Northing: 195980.4 Easting: 1270324 Datum: NAD83 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. Samples # Graphic Symbol Depth, (mdd) DESCRIPTION GRAVEL WITH SILT AND SAND; brown; clasts to 2", concrete chunks to 15", occassional pockets at 6"-8", some wood debris, pieces of clay tile, brick 0.5 1.0 S-1 2.4 1.5 2.0 2.5 3.0 3:5 4.0 SAND WITH SILT; tan, fine; loose, moist 4.5 5.0 5.5 6.0 6.5 Bottom of test pit at depth 6.8 feet 7.0

Start Date: 5/29/98 Backfill Date: 5/29/98

Ground water not encountered

Project No. BV97041

Cover Soil Investigation South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



Driller: Hokkaido Drilling & Developing Corp.

S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytical G-1: Geotechnical sample, analyzed by Soil Technology, Inc.

Logged by: Robert S. Bogar

Approved by: JJS

Location: 24' south of centerline Sullivan

Northing: 195952.6 Easting: 1270891 Datum: NAD83

Depth, ft	Samples	(mdd)	Graphic Symbol	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		
0.5 - 1.0 - 1.5 -	S-1	3.2		SAND; tan, fine; loose, moist		
2.0				SILTY SAND; gray; loose, wet; organic rich		
2.5				SAND WITH SILT; gray, fine; loose; Duwamish sand (native)		
3,0 -						
4.0				-		
4.5						
5.0			2-40-1	Bottom of test pit at depth 5 feet Ground water not encountered		
5.5						
6.0						
6.5				S-1: Environmental sample, analyzed by Laucks Testing Laboratories, North Creek Analytica G-1: Geotechnical sample, analyzed by Soil Technology, Inc.		

Backfill Date: 5/29/98

Project No. BV97041

**Cover Soil Investigation** South Park Custodial Landfill Seattle, Washington King County Solid Waste Division



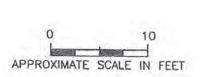
Start Date: 5/29/98

Driller: Hokkaido Drilling & Developing Corp.

Logged by: Robert F. Cousins

Approved by: JJS

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22	e <sup>21</sup>	20   	19	18





#### LEGEND

189 SOIL SAMPLING LOCATION TP-39 # TEST PIT (KING COUNTY 1998)

FARALLON SAMPLING GRID FOR POLYCHLORINATED BIPHENYLS



FARALLON CONSULTING 975 5th Avenue Northwest Issoquah, WA 98027

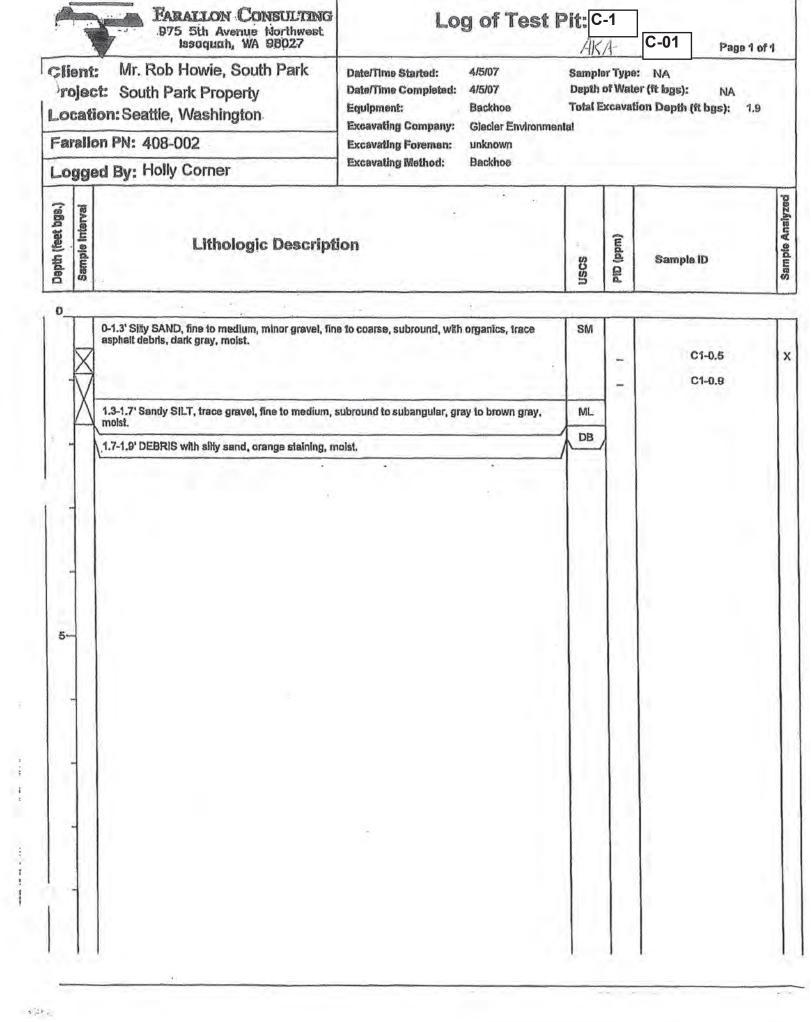
#### FIGURE 3

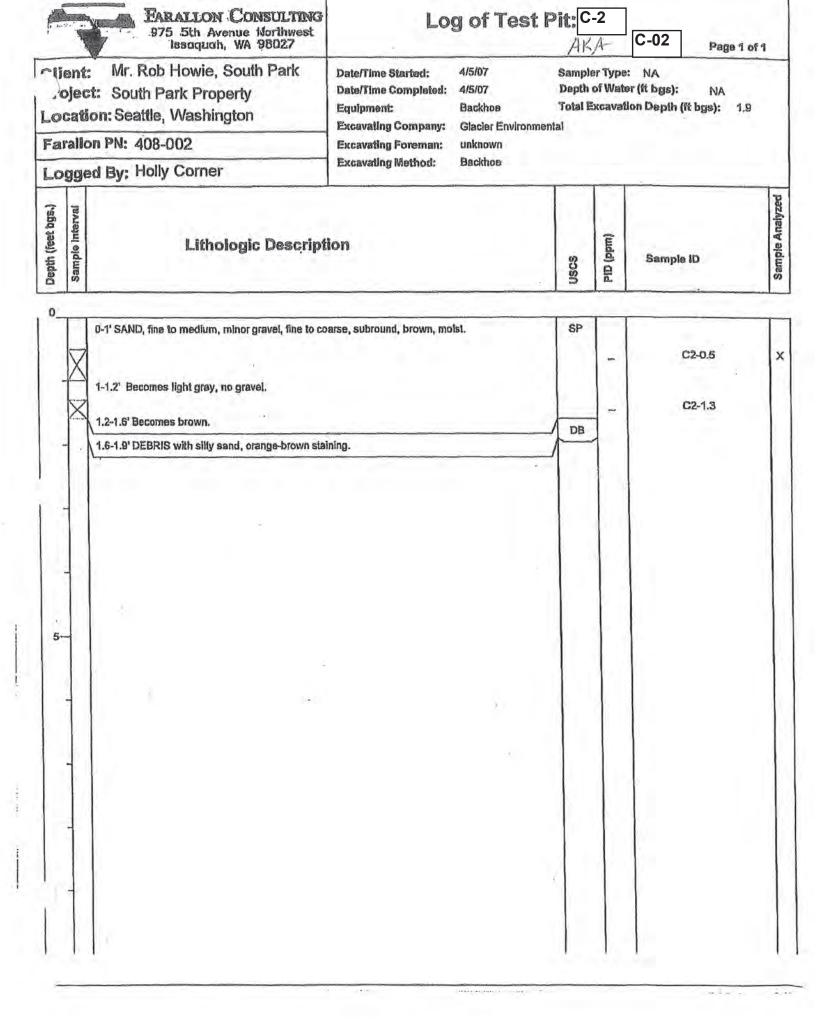
GRID CELLS WITH
SOIL SAMPLING LOCATIONS
SPPD PROPERTY SEATTLE, WASHINGTON

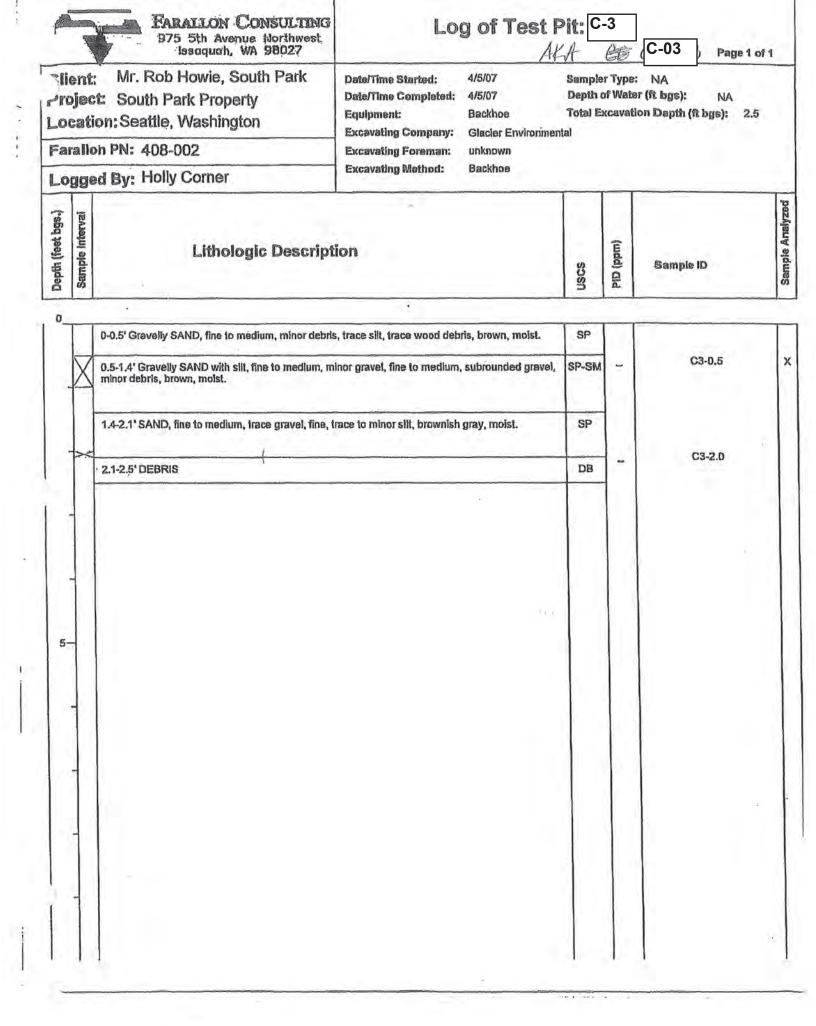
FARALLON PN: 408-002

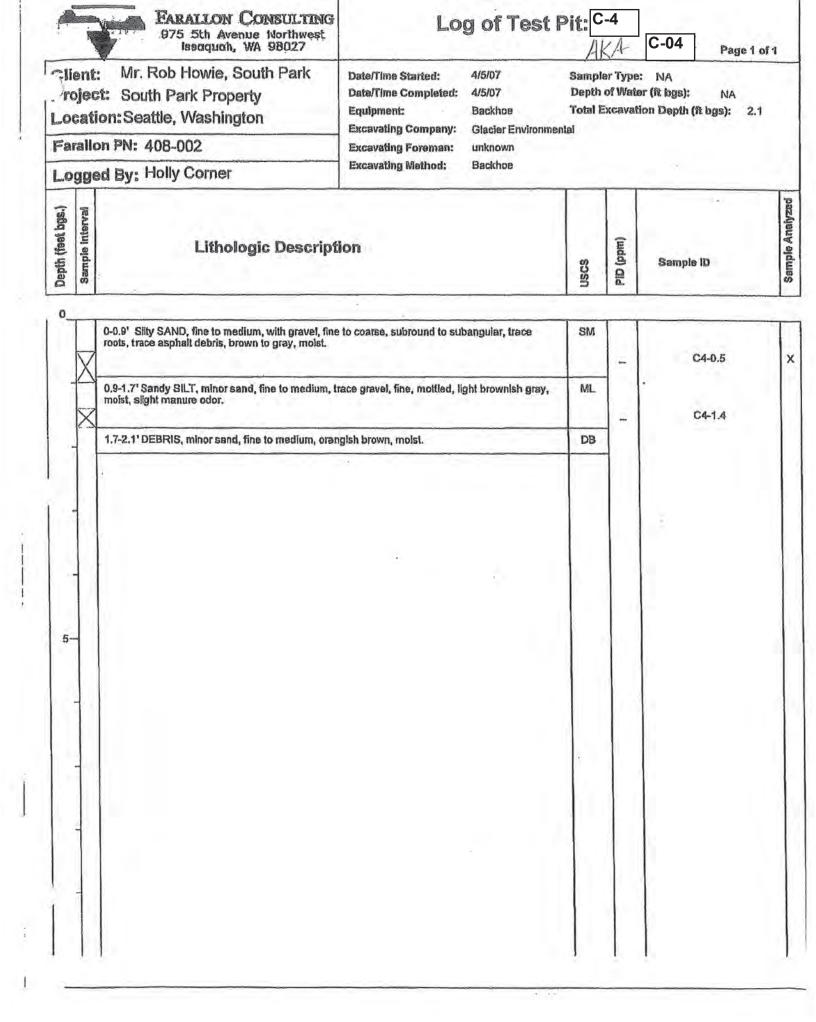
Drown By: DEW | Checked By: TC

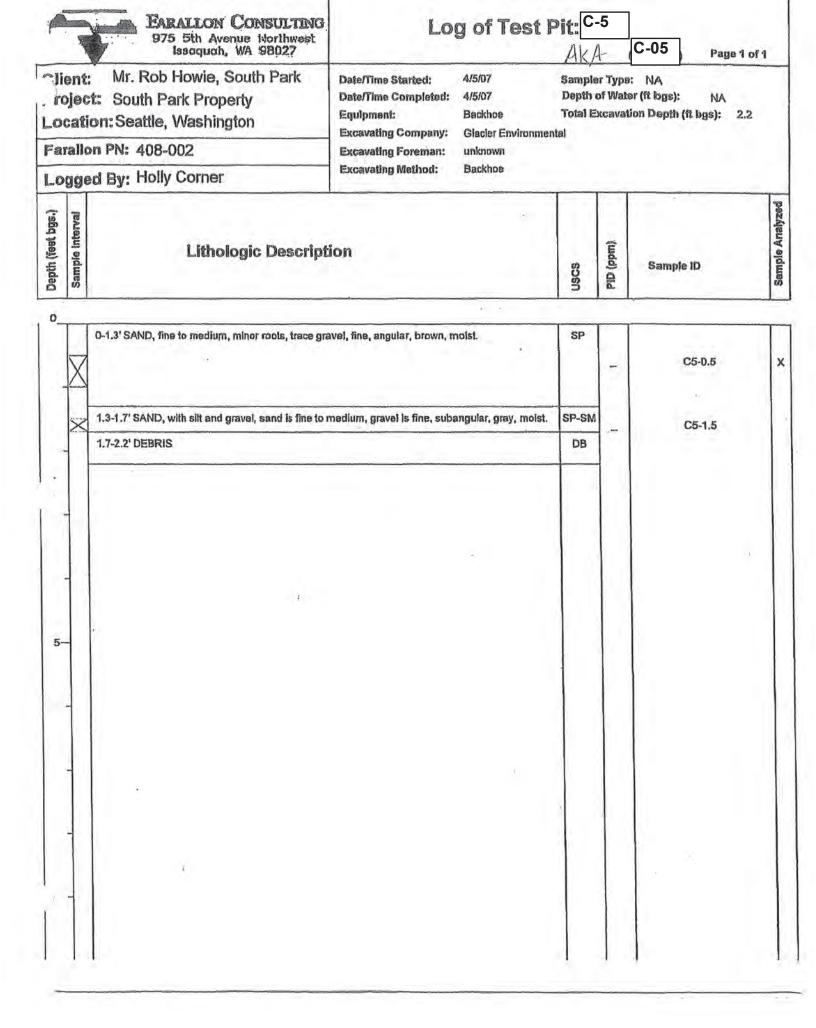
Date:6/06/07 | Disk Reference: 408002

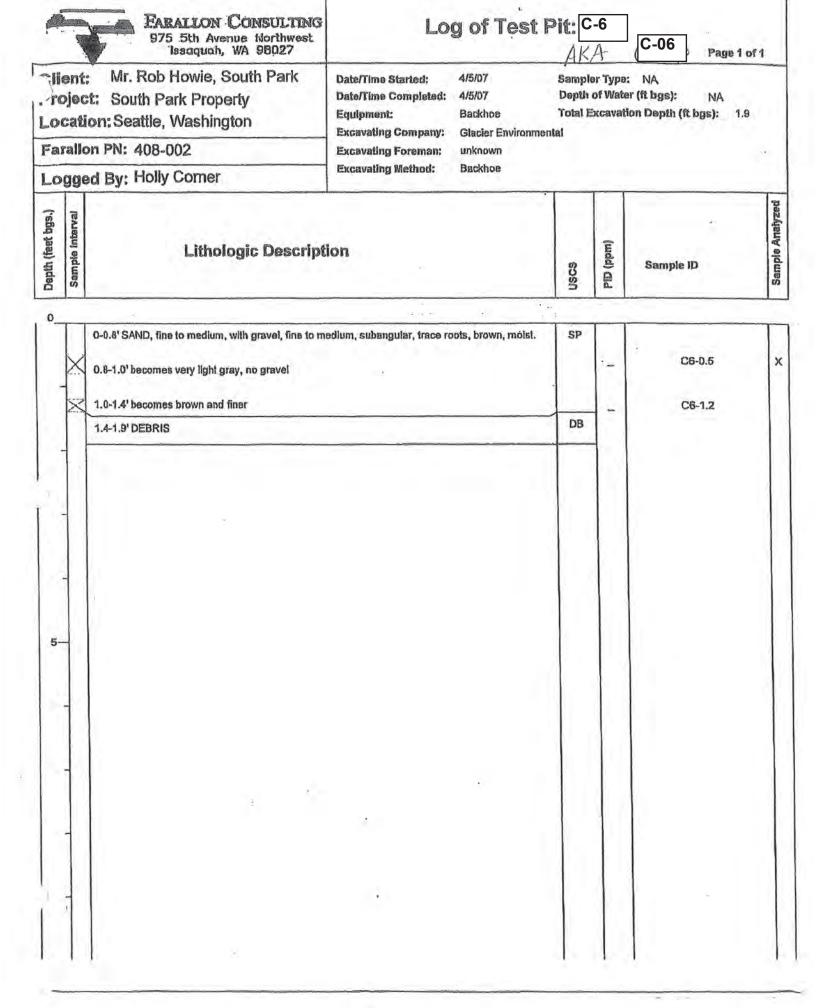


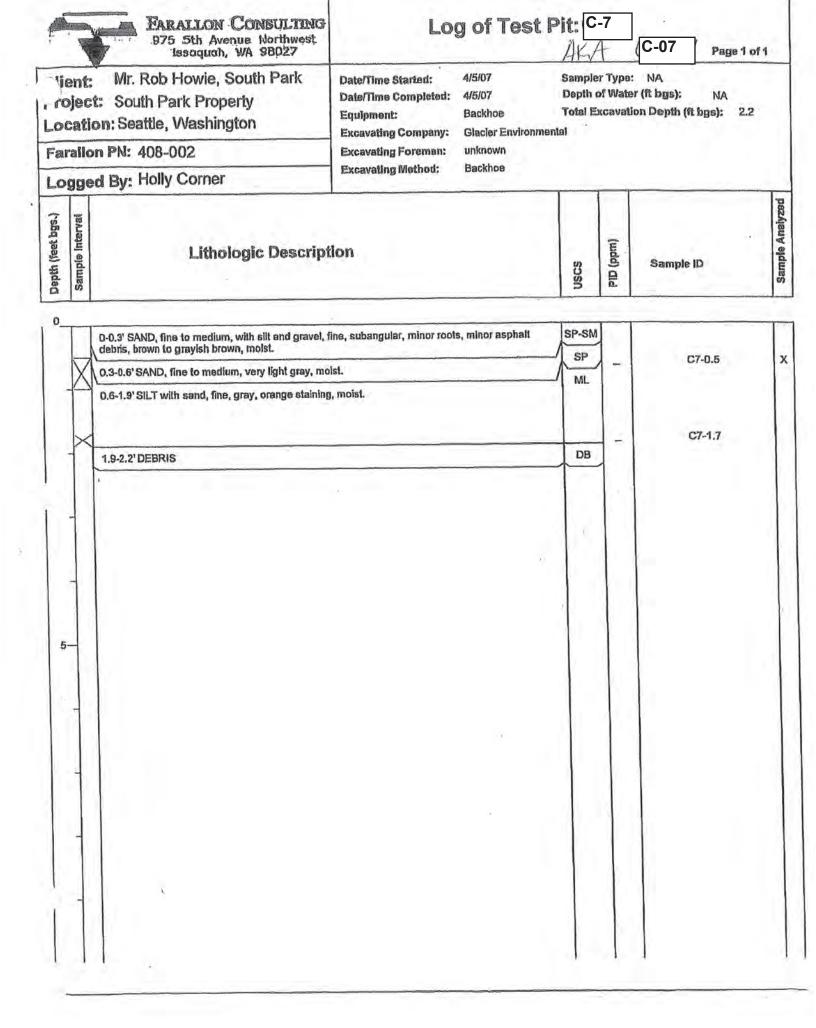


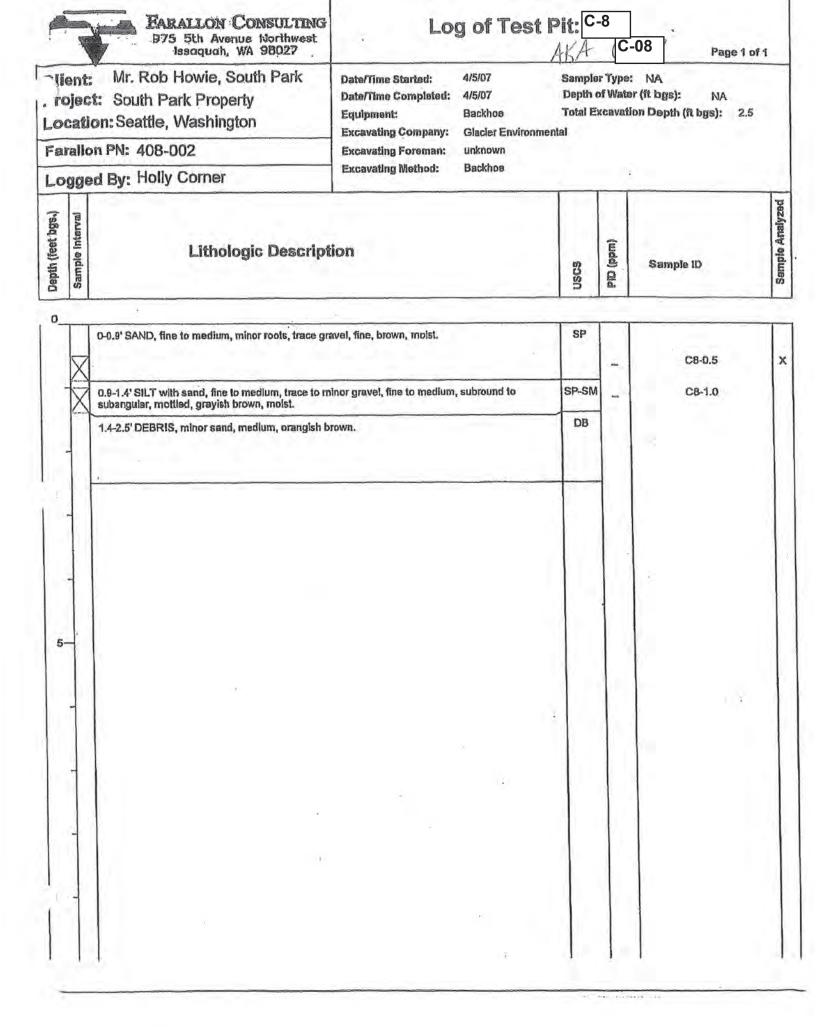


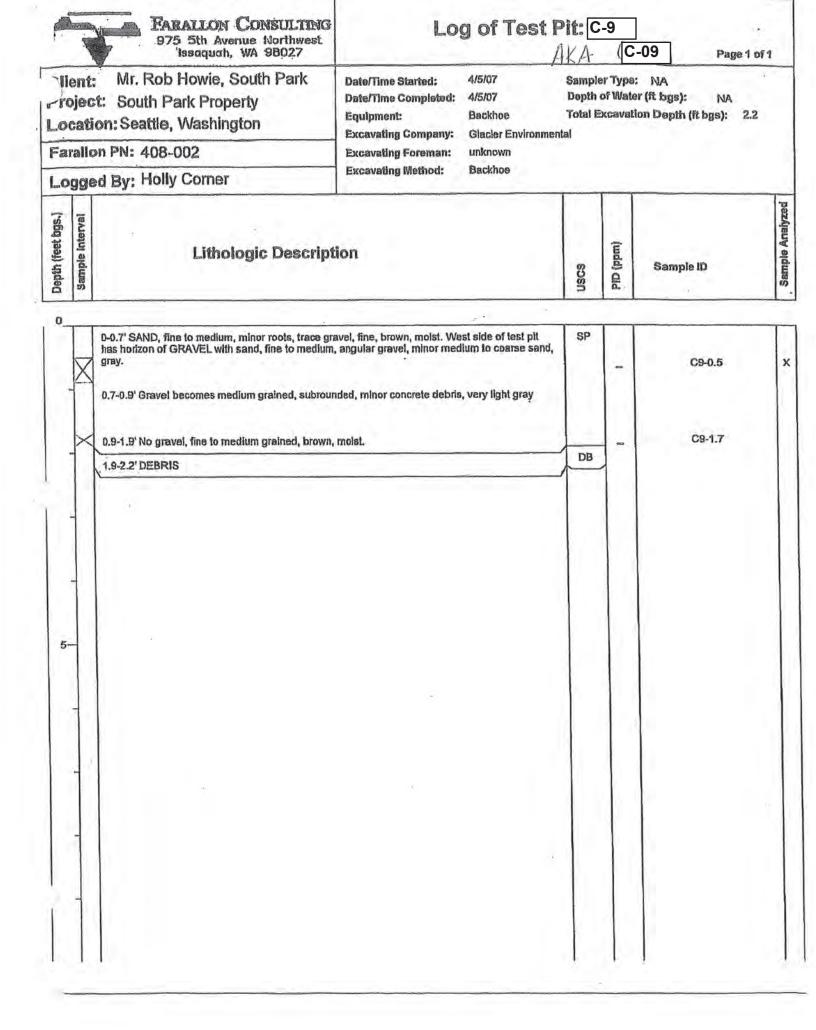


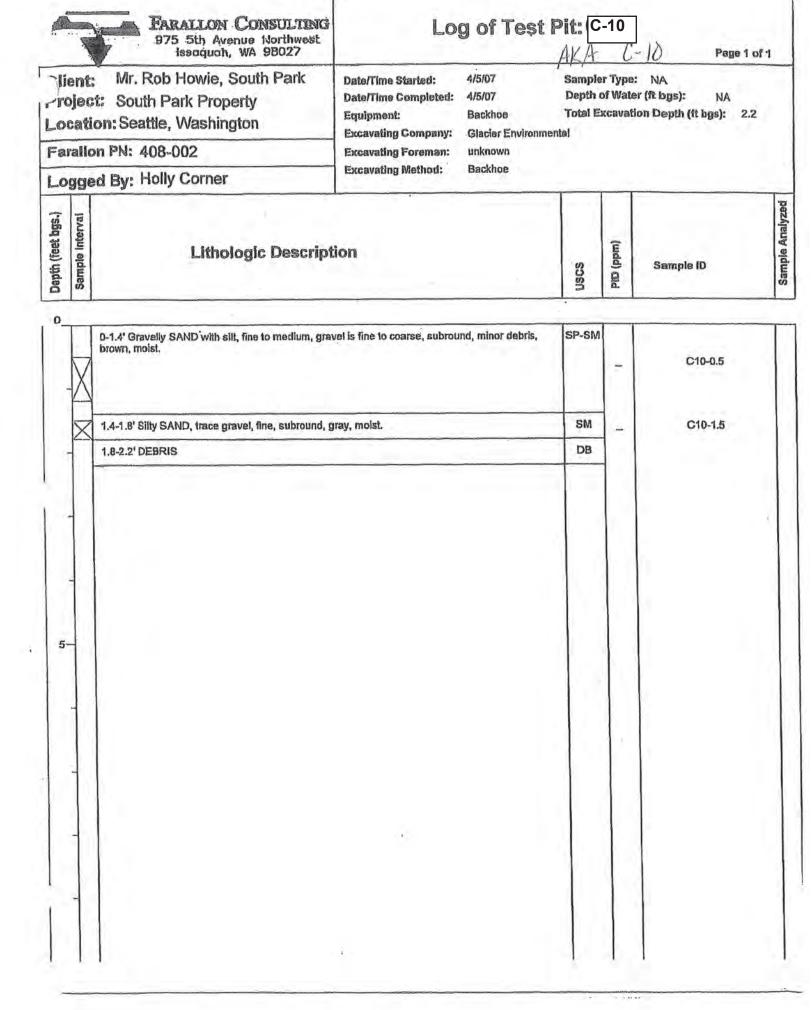


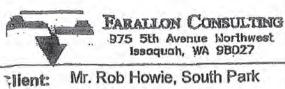










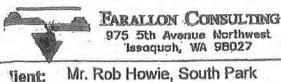


### Log of Test Pit: C-11

Page 1 of 1

Mr. Rob Howie, South Park 4/5/07 Sampler Type: NA Date/Time Started: Depth of Water (ft bgs): 4/5/07 Date/Time Completed: Project: South Park Property Total Excavation Depth (# bgs): Backhoe Equipment: Location: Seattle, Washington Glacier Environmental **Excavating Company:** Farallon PN: 408-002 unknown Excavating Foreman: Backhoe **Excavating Method:** Logged By: Holly Corner Sample Analyzed (mdd) ald Lithologic Description Sample ID

	Sample interval	Lithologic Description	uscs	(mdd) Old	Sample ID	Sample Analyze
		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	X	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			
j-						



-roject: South Park Property

Location: Seattle, Washington

Faralion PN: 408-002

epth (feet bgs.) ample Interval

Logged By: Holly Corner

## Log of Test Pit: C-12

Page 1 of 1

Sample ID

4/5/07 Sampler Type: NA Date/Time Started: 4/5/07 Dapth of Water (ft bgs): NA Date/Time Completed: Total Excavation Depth (ft bgs): Backhoe Equipment: Glacier Environmental **Excavating Company:** unknown **Excavating Foreman:** Excavating Method: Backhoe Sample Analyzed (mdd) Old Lithologic Description

on .		5	C.		1
1					
V 7	0-1.7' SAND with silt and grave!, fine to medium sand, fine to medium, subangular to angular grave!, brown, moist.	SP-SM	-	C12-0.5	
/ \l	Jppermost 3 inches contains 30 to 35% angular gravel.  Jppermost 12 inches minor brick debris.				- 1
		1, 2		C12-1.5	
	1.7-2.2' DEBRIS	DB			
1 1					
$\prod$					
11					
11					
11					
-		N.			
-	· · · · · · · · · · · · · · · · · · ·				
11					
		1			
11				1	
1			Y		
-			1		
		-1	1	1	



Depth (feet bgs.) Sample Interval

#### FARALION CONSULTING 975 5th Avenue Northwest Issaquah, WA 98027

#### Log of Test Pit: C-13

Page 1 of 1

jent: Mr. Rob Howie, South Park

Project: South Park Property Location: Seattle, Washington

Farallon PN: 408-002

Logged By: Holly Corner

Date/Time Started: Date/Time Completed:

4/5/07 4/5/07 Sampler Type: NA

Depth of Water (ft bgs):

NA

Equipment B

Backhoe

Total Excavation Depth (ft bgs):

Glacier Environmental

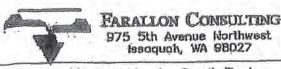
Excavating Company: Excavating Foreman:

unknown

Excavating Method: Backhoe

Lithologic Description	nscs	PID (ppm)	Sample ID	Sample Analy
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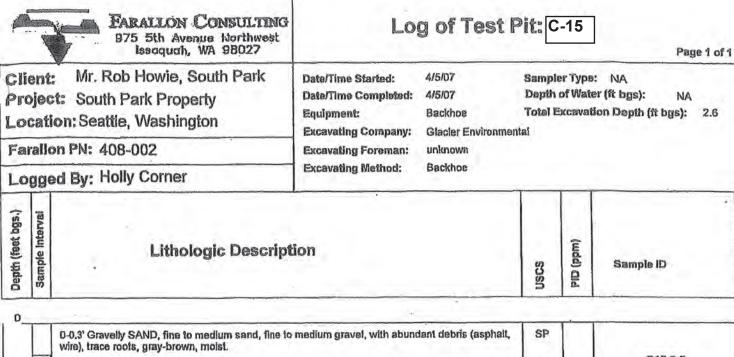
0-1 mol	.3' SAND with silt and gravel, fine to medium sand, fine to medium, subangular gravel, brown, ist. Abundant brick debris between 0-1.0'.	SP-SM	-	C13-0.5
1.3	-2.1' DEBRIS in orange-brown silty sand.	DB	- Server	C13-1.1
	-1K			
		1		



#### Log of Test Pit: C-14

Page 1 of 1

Mr. Rob Howie, South Park 4/5/07 Sampler Type: NA Date/Time Started: Depth of Water (ft bgs): NA 4/5/07 Date/Time Completed: Project: South Park Property Total Excavation Depth (ft bgs): Backhoe Equipment Location: Seattle, Washington Glacler Environmental **Excavating Company:** unknown Farallon PN: 408-002 **Excavating Foreman:** Excavating Method: Backhoe Logged By: Holly Comer Sample Analyzed Depth (feet bgs.) Sample Interval PID (ppm) Lithologic Description Sample ID 0-0.3' Gravelly SAND, fine to medium sand, fine to medium, subrounded gravel, with asphalt SP debris, trace roots, gray, moist, C14-0.5 0.3-1.9' With whole brick debris, becomes brown. C14-1.9 1.9-2.2' Becomes light gray. DB 2.2-2.8' DEBRIS 5-



Sample Analyzed

0-0 Wir	.3' Gravelly SAND, fine to medium sand, fine to medium gravel, with abundant debris (asphalt, e), trace roofs, gray-brown, moist.	SP	1	C15-0.5
Š	i-1.5' With whole brick debris.		-	C15-1,1
1	-1.5 With Whole prick deoris.	DB		
-			1	
				×
				1
		1		
		1		
		1		1



# FARALLON CONSULTING .975 5th Avenue Northwest Issaquah, WA 98027

#### Log of Test Pit; C-16

Glader Environmental

Page 1 of 1

Illent: Mr. Rob Howie, South Park Project: South Park Property

Location: Seattle, Washington

Farallon PN: 408-002

Logged By: Holly Corner

Date/Time Started:

Equipment:

4/5/07

Sampler Type: NA

Depth of Water (ft bgs):

NA

Total Excavation Depth (ft bgs):

Excavating Company: Excavating Foreman:

Date/Time Completed:

unknown

Backhoe

**Excavating Method:** 

Backhoo

Васклов

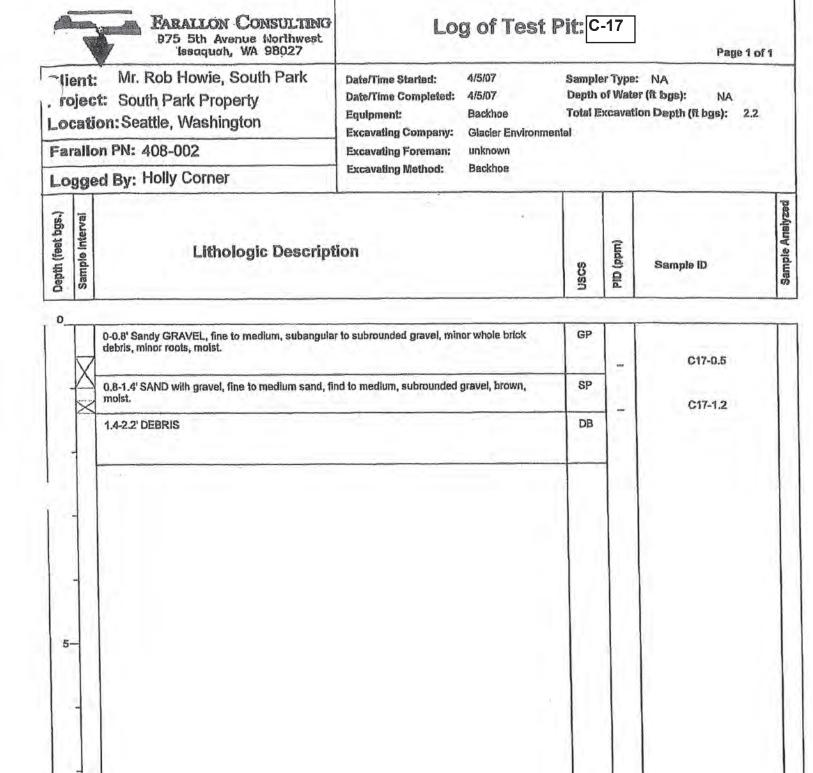
Dapth (feet bgs	Sample Interv	Lithologic Description	nscs	(mgq) Old	Sample ID	Sample Ana
D_		0-0.9' Sandy GRAVEL, fine to coarse (up to 8" cobbles), subangular to subrounded, minor sand, fine to medium, minor whole brick debris, trace to minor roots, moist.	GP	-	C16-0.5	
1		0.9-1.8' SAND with gravel, fine to medium sand, fine to medium gravel, brown, abundant roots at 1.6 to 1.8', moist.	SP			

1.8-2.1' DEBRIS with sand, fine to medium, orange-brown.

\_\_ C16-1.6

DB

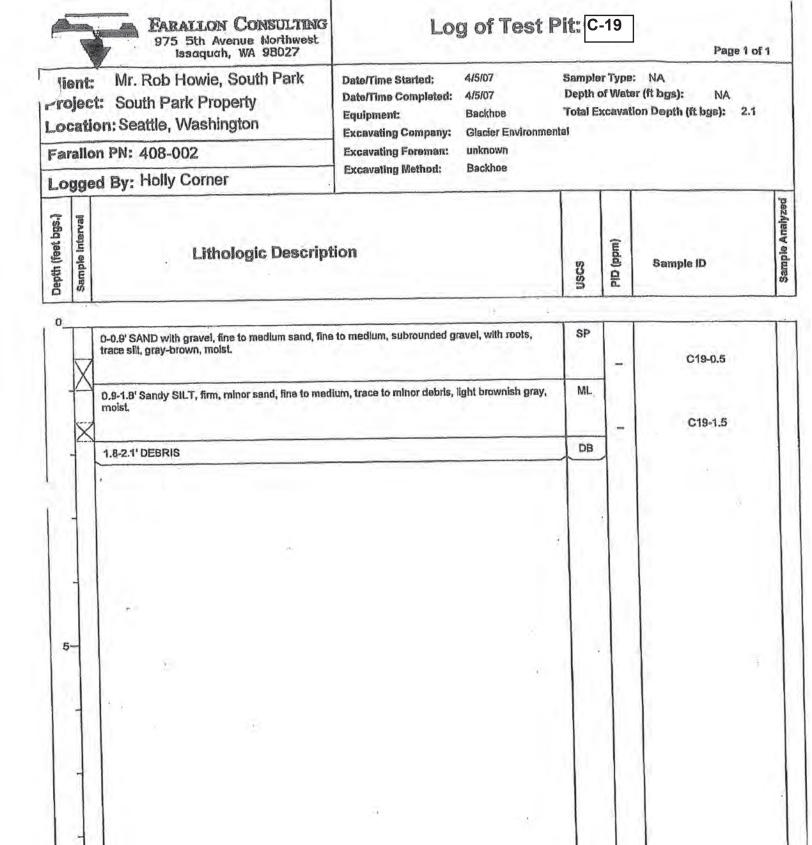
5—





Log of Test Pit: C-18 FARALLON CONSULTING 975 5th Avenue Northwest Issaquoh, WA 98027 Page 1 of 1 Mr. Rob Howie, South Park 4/5/07 Sampler Type: NA lient: Date/Time Started: 4/5/07 Depth of Water (ft bgs): Date/Time Completed: NA -roject: South Park Property Total Excavation Depth (fit bgs): Backhoe Equipment: Location: Seattle, Washington Glacier Environmental Excavating Company: Farallon PN: 408-002 unknown **Excavating Foreman:** Excavating Method: Backhoe Logged By: Holly Corner Sample Analyzed Depth (feet bgs.) Sample interval (mdd) Old Lithologic Description Sample 1D USCS

	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
><	2,2-3.1' DEBRIS	DB	-	C18-2.1
	x-			
-				
-				





Depth (feet bgs.) Sample Interval

#### FARALLON CONSULTING 975 5th Avenue Morthwest Issaquah, WA 98027

#### Log of Test Pit: C-20

Page 1 of 1

Mr. Rob Howie, South Park Plient: . roject: South Park Property

Location: Seattle, Washington

Farallon PN: 408-002

Logged By: Holly Comer

Date/Time Started: Date/Time Completed: 4/5/07 4/5/07 Sampler Type: NA

Depth of Water (fi bgs):

Backhoe Equipment:

**Excavating Company:** 

Total Excavation Depth (ft bgs):

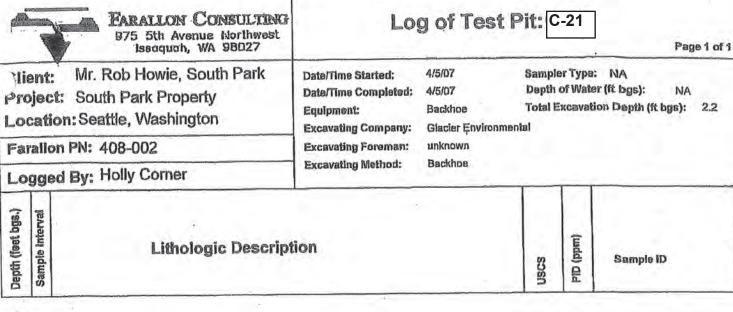
Glacier Environmental

Excavating Foreman: unknown **Excavating Wethod:** 

Backhoe

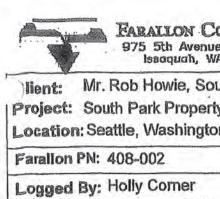
SS I de l	Lithologic Description	Social	(mdd) Ol	Sample ID	
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	D-1.0' Gravelly SAND, fine to medium sand, fine to medium, subround gravel, with cement and brick debris, trace slit, gray-brown, moist.	SP	-	C20-0.5
1	1.0-1.5' Sandy SILT, firm, fine to medium sand, trace debris, moist.	ML		C20-1.3
1	1.5-2.3' DEBRIS	DB		
		-		
		44		
		1		
1				



Sample Analyzed

	0-0.5' SAND with silt and gravel, fine sand, fine to medium gravel, brown, moist.	SP-SM		
$\approx$	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	1	
The state of the s				w
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	¥.			
-				



1.9-3.0' DEBRIS

Depth (feet bgs.) Sample interval

5

FARALION CONSULTING 975 5th Avenue Northwest lesequah, WA 98027	Lo	g of Test P	it: C-	22	Page 1 of	ī				
Mr. Rob Howie, South Park :: South Park Property on: Seattle, Washington	Date/Time Started: Date/Time Completed: Equipment: Excavating Company:	4/5/07 4/5/07 Backhoe Glacier Environmen	Total Ex	f Wate	NA r (ft bgs): NA on Depth (ft bgs); 3.0					
n PN: 408-002 Excavating Foreman: unknown										
d By: Holly Corner	Excavating Wethod:	Backhoe								
Lithologic Descript	nscs	PiD (ppm)	Sample ID	Sample Analyzed						
0-0.7' SAND with slit and gravel, fine sand, fine gravel, gray-brown, moist.					C22-0.5					
0.7-1.9' SAND with gravel, fine to medium sand, fine to medium, subrounded gravel, minor burned wood debris.				1	C22-0.7					
A A O AL DEPONIE										



#### FARALLON CONSULTING B75 5th Avenue Northwest Isaguah, WA 98027

## Log of Test Pit: C-23

Page 1 of 1

700

Mr. Rob Howie, South Park "ent:

Project: South Park Property Location: Seattle, Washington

Farallon PN: 408-002

Logged By: Holly Corner

Date/Time Started:

Equipment:

4/5/07 4/5/07 Sampler Type: NA

Depth of Water (ft bgs):

NA

Backhoe

Glader Environmental

Total Excavation Depth (ft bgs):

**Excavating Company:** Excavating Foreman:

Date/Time Completed:

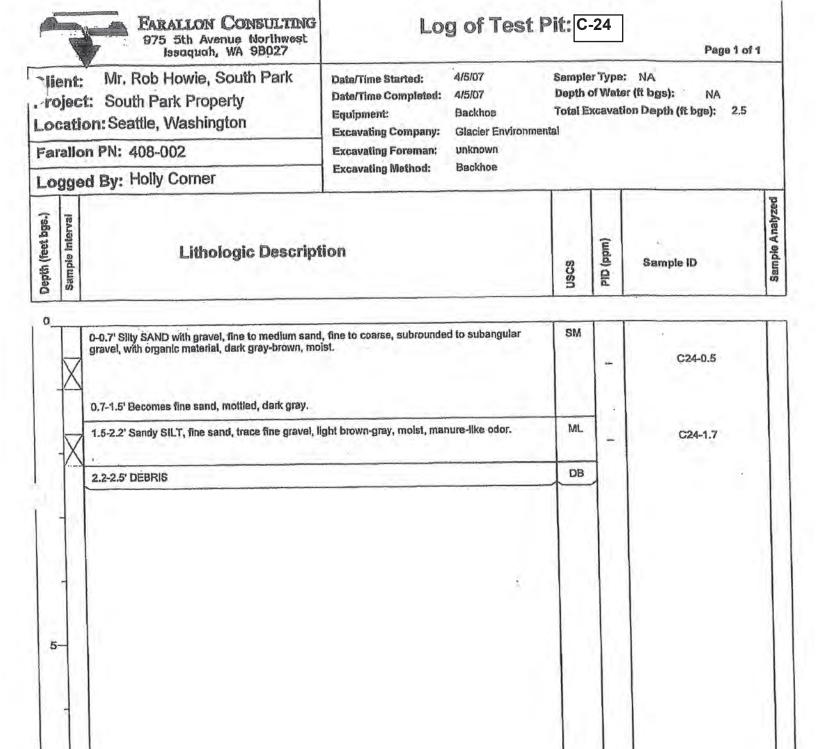
unknown

**Excavating Method:** 

Backhoe

Depth (feet bgs.)	Sample Interval	Lithologic Description	nscs	PID (ppm)	Sample ID	Sample Analyz
0_	1-1			1		

	0-0.6' SAND with silt and gravel, fine to medium sand, fine gravel, gray-brown, moist.	SP-SM		000.05
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.	→ Wir		53636
×:	1.6-2.1' DEBRIS.	DB		C23-1.5
-				
1				
		10		
		1		
-				
1				





#### Farallon Consulting 975 5th Avenue Northwest Issaquah, WA 98027

#### Log of Test Pit: C-25

Page 1 of 1

pez

Mr. Rob Howie, South Park :lient: Project: South Park Property Location: Seattle, Washington

Farallon PN: 408-002

Depth (feet bgs.) Sample Inferval

Logged By: Holly Corner

Date/Time Started: Date/Time Completed:

4/5/07 4/5/07 Sampler Type: NA

NA

Depth of Water (ft bgs): Total Excavation Depth (ft bgs):

Equipment Glacier Environmental **Excavating Company:** 

Excavating Foreman:

unknown

Backhoe

**Excavating Method:** 

Backhoe

Lithologic Description	SCS	PID (ppm)	Sample ID	Sample Analy	
		1			

0-1.2' Silty SAND with gravel, fine to medium sand, fine to coarse, subrounded gravel, trace to minor roots, minor debris (asphall, plastic bag), dark gray, moist.	SM	=	C25-0.5
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	-	0.27.1
	W		
		11	
	1		
	1		

**Historical Kenyon Industrial Park Borings/Wells** 

OCCIDENTAL AVENUE SOUTH

NORTHWEST GRATING SAMMS



#### FIGURE 3 - GROUNDWATER GRADIENT KENYON INDUSTRIAL PARK NOT TO SCALE

# 

= PROJECT AREA BOUNDARY

♦ MW -1 = GOLDER MONITORING WELLS

B-1 = DEI SOIL BORINGS

→ MW-4 \* DEI MONITORING WELLS (WITH GROUNDWATER 90.71 ELEVATION)

94.00 ----- = GROUNDWATER ELEVATION CONTOUR

SOUTH PARK TRANSFER STATION

WELL	SAMPLE NO.	BLOW	DEPTH (FT)	USCS SYM.	спн.	DESCRIPTION KB-01
型之音 CONORETE					7777	ASPHALT 4".
-BENTONITE	B-1-3	4-2-1		a.		CLAY, SILTY CLAY, PLASTIC, DAMP, BRICK & GRAVEL, SAND, REDDISH.
			- 5 -			BRION & GRAVEL, SAND, REDDISH.
BACKFILL - NO WELL	B-1-8	5-5-3		SW	<u> </u>	REDDISH SAND AND GRAVEL, SATURATED.
NOWELL						
	0.00		10 -			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		-	1		4
12,			- 15 -			
y	. )		-			
			- 20 -			
	-					
						9 9
						4
			- 25 -			
		-				

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 OF8.

04/14/92

WELL CONSTRUCTION	SAMPLE NO.	BLOW	DEPTH (FT)	USCS SYM.	LMH.	AKA KB-02 Z DESCRIPTION
- BENTONITE				SM		ASPHALT 4". SANDY SILTY CLAY, FILL, LOOSE.
	B-2-3.5	2-3-4		CL.		SILTY CLAY, GRAY, PLASTIC, DAMP.
	B-2-DRILL CUTTING SAMPLE 5' TO 8'	•	- 5 -			
	B-2-8.5	3-4-3			44	DARK, SILTY CLAY WITH DEBRIS, BRICK RUBBER, METAL.
BACKFILL - NO WELL	B-2-13.5	1-2-2	- 10 -	SW	Ā	DARK, GRAVEL, SANDY, LOOSE WITH DEBRIS, SATURATED.
7.			- 15 -			
Č.	(p.					
,	,		- 20 -			
					¥	
			25 -			00-
141			1			

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	DEPTH (FT)	USCS SYM.	LMH.	AKA - [KB-03]
BENTONITE	B-3-3	7-9-14		SW CL		ASPHALT 4".  SANDY, GRAVEL, LOOSE FILL.  GRAY SILTY CLAY, FIRM, PLASTIC, DAMP. HARD OBJECT AT 4'.
BACKFILL - NO WELL		<b>i</b> -	- 5 -	SW	0 6 0 6 0 0	SANDY, GRAVELLY DEBRIS, METAL, BRICK.  STOPPED AT 8' DUE TO OUTGASSING OF POTENTIALLY FLAMMABLE/ EXPLOSIVE LEVELS OF GAS.
			- 15 -			
	-		- 20 -			
			-			

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: Ø FEET

LIBERTY/SAMMIS - SEATTLE

PROJECT NAME: KENYON INDUSTRIAL PARK

PROJECT NO. 1A2996AA001

LOCATION: SOUTH PARK, SEATTLE, WA

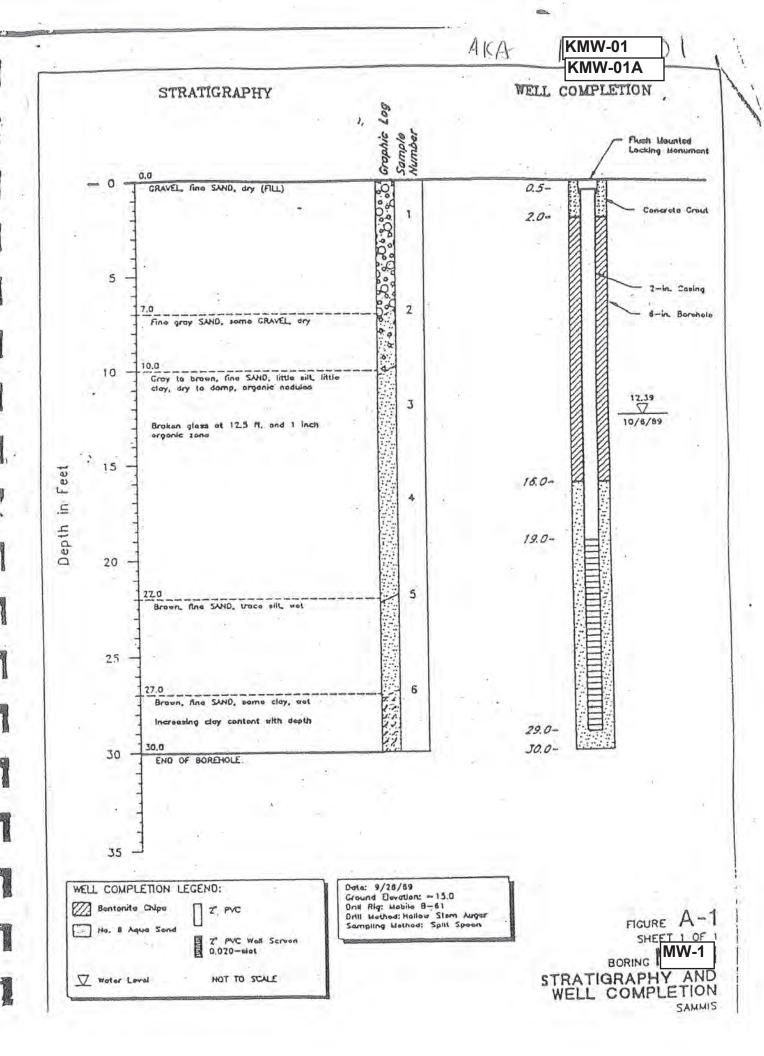


DIAGNOSTIC **ENGINEERING** ENGI

6347 SEAVIEW AVE NW, SEATTLE, WA

LOG 3 OF 8

04/14/92



Date Start/Finish: 10/16/95 / 10/16/95
Driffling Company: Tacoma Driffling Company
Driffler's Name: Butch Dietsche
Driffling Method: Hollow Stem Auger
Bit. Size: 8.25-in. Auger Size: 8.25-in.
Rig Type: Mobile B61
Speon Size: 2-in.

AKA - KM WOLA

Well Casing Elev.: 8.72 ft.

Borehole Depth: 215 ft. Ground Surface Elev.: 9.32 ft.

Geologist: David W. Lay

Hell No. MW-1A

Client: Nevander Asset Management, Inc.

Location: Seattle, Washington

OEPTH			Recovery (11.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description			C	Well onstructio	on.			
SS SEVATOR										GROUND SURFACE				Wei ca	D.
	-								,,,,	ASPHALT		-			
- 5	5	1		6 6 7	13	0.8	8 0.0		CLAY: Dark brown, some silt, soft, moist, no odor.  Grades with little fine sand.			Strategischer (strategischer) 	Flush mount protective casing.  Cement pad (2.0° bgs.  Bentonite ser (2.0° – 5.0° b  2-inch schedue-40 riser, (0.6° – bgs).  0.00° Stotted well screen, (-210° bgs).		
-10	-5 -	2		6 B 9	17 6	0.5	0.0			SILT: Black, stained, some fine to coarse sand, little clay, loose, wet, slight hydrocarbon odor,  SILT and SAND: Dark brown/black, fine, trace organics, glass, wood fragments, loose, wet (FILL).		â	A PROPERTY OF THE PROPERTY OF	Sand p 210'	ack, (5.0 bgs).
5		1-71				1	lames!	Yi.	<u> </u>		Cana	1		A	
	1	1/2	7			1	lemarks				Пэ			ted Zon	
		AND, BOUCK									10-2	0-95	/ 1030	-0.9	0.62
	1: 02380	EUD @ OCIT	Scrip Date:	9	TO LOCAL						-	3 4	100	A. S. S. S. C. S.	

Client

Seattle, Washington

Well No. MW-1A

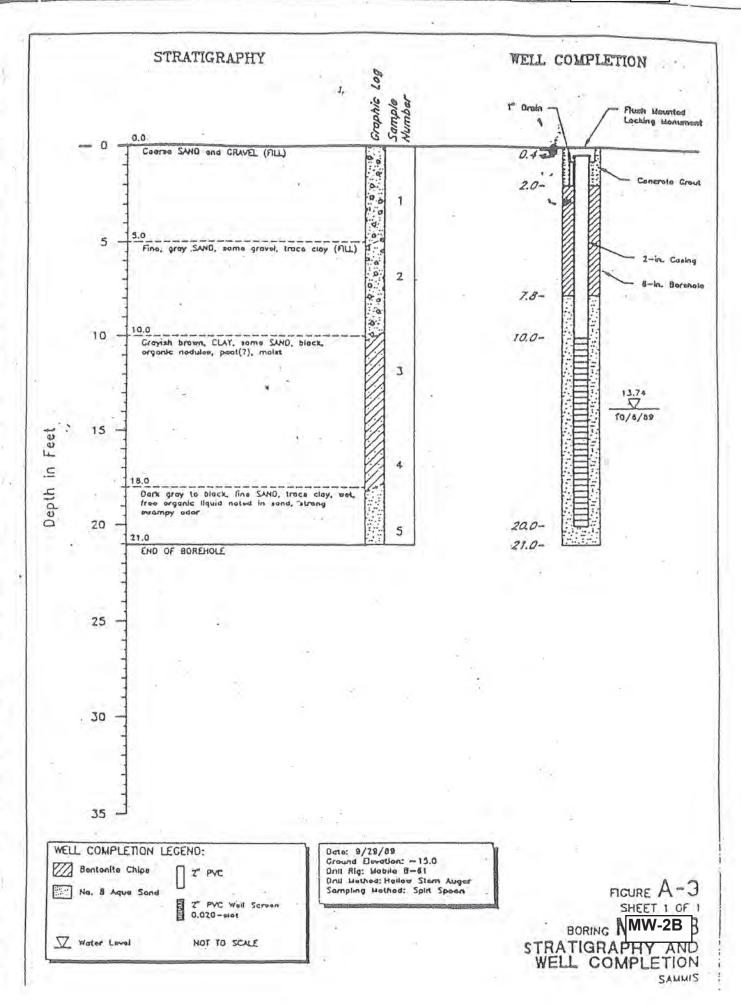
Total Depth = 21.5 ft.

Site:

Nevander Asset Management, Inc.

Sample/Int/Type Geotechnical T Sample Run Number Stratigraphic Well Recovery Blows/6 Description Construction 7 3 7 15 15 0.0 0.010" Slotted 8 Hell screen, (8.0" SILT and SAND: Dark - 210 bgsl. brown/black, fine, trace organics, glass, wood fragments, loose, wet (FILL). Sand pack, (5,0° = 210° bgs). Grades with slight sewage 7 odor. 4 10 23 1.5 0.0 13 Bottom of boring at 21.5' bgs. -25 Saturated Zones Remarks: Date / Time Elevation Depth 10-20-05/ 1030 -0.9 9.62 \$ BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS

**KMW-02** STRATIGRAPHY WELL COMPLETION Graphic Log Sample Number 0.0 Fine, brown, SAND and CRAVEL, (FILL), strong oder of decaying products Concrete Crout 1.0-6-In. Borohola 2 END OF BOREHOLE 5 6 WELL COMPLETION LEGEND: Date: 9/28/89
Cround Elevation: -15.0
Onli Rig: Mabile 8-81
Onli Method: Hollow Stem Auger
Sampling Method: Spit Spean Bentonite Chips I' PVC FIGURE A-2 Z PVC Well Screen . SHEET 1 OF 1 MW-2 BORING Y Woter Lovel NOT TO SCALE STRATIGRAPHY AND WELL COMPLETION SAMMIS OJECT NO 8831178 4-500 - 50 - 14-2 L



AKA

KMW-03A

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

Nevander Asset Management, Inc.

Location:

Seattle, Washington

ОЕРТН			Stratigraphic Description	Well Construction										
DOB A.										GROUND SURFACE			— Well cap.	
							2			ASPHALT	1	In	- First mour	nt
- - - 5 5		í		25 50	>50	0.2	0.0			SAND: Grey/green, fine to medium, some silt and gravel, trace cobbles, loose, moist.		0 (0 -	protective casing.  Cement pa 2.0° bgs.  Bentonite (2.0° - 7.5° 2-inch schedule-riser, (0.6° bgs.)	seal, 5' bgs).
-10 0		2	7	20 20 30 18 19	50	0.0	0.0			WOOD FRAGMENTS, Brown, loose, moist (FILL).			0.010" Six wei scret ~ 24.0" b	en, (0.0
		4	/	20 20 21 45	>50		0.0			Grades with sand, wet, creosote odor.			Sand pa	ek 175
55										SAND: Brown, fine, some silt, little medium to coarse sand, trace wood particles, loose, wet (FILL).			- 24.0° b	ogsl
В					)	Ratio de	Remar	le:			1 4	Satu	rated Zone	3
i ,	BLASLANI	), BOU	ICK 6	LEE		3	Remar	n5.			10-20-	/ Time -95/ 103	0 -1.99	Dept 11.32

Project: 02380

Script: nbblwell Date: II/15/95

Page: 1 of 2

Client:

Seattle, Washington

Well No. MW-3A

Total Depth = 24 ft.

Site:

Nevander Asset Management, Inc.

Sample/Int/Type Geotechnical PID (ppm) Headspace Sample Run Number Stratigraphic Well Recovery Geologic ( Blows/8 Description Construction 9 12 30 1.0 0.0 SAND: Brown, fine, some silt, little medium to coarse sand, 0.010" Stotted 18 well screen, (9.0' - 24.0' bgs). trace wood particles, loose, wet (FILL). Sand pack, (7.5' ~ 24.0' bgs). SILT: Dark grey, little very fine -20 sand, dense, wet, no odor. 28 >50 1.5 0.0 30 SAND: Dark grey, trace silt, 20 loose, wet, slight hydrocarbon 7 21 1.5 0.0 25 Bottom of boring at 24.0' bgs. Saturated Zones Remarks: Date / Time Elevation Depth 10-20-95/ 1030 -199 11.32 \$ BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS

Project: 02380

Script; nobiwell Date: 11/15/95

Page: 2 of 2

WELL	SAMPLE NO.	BLOW	DEPTH (FT)	USCS SYM.	LITH.	KMW-04 DESCRIPTION
TRAFFIC-RATED WELL COVER ONORETE BENTONITE				SM		ASPHALT 4".  GRAY, CLAYEY, SANDY, SILT, PLASTIC MOIST.
5' RISER SECTION - 2" O.D.	MW-4-3.5	2-2-2	- 5 -	SW .		DARK, SANDY, GRAVELLY DEBRIS, METAL, BRICK, WOOD.
SCHEDULE 40 PVC CASING						OUTGASSING - 5 TO 7 FEET.
SAND FILTER PACK	MW-4-8.5	7-00	- 10 -		7711	DARK, SANDY, GRAVELLY DEBRIS, METAL, BRICK, WOOD.
15' SCREEN SECTION - 2" O.D. SCHEDULE 40 PVC CASING - 0.01" SLOT	MW-4-13.5		  - 15 -	ML	_Ni⊷	GRAY, SILTY CLAY WITH DARK SPOTS, VERY PLASTIC, SATURATED.
			- 20 -	SM		GRAY, SANDY SILT.
				1		
			- 25 -			

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



DIAGNOSTIC ENGINEERING INC.

6347 SEAVIEW AVE NW, SEATTLE, WA

LOG 4 OF 8

WELL	SAMPLE	BLOW	DEPTH	uscs	LITH.	KMW-05
CONSTRUCTION	NO.	COUNT	(FT)	SYM.	Lime	DESCRIPTION
TRAFFIC-RATED WELL COVER CONCRETE BENTONITE  5' RISER SECTION 2" O.D. SCHEDULE 40 PCV CASING  15' SCREEN SECTION 2" O.D. SCHEDULE 40 PCV CASING  0.01" SLOT	MW-5-3.5 MW-5-8.5	2-1-0	10 -	SM ML		DARK GREEN GRAY, SILTY CLAY, PLASTIC, WET.  DARK GREEN GRAY, SILTY CLAY TO SANDY SILT, PLASTIC, WET, ORGANIC MATERIAL, SOME DEBRIS.  DARK GREEN GRAY, SILTY SAND, WET.

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



DIAGNOSTIC ENGINEERING INC.

6347 SEAVIEW AVE NW, SEATTLE, WA

5 0F8

WELL	SAMPLE	BLOW	DEPTH	USCS	AKA	KMW-06	
CONSTRUCTION	NO.	COUNT	(FT)	SYM.	LITH.	DESC	RIPTION .
OF TRAFFIC-RATED  OF ONCRETE  BENTONITE  5' RISER SECTION - 2° O.D. SCHEDULE 40 PVC CASING	MW-6-GRAB MW-6-3.5	15-27-15	- 5 -		0.0	BROWN/GRAY SAN SORTED. BROWN/GRAY SAN LARGER GRIT. ASPHALT AND GR. BLACK PLASTIC.	IDY GRAVEL, POORLY IDY GRAVEL WITH AVEL WITH DEBRIS, Y, BROWN, MEDIUM DEBRIS.
10/20 SILICA SAND FILTER PACK	MW-6-8.5	7-3-5	- 10 -	GW	⊈ 0 0 0 0 0 0	BROWN/GRAY, RO POORLY SORTED.	OCK, SANDY GRAVEL,
15' SCREEN SECTION 2" O.D. SCHEDULE 40 PVC CASING - 0.01" SLOT			- 15 -	SW		GRAY/BROWN SIL	TY SAND.
			- 25				±

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



DIAGNOSTIC ENGINEERING

INC.

6347 SEAVIEW AVE NW, SEATTLE, WA

6 0F8

WELL CONSTRUCTION	SAMPLE NO.	BLOW	DEPTH (FT)	USCS SYM.	AKA.	KMW-07  DESCRIPTION
TRAFFIC-RATED  TRAFFI	MW-7-3.5	3-3-1	- 5 -	sw		ASPHALT 4".  GRAVEL FILL  GRAY GRAVELLY SAND, POORLY SORTED, WET.
10/20 SILICA SAND FILTER PACK	MW-7-8.5	6-5-6	- 10 -	SM		GRAY SILTY SAND, POORLY SORTED, WET.
15' SCREEN SECTION - 2" O.D. SCHEDULE 40 PVC CASING - 0.01" SLOT	MW-7-13.5	12-18-20	- 15 -	SM	1	GRAY SILTY SAND, ORGANIC MATERIAL, WET.
NATIVE SOIL COLLAPSE AT 17'	MW-7-18.5	7-4-7	- 20 -	SM		SILTY FINE SAND, GRAY BROWN, WITH SHELLS AND PLANT MATERIAL.
			- 25 -			

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



DIAGNOSTIC ENGINEERING INC.

6347 SEAVIEW AVE NW, SEATTLE, WA

7 OF 8

WELL	CAMPIE	Diction	December :	11000	AKA	KMW-08
CONSTRUCTION	SAMPLE NO.	BLOW	DEPTH (FT)	USCS SYM.	LMH.	DESCRIPTION
TRAFFIC-RATED					54542	ASPHALT 4",
WELL COVER			-			GRAY, HARD, ASH-TUFFLIKE MATERIA
O'O CONCRETE	J - 2					-
BENTONITE						YELLOW BROWN, SILTY CLAY, PLASTIC
	MW-8-3.5	3-5-1		CL.	1777	MOIST.
5' RISER	*		+ +			
SECTION -	¥	1	- 5 -		277	
2" O.D.	- 1					The last section of the la
SCHEDULE 40					$\nabla$	WATER AT 6.5 FEET
PVC CASING			+ +			MEDIUM WELL SORTED DARK GRAY
			1			SAND, SATURATED.
	MW-8-8.5	3-3-6	LJ	SW		
40/00 00104						I
10/20 SILICA SAND FILTER			10 -			11
PACK						
						MEDIUM TO CSE DARK GRAY, WELL
						SORTED SAND, SATURATED.
15' SCREEN			1			
SECTION -		1 (2)	-			
2" O.D.	1 1 1 1 1 1 1 1		- 15 -			
SCHEDULE 40	3		1			
PVC CASING -						
0.01" O.D.						
					מינ סיני	
	11			CL.		GRAY SILTY CLAY, PLASTIC, WET.
	,					
			- 20 -		11///	
			+ +		1111	HAY!
	3				- 1	,
	4					
			1			
						9
			- 25 -			
			25			

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

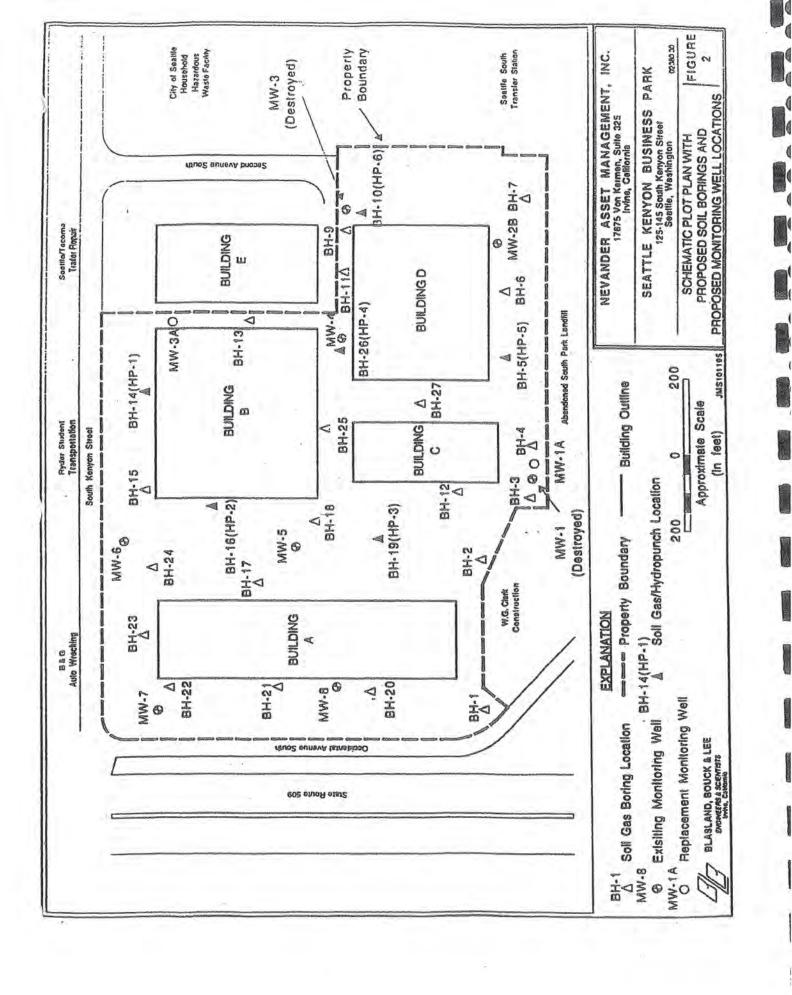
LOCATION: SOUTH PARK, SEATTLE, WA



DIAGNOSTIC ENGINEERING INC.

6347 SEAVIEW AVE NW, SEATTLE, WA

8 0F8



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.

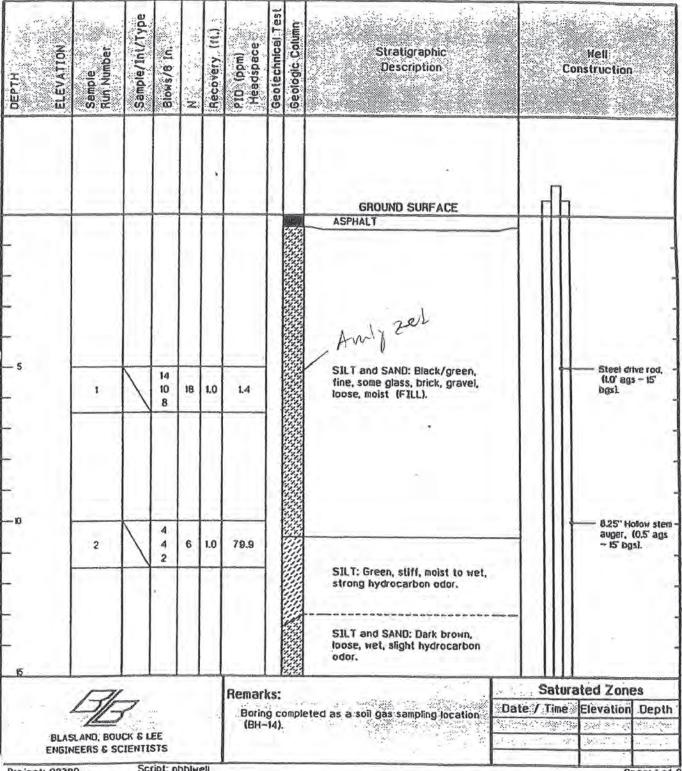
Borehole Depth: 19 ft.

Geologist: David W. Lay

Well No. HP-1

Client:
Nevander Asset Management, Inc.

Location:
Seattle, Washington



Project: 02380

Script: nbblwell Date: 11/15/95

Page: i of 2

Client:

llent: Seattle, Washington

Well No. HP-1

Total Depth = 19 1% 

Site:

Nevander Asset Management, Inc.

ОЕРТН	ELEVATION	Sample Run Number	Sample/Inl/Type	Blows/8 In.	Z	Recovery (11.)	PID (ppm) Headspace	Geolechnical Test	Geologic Column	Stratigraphic Description	Well Construction
-		3	1	1	2	1.5	4.4			SILT and SAND: Dark brown, loose, wel, slight hydrocarbon odor.	1 V4" PVC 0.010" -
				940						Bottom of boring, hydropunch driven to 19' bgs.	hydropunch screen, (IS.0" - IB.0" bgs).  Native soil
35											
	BLASI	LAND, BOUC	CK & LE	EE STS			Remari	cs:			

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-02

Borehole Depth: 14 ft.

Geologist: David W. Lay

Well No. HP-2

Client:

Nevander Asset Management, Inc.

Location:

ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	×	Recovery (11.)	PID (ppm) Headspace	Geotechnical Tes	Geologic Column	Stratigraphic Description		Well Construction
5	1		20 45 20	>50	0.5				SILT: Black/brown, some fine to coarse sand, nails, glass, refuse, loose, moist, no odor (FILL).		Steel drive rod, (LO' ags – 10' bgs).  8.25" Hollow ste auger, 10.5" ags – 10' bgs).
5	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.	Sat	11/4" PVC 0.000 Sotted hydropunch screen, (10.0" - 14.0" bgs).  Native sot.

AKA

HP-03

Date Start/Finish: 10/17/95 / 10/17/95.
Drilling Company: Tacoma Drilling Company
Orller's Name: Butch Dietsche
Drilling Method: Hollow Stem Auger
Bit Size: 8.25-in. Auger Size: 8.25-in.
Rig Type: Mobile 881
Spoon Size: 2-in.

Borehole Depth: 14 ft.

Well No. HP-3

Client:

Nevander Asset Management, Inc.

Location:

Geologist: David W. Lay

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/8 In.	2	Recovery (ff.)	PID (ppm) : Headspace	Geotechnical Test	Geológic Column	Stratigraphic Description		Well Constructio	n
				ľ					GROUND SURFACE			
									CLAY: Light grey, soft, wet.  SAND and GRAVEL: Black, fine to coarse, loose, moist (FILL).	_		
- 5	2	//		>50 >50			1	000	CONCRETE: Grey, loose, moist (FILL).		bgsl.	inve rod, gs - 10°
·ο	3		7 7 6 4 4 5	13	0.2	8			SILT and SAND: Dark brown, little clay, wood fibers, loose, moist, creosote odor (FILL).		auger, — (O' b)	(0.5' ags
			y					2.2	Bottom of boring, hydropunch driven to 14" bgs.		Slotted hydrop	unch , tro.o° –
	AND, BOUG					Remark Boring (BH-1	CO	mple	led as a soil gas sampling location	Sa Date / Ti	turated Zon	

Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Clent: Drilling Method: Hollow Stem Auger Nevander Asset Management, Inc. Bit Size: 8.25-in. Auger Size: 8.25-in. Rig Type: Mobile B61 Borehole Depth: 14 ft. Location: Spoon Size: 2-in. Seattle, Washington Geologist: David W. Lay Sample/Int/Type Geotechnical Test Geologic Column Recovery (ft.) PID (ppm) Headspace ELEVATION Sample Run Number Stratigraphic Blows/6 In. Well Description Construction DEPTH Z Made **GROUND SURFACE** ASPHALT SAND: Black, fine to coarse, Steel onve rod. (ro, ads - 10, some silt, copper wire, 15 1 >50 1.0 4.9 concrete, asbestos, refuse, 9 loose, moist (FILL). 8.25" Hollow stem auger, (0.5" ags - 10, DB2)" 7 3 7 1.0 2 4.9 4 1 1/4" PVC 0.010" Stotted Bottom of boring, hydropunch hydropunch driven to 14' bgs. screen, (10.0" -14.0' bgsl. Native sol Saturated Zones and Alberta Control Date / Time Elevation Depth Boring completed as a soil gas sampling location BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS Script: nbblwell Date: 11/15/95 Project: 02380 Page: 1 of 1

**HP-04** 

Well No. HP-4

Date Start/Finish: 10/17/95 / 10/17/95

AKA HP-05

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

Well No. HP-5

Clent

Nevander Asset Management, Inc.

Location:

ОЕРТН	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/8 In.	z	Recovery (11.)	- 0	Geotechnical Test	Geologic Column	Stratigraphic Description			Well Constructio	in
- 5		2		12 12 10 18 43 50	>50	0.5	1.6			GROUND SURFACE ASPHALT  SILT: Brown, red staining, some fine to medium sand, green/white powder, loose, moist, slight petroleum hydrocarbon odor (FILL).  Grades with concrete, tile tragments, metal, loose, wet, hydrocarbon odor.  Bottom of boring, hydropunch driven to 14' bgs.			8.25" Mauger, - 10" br	ls) (10.0° – nuch
15		AND, BOUG	IENTIS				Remark Boring (8H-5	com	plet	ed as a soil gas sampling location	dum	/ Time	ated Zone	

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

Sample/Int/Type Recovery (11. PID (ppm) Headspace Geotechnical Sample Run Number Stratigraphic Blows/6 In. Well. Description Construction GROUND SURFACE ASPHALT Steel drive rod, (LO' ags - 19' SILT and SAND: Green/grey. 20 fine to medium, little coarse 34 >50 0.6 basl 1 1.4 sand and fine gravel, loose, 34 moist (FILL). B.25" Hollow stem auger, (0.5" ags — 10" bgs). Grades with some glass and other refuse, (FILL). 7 2 0.4 10 4 3 2 1.5 1.4 CLAY: Black/grey, some organic 2 matter, soft, wet. Bottom of boring, hydropunch driven to 23' bgs. Saturated Zones Remarks: Date / Time Elevation Depth Boring completed as a soil gas sampling location (BH-9). BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS Script: nbbluell Date: II/15/95 Project: 02380 Page: 1 of 2 Client

Seattle, Washington

Site:

Nevander Asset Management, Inc.

Hell No. HP-6

Total Depth = 23 ft.

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geolechnical Test	Geologic Column	Stratigraphic Description		Co	Well Instruction	
											CHICHITETH THE THE CONTRACT OF	B25" Ho auger, to 18' bg  1 1/4" P\ Stotted hydropu screen, 23.0' bg  Nathve s	118.0' - sl
	AND, BOUC	ENTIS				Remark Initial produ driver	hy	wate	ounch driven to 16' bgs did not er, second successful hydropunch bgs.	Branch Company	Time	ted Zone	

Well No. BH-1 Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Client: Drilling Method: Solid Stem Auger Nevander Asset Management, Inc. Bit Size: 4-in. Auger Size: 4-in. Borehole Depth: 6 ft. Rig Type: Mobile B61 Location: Spoon Size: -1-in. Seattle, Washington Geologist: David W. Lay Geotechnical Test Sample/Int/Type Recovery (ft. PID (ppm) Headspace Sample Run Number Stratigraphic Blows/6 In. Well Description Construction GROUND SURFACE STREET, STREET Native backfil. (0.0' - 2.0' bgd). V4' Tellon tubing, 1.0' ags - 5.6' bgsl. Hydrated Soil samples not collected. bentonte seal, (2.0' - 4.0' bgs). vapor probe advanced with a solid stem auger. Sand pack, (4.0' - 8.0' bgsl. 1/4' Stainless steel screen point. Saturated Zones Remarks: Date / Time Elevation Depth BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS

Project: 02380

Script: nbblwell Date: 11/15/95

Date Start/Finish: 10/19/95 / 10/19/95

BH-02

Date Start/Finish: 10/19/95 / 10/19/95 Orllling Company: Tacoma Orilling 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.

Well No. BH-2

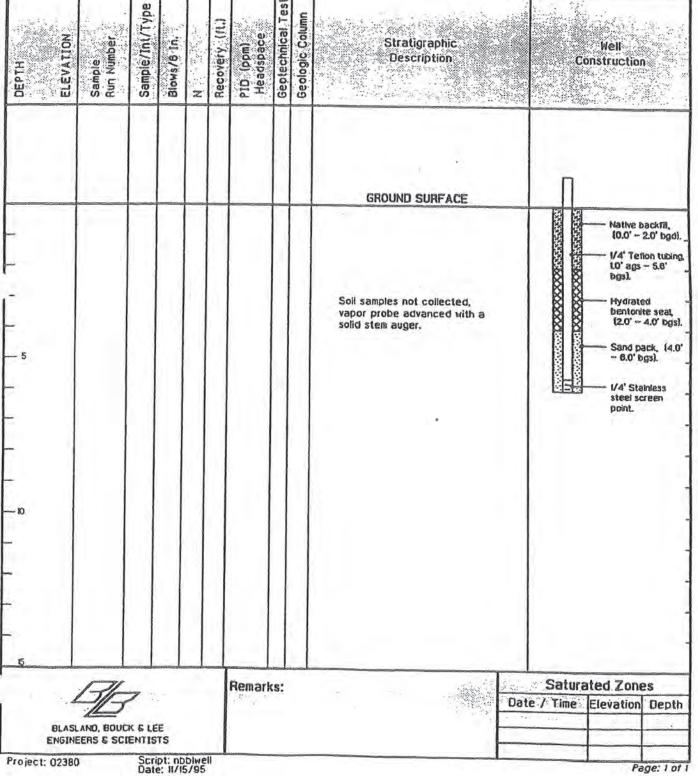
Client:

Nevander Asset Management, Inc.

Location:

Seattle, Washington

	1 3 \$ \$	and we	(A)	i	Geolog	lst: David	W. Lay	11	
8.0			ad.		Test		S. FAMILY &	State A	45.438



Date Start/Finish: 10/19/95 / 10/19/95
Drilling Company: Tacoma Drilling Company
Driller's Name: Butch Dietsche
Drilling Method: Solid Stem Auger
Blt Size: 4-in. Auger Size: 4-in.
Rig Type: Mobile B61
Spoon Size: -1-in.

AKA BH-0

Geologist: David W. Lay

Borehole Depth: 6 1t.

Nell No. BH-3 Client:

200

Nevander Asset Management, Inc.

Location:

Seattle, Washington

Sample/Int/Type Geologic Column Recovery (ft.) Geotechnical PID (ppm). Headspace Sample Run Number Blows/8 In. Stratigraphic Well Description Construction **GROUND SURFACE** Native backill, (0.0' - 2.0' bgd). 1/4' Tellon tubing. 10' ags - 5.6' Hydrated Soil samples not collected, bentorite seal, (2.0' - 4.0' bgs). vapor probe advanced with a solid stem auger. Sand pack, (4.0' - 6.0' bgs). 1/4' Stainless steel screen point Saturated Zones Remarks: Date / Time Elevation Depth BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS

AKA BH-04

Date Start/Finish: 10/19/95 / 10/19/95 Orilling Company: Tacoma Orilling Company Triller's Name: Butch Dietsche

Orlling 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:

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/8 In.	Z	Recovery (11.)	PID (ppm). Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description		Co	Well Instruction	
									GROUND SURFACE			Native b	ackte
5 5									Soil samples not collected, vapor probe advanced with a solid stem auger.			Native by (0.0° = 2° 1/4° Ten to ags bgs).  Hydrate bentonit (2.0° = 2° 5 and pa = 6.0° b)  1/4° Stal steel sc point.	on tubing 5.6°  d e seal. 4.0° bgsl. ick, (4.0° gsl.
5	45					Remarl	cs:			Date		sted Zone	
	LAND, BOUG	IENTIS		DD!									ige: 1 of

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.

Client: Nevander Asset Management, Inc.

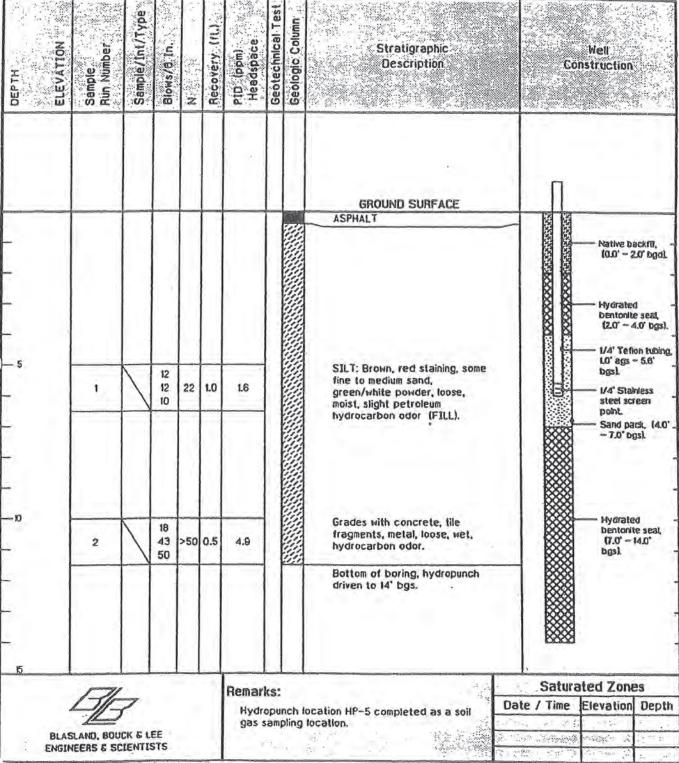
Borehole Depth: 14 ft.

**BH-05** 

Location: Seattle, Washington

Well No. BH-5

Geologist: David W. Lay



Project: 02380

Script: nbblwell Date: 11/15/95

**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 Blt Size: 4-in. Auger Size: 4-in. Rig Type: Mobile B61 Spoon Size: -1-in.

Well No. BH-6 Client

Borehole Depth: 6 ft.

Geologist: David W. Lay

Nevander Asset Management, Inc.

Location:

DEPTH ELEVATION	Sample Run Number:	Sample/Int/Type Blows/8 In	z	Recovery (IIL)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic: Description	C	Well onstruction	
								GROUND SURFACE		Native b	ackf8,
- - - -								Soil samples not collected, vapor probe advanced with a solid stem auger.	**************************************	V4' Teff t0' ags - bgsl.  Hydrate bentorit (20' -	on tubing 5.6°  d e seat, 4.0° bgs). lock, [4.0°
					Remark	ke:			Satur	ated Zone	23
20 45	BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS					19:			Date / Time	Elevation	-

Well No. BH-7 Date Start/Finish: 10/19/95 / 10/19/95 Orilling Company: Tacoma Drilling Company Client: Driller's Name: Butch Dietsche Nevander Asset Management, Inc. Drilling Method: Solid Stem Auger Borehole Depth: 6 ft. Bit Size: 4-in. Auger Size: 4-in. RIG Type: Mobile B61 Seattle, Washington Spoon Size: -1-in. Geologist: David W. Lay Sample/Int/Type Geotechnical T Recovery (11) PID (ppm) Headspace Stratigraphic Well Blows/6 In. Description Construction GROUND SURFACE Native backfl, (0.0' - 2.0' bgd). I/4" Tetlan tubing. 1.0" ags - 5.6" bgs). Hydrated bentonite seat, (2.0" - 4.0" bgs). Soil samples not collected, vapor probe advanced with a solid stem auger. Sand pack, (4.0' - 6.0' bgs). V4' Stahless steel screen point

Project: 02380

BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS

Script: nbblwell Date: 11/15/95

Remarks:

Saturated Zones

Date / Time

Page: 1 of 1

Elevation Depth

BH-08

Date Start/Finish: 10/19/95 / 10/19/95 Drilling Company: Tacoma Drilling Company Oriller's Name: Butch Dietsche

Drilling Method: Solid Stem Auger Blt Size: 4-in. Auger Size: 4-in. Rig Type: Mobile 881 Spoon Size:-1-in.

Borehole Depth: 6 ft.

Geologist: David W. Lay

Well No. BH-8

Cllent:

Nevander Asset Management, Inc.

Location:

DEPTH	Sample Run Number	Sample/Int/Type	Blows/6 In.	Z	Recovery (ft.)	PID: (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description		Well Construction	n
									GROUND SURFACE		Native i	backfe, 2.0° bgd)
- 5									Soil samples not collected, vapor probe advanced with a solid stem auger.	(B)	1/4' Tei 1.0' ags bgs). Hydrati bentoni (2.0' –	ed te seal, 4.0' bgs) ack, (4.0 bgs).
-10												
15												
BLASLAND, BOUCK & LEE					F	Remark	s:			Satu Date / Time	rated Zone	

Well No. BH-9 Date Start/Finish: 10/18/95 / 10/18/95 BH-09 Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Client: Nevander Asset Management, Inc. Drilling Method: Hollow Stem Auger Bit Size: 8.25-in. Auger Size: 8.25-in. Borehole Depth: 23 ft. Location: RIG Type: Mobile B61 Seattle, Washington Spoon Size: 2-in. Geologist: David W. Lay Sample/Int/Type Column Geolechnical PID (ppm) Headspace Sample Run Number ELEVATION Stratigraphic Well Blows/8 In. Recovery Geologic Description Construction DEPTH **GROUND SURFACE** ASPHALT STREETS STREET Native backfil, (0.0' - 20' ogs). Hydrated bentonite seal, (2.0° - 4.0° bgs). Va Tellon tubing, (LO ags -Se' Darl SILT and SAND: Green/grey. fine to medium, little coarse 1 34 >50 0.6 1.4 1/4" Stainless sand and fine gravel, loose, 34 steel screen moist (FILL). point Sand pack, (4.0" - 7.0' bgsl. Hydrated Grades with some glass and bentonite seal, other refuse, (FILL). 17.0 - 23.01 7 17 0.4 4.4 2 10 2 1.5 3 4 14 CLAY: Black/grey, some organic 2 matter, soft, wet. Bottom of boring, hydropunch driven to 23' bgs. Saturated Zones Remarks: Elevation Depth Date / Time Hudropunch location HP-6 completed as a soil gas sampling location. BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS Page: 1 of 2 Project: 02380

Script: nbblwell Date: 11/15/95

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/8 In.	<b>X</b>	Recovery (ft.)	PIO (ppm) Headspace	Geolechnical Tes	Geologic Column	Stratigraphic Description	Ca	Well Instruction	
-20 -25											Hydrates bentonib (7.0° – 2	d e seal, 23.0%
35								AMERICA	MINOCO SALVANO			
	17/	7			1	Remark	3:		4.03		ted Zone	
1	15									Date / Time	Elevation	Depti
BLASE	AND, BOUCE	K & LE	E TS		1				1			-

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	Sample Run Number:	Sample/Int/Type	Blows/8 In.	Z	Recovery (ft.)	Headspace	Geotechnical Test	THINDS DIFFORD		tigraphic scription		21.44	Well struction	
- 5 - 5 10								1	GROUNT Soil samples n vapor probe a soild stem aus	advanced w	d.	10)		d e seal, LO bgs). ck, (4,0°
	SLAND, BOUC NEERS & SCI	ENTIS		Diwell		mark	S:					ime	ted Zone	

Date Start/Finish: 10/19/95 / 10/19/95 Orilling Company: Tacoma Drilling Company Orller's Name: Butch Dietsche Drilling Method: Solid Stem Auger BIt Size: 4-in. Auger Size: 4-in.

RIG Type: Mobile 881 Spoon Size: -I-in.

Well No. BH-12

Clent

Nevander Asset Management, Inc.

Location:

Seattle, Washington

Borehole Depth: 6 It.

Geologist: David W. Lay

Sectechnical Test Sample/Int/Typ Geologic Column PID (ppm) Headspace ELEVATION Stratigraphic Recovery Well Sample Run Numbe Blows/8 Description Construction Z GROUND SURFACE Native backfil, (0.0' - 2.0' bgd). 1/4" Terion tubing LO' ags - 5.0' bgsl Soil samples not collected. Hydrated bentonite seal (2.0' - 4.0' bgs). vapor probe advanced with a solid stem auger. Sand pack, (4.0" - 6.0° ogs). 1/4' Stelviess steel screen point. Saturated Zones Remarks: Elevation Depth Date / Time BLASLAND, BOUCK & LEE

ENGINEERS & SCIENTISTS

Project: 02380

Script: nbb/well Date: 11/15/95

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 1t.

Geologist: David W. Lay

Well No. BH-13 Client:

Nevander Asset Management, Inc.

Location: Seattle, Washington

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type Blows/8 In.	 PID (ppm). Headspace	Geotechnical Test	Stratigraphic Description	Well Construction
					GROUND SURFACE	
-5					Soil samples not collected, vapor probe advanced with a solid stem auger.	Native backfit, (0.0' - 2.0' bgd).  1/4' Teflon tubing, 10' 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		<u> </u>	Remar	ks:		Saturated Zones Date / Time Elevation Dept
BLA	SLAND, BOUCK NEERS & SCIE	& LEE NTISTS				

Date Start/Finish: 10/18/95 / 10/18/95 Inrilling Company: Tacoma Drilling Company Iller's Name: Butch Dietsche illing Method: Hollow Stem Auger

To a second file

alt Size: 8.25-in. Auger Size: 8.25-in. Rig Type: Mobile 861 Spoon Size: 2-in.

Borehole Depth: 19 ft.

Geologist: David W. Lay

Well No. BH-14

Clent:

Nevander Asset Management, Inc.

Location:

Seattle, Washington

ОЕРТН	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/8 In.	z	Recovery (ft.)	PID (ppm). Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description		Co	Well Instruction	
-										GROUND SURFACE ASPHALT		KONTON	Native ba	ockfē,
- - 5 -		1		14 10 8	18	1.0	1.4			SILT and SAND: Black/green, fine, some glass, brick, gravel, loose, moist (FILL).		(U) (IVXXXXXXXIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Hydrated bentonite (2.0' - 4	seal, .0' bgs]. on .0' - 5.6'
IO.		2		4 4 2	6	1.0	79.9			SILT: Green, stiff, moist to wet, strong hydrocarbon odor.			Hydrate- bentonit (7.0° to bgs).	e seat
- 15										SILT and SAND: Dark brown, loose, wet, slight hydrocarbon odor.				
		SLAND, BOU						opur		location HP-1 completed as a soil focation.	Date /	Time	The second second	

Project: 02380

Script: nbblwell Date: 11/15/95

Client: Seattle, Washington Well No. BH-14

Total Depth = 19 ft.

Site

Nevander Asset Management, Inc.

DEPTH ELEVATION	Sample Rún Number	Sample/Int/Type	Blows/6 In.	z	Recovery (ft.)	PiO (bpm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Co	Well nstruction	
	3		1 1		1.5	4.4			SilT and SAND: Dark brown, loose, wet, slight hydrocarbon odor.  Bottom of boring, hydropunch driven to 19' bgs.		Hydrated bentonite (7.0° to 1 bgs).	seal,
35						Remar	ks:	e re		Satur Date / Time		

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:

DEPTH ELEVATION	Semple Run Number	Sample/Int/Type	Blows/6 In.	N.	Recovery (11.)	PID (ppm) Headsbace	Geolechnical Test	Geologic Column	Stratigraphic Description	71 (1)	Well Construction
_									GROUND SURFACE		Native backte, (0.0" – 2.0" bgd)
- - 5									Soil samples not collected, vapor probe advanced with a solid stem auger.	×	Native backf8, (0.0" – 2.0" bgd)  1/4" Teffon tubing 1.0" ags – 5.8" bgs].  Hydrated bentonite seal, (2.0" – 4.0" bgs).  Sand pack, (4.0" – 6.0" bgs).  1/4" Stainless steel screen point.
10											
BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS						Remark	s:			S Date /	aturated Zones

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.

Borehole Depth: 14 ft.

Geologist: David W. Lay

Well No. BH-16

Client:

Nevander Asset Management, Inc.

Location:

DEPTH ELEVATIÓN	Sample Run Number	Sample/Int/Type	Blows/8 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Tes	Geologic Column	Stratigraphic Description	Well Construction	
									GROUND SURFACE	Native ba	ickfë, .0° bgs).
- 5	1		20 45 20	>50	0.5	je je			SILT: Black/brown, some fine to coarse sand, nails, glass, refuse, loose, moist, no odor (FILL).	Hydrated bentonite (2.0° - 4	e seal ,0' bgs). on 10' ags inless een
-10	2		2 2 2	4	1.5	37.3			3-inch layer of black oily far, petroleum hydrocarbon odor.  SILT: Green/grey, some fine sand and organic matter, loose, wet (NATIVE).  Bottom of boring, hydropunch driven to 14' bgs.	Hydrate bentonit (7.0° – bgs).	e seal.
	SLAND, BOL					Remar Hydr gas :	opu	nch lo	cation HP-2 completed as a soil ocation.	 urated Zone	_

Date Start/Finish: 10/18/95 / 10/18/95 Orlling Company: Tacoma Drilling Company Triller's Name: Butch Dietsche Irilling 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/Int/Type	Blows/8 In.	z	Recovery (11.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	c	Well onstruction	
										GROUND SURFACE			
5							*			Soil samples not collected, vapor probe advanced with a solid stem auger.	######################################	Native b (0.0' - 3'	2.0° bgd on tubin - 5.0° d e seat 4.0° bgs ich, (4.0° gs).
-10		/S/j-	7				Remark	cs:			Satur Date / Time	ated Zone	-

Dete 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.
Borehole Depth: 6 ft.
Location:
Seattle, Washington

Well
Description

Well
OD
Description

Well
OD
Description

Construction

DEPTH ELËVATION	Sample Run Number	Sample/Int/Type	Blows/8 In.	Z.	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Well Description Construction
									GROUND SURFACE  Rative backfli., (0.0" – 2.0" bgd).
_ _ _ 5 _									Soil samples not collected, vapor probe advanced with a solid stem auger.  Sand pack, [4.0" – 8.0" bgs].  Sand pack, [4.0" – 6.0" bgs].
10 									
	SLAND, BOU	LENTIS			100	Remari			Saturated Zones  Date / Time Elevation Depth

Project: 02380

Script: nbblwell Date: 11/15/95

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 861
Spoon Size: 2-in.

Borehole Depth: 14 ft.

Well No. BH-19

Clent

Nevander Asset Management, Inc.

Location: Seattle, Washington

Geologist: David W. Lay

Sample/Int/Type Geolechnical T PID (ppm) Headspace Sample Run Number ELEVATION Stratigraphic Well Recovery Blows/8 Description Construction DEPT Z GROUND SURFACE ASPHALT Native backie. (0.0° - 2.0° bgs). CLAY: Light grey, soft, wet. Hydrated bentonite seal SAND and GRAVEL: Black, fine (2.0" - 4.0" bgs). to coarse, loose, moist (FILL). V4 Tellon tubing, (LO' ags -5.6' bgs). 50 >50 0.2 1 CONCRETE: Grey, loose, moist Stainless steel (FILL). 2 50 >50 0.3 screen point. Sand pack, (4,0° - 7,0° bgs). 7 7 3 13 0.2 6 SILT and SAND: Dark brown, little clay, wood fibers, loose, 4 moist, creosote odor (FILL). 4 4 9 1.5 8 5 Hydrated bentonite seal, (7.0' - 14.0' Bottom of boring, hydropunch driven to 14' bgs. Dosl Saturated Zones Remarks: Date / Time Elevation Depth Hydropunch location HP-3 completed as a soil gas sampling tocation. BLASLAND, BOUCK & LEE

Project: 02380

ENGINEERS & SCIENTISTS

Script: nbblwell Date: 11/15/95

Well No. BH-20 Drilling Company: Tacoma Drilling Company Driller's Name: Butch Dietsche Client Drilling Method: Solid Stem Auger Nevander Asset Management, Inc. Bit Size: 4-in. Auger Size: 4-in. Borehole Depth: 6 ft. RIg Type: Mobile B61 Location: Spoon Size: -I-in. Seattle, Washington THE THE PARTY OF T Geologist: David W. Lay Geolechnical Test Sample/Int/Type Geologic Column Recovery (ft.) PID (ppm) Headspace Sample Run Number ELEVATION Blows/8 In. Stratigraphic Description Well Construction Z **GROUND SURFACE** STREET, STREET Native backfil. (0.0' - 2.0' bgd). 1/4' Teffon tubing. LO' ags - 5.6' egs). Soil samples not collected. Hydrated bentonite seat, vapor probe advanced with a (2.0' - 4.0' bgs). solid stem auger. Sand pack, (4.0' - 8.0' bgs). 1/4' Stainless steel screen point Saturated Zones Remarks: Date / Time Elevation Depth BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS Script; nbblwell Date: 11/15/95 Project: 02380 Page: 1 of 1

Date Start/Finish: 10/19/95 / 10/19/95

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 861 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/Int/Type	Blows/8 In.	N	Recovery (ft.)	PID (ppm): Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description		Well Construct	ion
								SHARE	GROUND SURFACE			
- 5									Soil samples not collected, vapor probe advanced with a solid stem auger.		Sand - 6.0'	e backta, - 2.0° bgd efton tubin is - 5.6°  uted nite seat, - 4.0° bgs)  pack, (4.0° bgs).  tainess screen
5 BLASLAN ENGINEER	D, BOUCK	6 LEE			Re	emarks	:			Satur Date / Time	ated Zoni Elevation	

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

Hell No. BH-22

Client:

Nevander Asset Management, Inc.

Location:

Seattle, Washington

DEPTH	Sample Run Number	Sample/Int/Type	Blows/8 In.	Recovery (11.)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Well Description Construction
(24) +215 at								GROUND SURFACE
- 5 - 5 5								Soil samples not collected, vapor probe advanced with a stem auger.  Sand pack, (4 — 6.0° bgs).  Native backfill, (0.0° - 2.0° bg 1.0° ags - 5.6° bgs).  Hydrated bentonite seat (2.0° - 4.0° bg 1.0° ags - 5.6° bgs).  Sand pack, (4 — 6.0° bgs).
	1 1		1					

Date Start/Finish: 10/19/95 / 10/19/95
Drilling Company: Tacoma Drilling Company
Jriller's Name: Butch Dietsche
Jrilling Method: Solid Stem Auger
Bit Size: 4-in. Auger Size: 4-in.
Rig Type: Mobile B81
Spoon Size: -1-in.

Borehole Depth: 6 ft

Client:

Well No. BH-23

Nevander Asset Management, Inc.

Location:

Seattle, Washington

Geologist: David W. Lay

Sample/Int/Type Geolechnical T Recovery (11.) PID (ppm) Headspace Sample Run Number ELEVATION Blows/8 In. Stratigraphic Well Description Construction Z GROUND SURFACE STATE OF THE PROPERTY OF THE P Native backfill, (0.0' - 2.0' bgd). Va' Tetion tubing 10, sdz – 2'6, Hydrated bentonite seal (2.0' - 4.0' bgs). Soil samples not collected. vapor probe advanced with a solid stem auger. Sand pack, (4.0' - 6.0' bgs). 1/4' Staivess steel screen pohl Remarks: Saturated Zones Date / Time Elevation Depth BLASLAND, BOUCK & LEE ENGINEERS & SCIENTISTS

Project: 02380

Script: nbblwell Date: 11/15/95

Page: 1 of 1

Date Start/ Orlling Comp Orller's Nam Orlling Meth Bit Size: 4- Rig Type: M Spoon Size:	pany: Tac ne: Butch nd: Solid in. Auger obile B61	oma Diets Stem Slze	Drillir che Aug	ng Co er		B	oret Ge	olog	Client: Nevand Depth: 6 ft.	e, Washington
DEPTH ELEVATION	Sample: Run Number	Sample/Inl/Type	Bio⊌s/8 In.	Z	Recovery (11.)	PID (ppm) Headspace	Ees!	C.		Well Construction
									GROUND SURFACE	
- 5 - 5 - 70									Soil samples not collected, vapor probe advanced with a solid stem auger.	Native backfil, (0,0' - 2,0' bgd).  1/4' Tefton tubing, 10' ags - 5.6' bgs1.  Hydrated bentonite seal, [2,0' - 4,0' bgs].  Sand pack, (4,0' - 6,0' bgs).  1/4' Stainless steel screen point.
5 BLAS ENGIN	SLAND, BOU	IENTI	EE STS ript: n		*	Remar	ks:			Saturated Zones  Date / Time   Elevation   Depth

Date Start/Finish: 10/19/95 / 10/19/95 Trilling Company: Tacoma Drilling Company /Iller's Name: Butch Dietsche

/illing Method: Solid Stem Auger Blt Size: 4-in. Auger Size: 4-in. Rig Type: Mobile B61 Spoon Size: -1-in.

Well No. BH-25 Cllent:

Nevander Asset Management, Inc.

Geologist: David W. Lay

Borehole Depth: 6 ft.

Location: Seattle, Washington

ОЕРТН	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	П
- 5										Soil samples not collected, vapor probe advanced with a solid stem auger.	Native backfill, (0.0° - 2.0° bgd).  V4' Teflon tubing L0' 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.
15		13/1-				1	Remari	ıs:			Saturated Zones  Date / Time: Elevation Depti
		AND, BOUL									DOSC / Time : Clevation Dept

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 1t.

Geologist: David W. Lay

Well No. BH-26

Client

Nevander Asset Management, Inc.

Location:

Seattle, Washington

DEPTH ELÉVATION	Sample Ruh Number	Sample/Int/Type	Blows/8 In.	×	Recovery (11.)	PID (ppm) Heedspace	Geotechnical Tes	Geologic Column	Stratigraphic Description		C	Well onstruction	
									GROUND SURFACE ASPHALT	-	Takana a	Native I	oackfil, 20' bgs
- 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).			Hydrate benton (2.0°	ed te seat, 4.0' bgs flon tubin s = 5.6' inless reen
-10	2		7 3 4	7	1.0	4.9			Bottom of boring, hydropunch driven to 14' bgs.			Hydrate bentoni (7.0' – bgsl.	te seal
	AND, BOUG					gas sa	punc	ing to	cation HP-4 completed as a soil ocation.	-	/ Time	ated Zone	

Date Start/Finish: 10/19/95 7 10/19/95
-Illing Company: Tacoma Drilling Company
Iller's Name: Butch Dietsche
rilling 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:

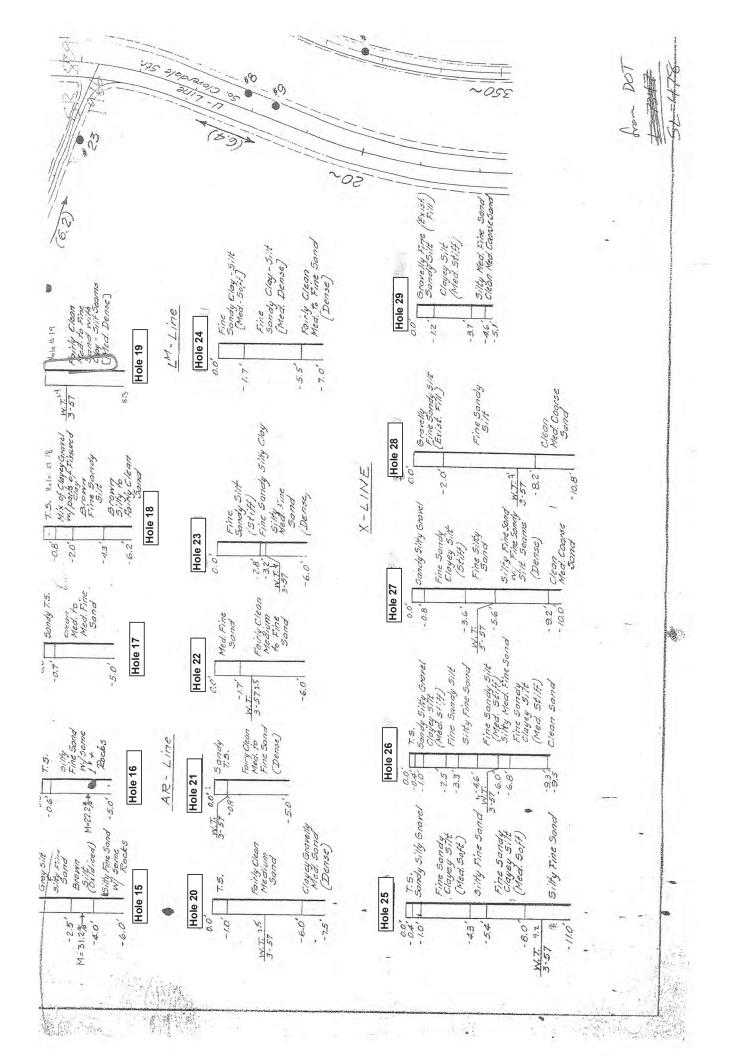
Nevander Asset Management, Inc.

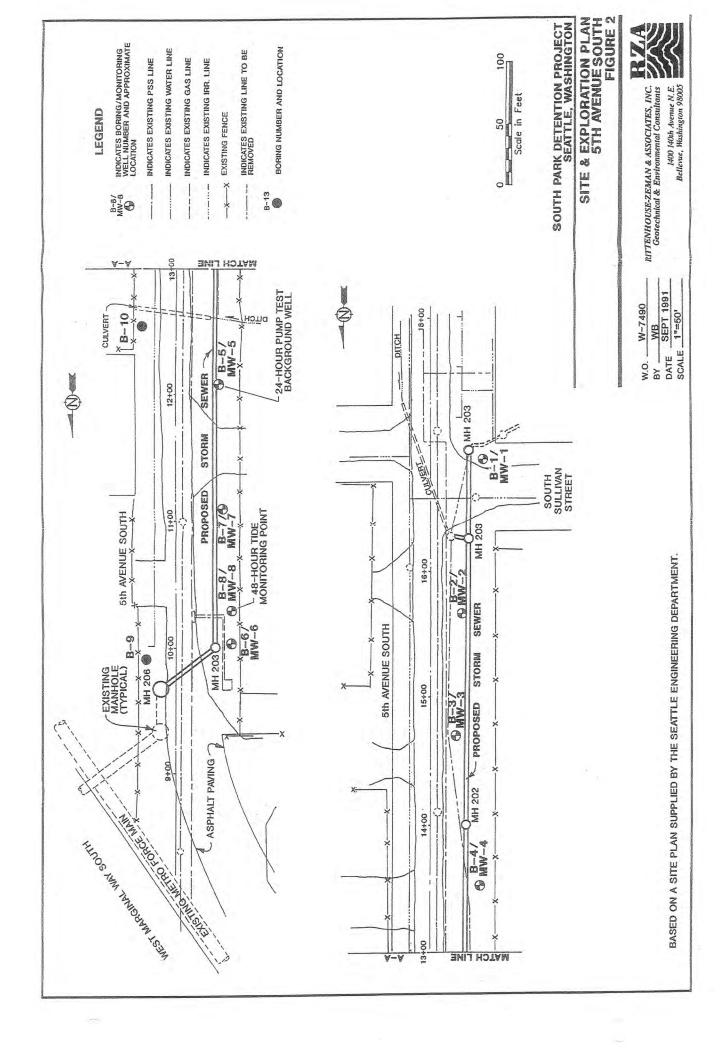
Location:

Seattle, Washington

ELEVATION Sample Run Number	Sample/Int/Type	Blows/6:In.	Recovery (11.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
							GROUND SURFACE	П
- 5							Soil samples not collected, vapor probe advanced with a solid stem auger.	Native backfil, (0.0' - 2.0' bgd).  V4' Tefion tubing. 10' ags - 5.6' bgs].  Mydrated bentonite seal, (2.0' - 4.0' bgs).  Sand pack, (4.0' - 6.0' bgs].  1/4' Stainless steel screen point.
-10 - - 5				Rema	rks			Saturated Zones  Date / Time Elevation Dept
			70			14.0		"Coto A Time Presenting och

Historical 5<sup>th</sup> Avenue South and South Sullivan Street Borings/Wells





PROJECT DETENTION PROJECT W.O. W-7490 Elevation reference: Well completed: 25 March 1991 AS-BUILT DESIGN Ground surface elevation: Casing elevation: SAMPLE BLOW READING DEF (fee Flush-mounted SOIL DESCRIPTION steel monument 0 Ground surface Moist, brown, silty, gravelly, fine to medium SAND (Fill) Top of casing Concrete ATD Bentonite seal Casing 5 (Schedule-40 2-inch I.D. PVC) 10-20 sand Loose, wet, grey, medium, SAND, filler pack trace twigs, interbedded with soft moist brown sill 3 0 Screen TOX 8240 (2-inch I.D. PVC - 10 with 0.010-inch slots) Threaded end cap 2 5-3 0 Very soft, moist, grey and brown sandy SILT with fine sand stringers, some twigs and wood 418.1 2 3 TOX Melals - 20 Bottom of boring at 19.5 feet 25 30 LEGEND 2-inch 0.D. RITTENHOUSE-ZEMAN & Observed groundwater level (ATD = at time of drilling) split-spoon sample ASSOCIATES, INC. Geolechnical & Chemical analysis (EPA method shown) Environmental Consultants Sample not recovered 1400 140th Ave NE' Bellevue, Washington 98005 Drilling started: 25 March 1991 Drilling completed: 25 March 1991 Logged by:

AKA

**RMW-01** 

SOUTH PARK

DETENTION PROJECT WELL NO. MW-2 Elevation reference: Well completed: 25 March 1991 AS-BUILT DESIGN Ground surface elevation: Casing elevation: FESTING SAMPLE SAMPLE BLOW GROUND READING (feet Flush-mounted SOIL DESCRIPTION steel monument 0 Ground surface Top of casing Loose, moist, brown, silty gravelly, Concrete medium SAND (Fill) Bentonite seal 5-1 2 0 - Casing (Schedule-40 5 2-inch I.D. PVC) 10-20 sand filter pack Loose, wet, dark grey to black medium to fine SAND interbedded 418.1 5-2 7 0 with grey silt TOX Screen 8240 (2-inch I.D. PVC AID 10 with 0.010-inch slots) Threaded end cap Soft, wet, grey brown SILT, some wood fibers 0 5-3 Very soft, wet, grey SILT 418.1 5-4 0 TOX 20 Bottom of boring at 19.5 feet 25 30 LEGEND 2-inch O.D. Observed groundwater level (ATD = at time of drilling) RITTENHOUSE-ZEMAN & split-spoon sample ASSOCIATES, INC. Geolechnical & Chemical analysis Environmental Consultants (EPA method shown) 1400 140th Ave NE Bellevue, Washington 98005 Drilling started: 25 March 1991 Drilling completed: 25 March 1991 Logged by: WB

SOUTH PARK

PROJECT

AKA - RMW-02

W.O. W-7490

AKH

W.O. W-7490

**RMW-03** 

SOUTH PARK

PROJECT

PROJECT DETENTION PROJECT W-7490 W.O. WELL NO. MW-4 Elevation reference: Well completed: 25 March 1991 AS-BUILT DESIGN Cround surface elevation: Casing elevation: TESTING SAMPLE SAMPLE BLOW READING GROUND (feet) Flush-mounted SOIL DESCRIPTION steel monument 0 Ground surface Moist, light brown, sitty fine SAND Top of casing Concrete Bentonite seal Loose, moist, light brown, fine SAND. Casing 418.1 10 0 some silty fine sand, some roots (Schedule-40 2-inch I.D. PVC) 5 TOX 8240 10-20 sand filler pack Screen 12-inch I.D. PVC 5-2 5 0 10 with 0.010-inch slots) 418.1 9 0 5 TOX Metals Loose, wet, dark grey to black, fine SAND Threaded end cap 6 0 20 Trace gravel Bottom of boring at 20.5 feet 25 30 LEGEND 2-inch O.D. RITTENHOUSE-ZEMAN & Chemical analysis split-spoon sample ASSOCIATES, INC. (EPA method shown) Geolechnical & Environmental Consultants Sample not recovered 1400 140th Ave NE Bellevue, Washington 98005 Drilling started: 25 March 1991 Drilling completed: 25 March 1991

SOUTH PARK

AKA

RMW-04

SOUTH PARK PROJECT DETENTION PROJECT

W.O. W-7490

**RMW-05** WELL NO. MW-5

Elevation reference: Well completed: 25 Morch 1991 AS-BUILT DESIGN Graund surface elevation: Casing elevation: TESTING SAMPLE SAMPLE GROUND BLOW READING DEPT (feet Flush-mounted SOIL DESCRIPTION steel monument 0 Ground surface Top of casing (Blow counts overstated) Concrete Very dense, moist, brown, silly fine Bentonite seal 60 SAND, some roots and twigs, trace 5-1 0 for gravel Casing 8" (Schedule-40 5 2-inch I.D. PVC) Debris - paper, cloth 10-20 sand filter pack Loose, moist to wet, brown, silly fine SAND, some roots and wood Screen 418.1 5-2 24 4 TOX (2-inch I.D. PVC 8240 - 10 with 0.010-inch slots) Very soft, wet, grey brown sandy SILT, some twigs 4181 5-3 0 TOX Metols Medium stiff, wet, grey brown, sandy 8 0 Threaded end cap SILT with interbedded dark grey to black, fine to medium sand 20 Loose, wel, dork grey to black, fine 5-5 to medium SAND 0 2 25 Bottom of boring at 24.5 feet 30 LEGEND RITTENHOUSE-ZEMAN & 2-inch O.D. Observed groundwater level split-spoon sample ASSOCIATES, INC. (ATD = at time of drilling) Geolechnical & Environmental Consultants Chemical analysis 1400 140th Ave NE Bellevue, Washington 98005 (EPA method shown)

## SOUTH PARK PROJECT DETENTION PROJECT

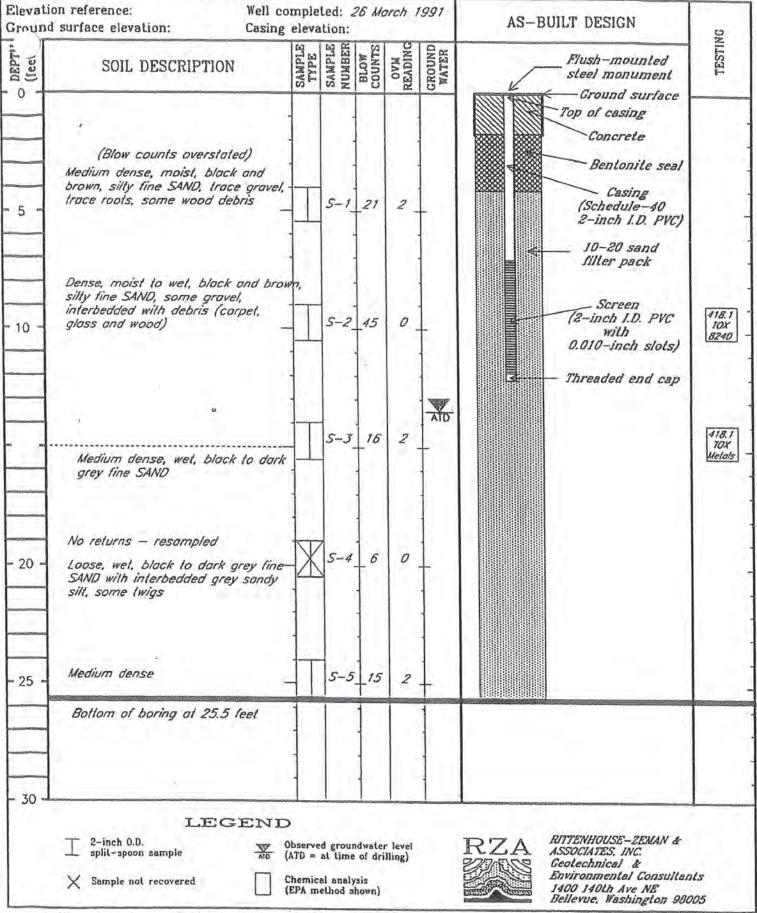
W.O. W-7490

RMW-06
WELL NO. MW-6

Elevation reference: Well completed: 25 March 1991 AS-BUILT DESIGN Ground surface elevation: Casing elevation: TESTING SAMPLE SAMPLE BLOW GROUND OVM READING (feel, Flush-mounted SOIL DESCRIPTION steel monument 0 Ground surface Top of casing Concrete Medium dense, moist, dark brown, Bentonite seal silty fine SAND, some gravel, some 5-1 12 2 debris (broken glass, burnt wood) - Casing (Schedule-40 5 2-inch I.D. PVC) 10-20 sand filler pack (blow counts overstated) 50 Some wood debris for 6 Screen 4" 12-inch I.D. PVC - 10 with 0.010-inch slots) Medium dense, wel, black, silty fine AID to medium SAND, trace gravel, trace 418.1 5-3. 60 debris (glass), some petroleum 16 TOX hydrocarbon sheen 8240 Medium stiff, wet, grey brown, sandy SILT, trace twigs 5-4 6 9 20 Threaded end cap Medium dense, wel, black, fine to medium SAND, some petroleum 418.1 5-5 82 14 TOX hydrocarbon sheen Melols 25 Bottom of boring at 24.5 feet 30 LEGEND RITTENHOUSE-ZEMAN & 2-inch O.D. Observed groundwater level (ATD = at time of drilling) split-spoon sample ASSOCIATES, INC. Geolechnical & Environmental Consultants Chemical analysis 1400 140th Ave NE (EPA method shown) Bellevue, Washington 98005

SOUTH PARK
PROJECT DETENTION PROJECT

W.O. W-7490 WELL NO. MW-7



SOUTH PARK
PROJECT DETENTION PROJECT

W.O. W-7490

RMW-08
WELL NO. MW-8

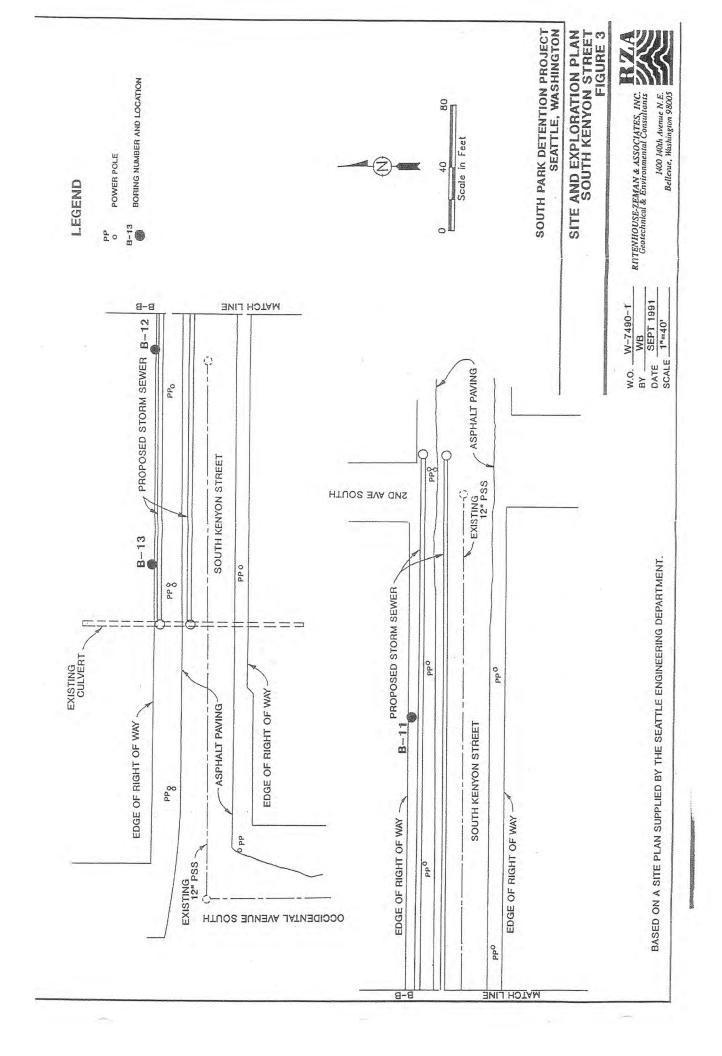
Elevation reference: Well completed: 26 March 1991 AS-BUILT DESIGN C-nund surface elevation: Casing elevation: SAMPLE BLOW OVM READING GROUND (feel) Flush-mounted SOIL DESCRIPTION steel monument 0 Ground surface Top of casing Concrete Loose, moist, dark brown, silty fine SAND, trace gravel, abundant 7 5-1. Bentonite seal 12 debris (wood, plastic, metal) Casing (Schedule-40 5 Plastic bags, wood, trash 4-inch I.D. PVC) 10-20 sand Loose, wet to moist, dark brown, filter pack 418.1 TOX gravelly silty fine SAND, some 5-2 9 2 charred wood 10 Loose, wel, black, fine SAND, some 418.1 silt, trace debris (plastic, wood) 5-3. 6 150 TOX Helals Screen 8240 (4-inch I.D. PVC with 0.010-inch slots) Very soft, wel, grey brown, sandy 5-4. SILT, some wood (twigs and 1 5 branches) 20 Loose, wet, black, fine SAND, some wood (twigs and branches) trace silt 5-5 5 Threaded end cap 25 Bottom of boring at 24.5 feet 30 LEGEND RITTENHOUSE-ZEMAN & 2-inch 0.D. Chemical analysis ASSOCIATES, INC. split-spoon sample (EPA method shown) Geotechnical & Environmental Consultants 1400 140th Ave NE Bellevue, Washington 98005

PROJECT South Park Detention Project W.O. W-7490-1 BORING NO. B-9 (feel) SOIL DESCRIPTION STANDARD PENETRATION RESISTANCE Approximate ground Blows per fool surface elevation: Loose, moist, grayish brown, sandy SILT (Cement waste) 5-1 3 Loose, moist, black silty fine sand with trace debris (brick particulate) 5 Medium dense, moist, black, silty fine SAND with some debris (glass 418.1 and brick, Fill) 8010 5-2 54 8020 TOX 1311 Blowcounts may be overstated - 10 ATD Loose, wet, dark gray to black, fine SAND, trace silt 5-3 45 418.1 TOX 15 Loose, wet, dark gray, very fine SAND with some silt 5-4 Boring terminated at approximately 20 19.0 feet 25 30 30 LEGEND MOISTURE CONTENT Plastic limit Natural Liquid limit Groundwater level at time of drilling 2-inch OD split-spoon sample RZA - AGRA Engineering & Environmental Services EPA Analysis Method Shown 11335 NE 122nd Way, Suite 100 Kirkland, Washington 98034-6918 Drilling started: 20 August 1991 Drilling completed: 20 August 1991 Logged by: 65

11/14

**RB-09** 

SOIL DESCRIPTION Approximate ground surface elevation:	SAMPLE	SAMPLE	(mdd)	GROUND	STANDARD PENETRATION RESISTANCE  Blows per foot  10 20 30 40 50	TESTING
Moist, dark brown, silty fine SAND (Topsoil)  Very loose, dry, light gray, silty, very-fine SAND (Cernent waste)		5-1	2			
Medium dense, moist, dark gray silly fine to medium SAND with trace of gravel and scattered brick debris (Fill)		5-2	0			418.1 8010 8020 70X 1311
Loose, wet, dark gray to black, fine SAND, trace sitt		S-3	AID	,		418.1 10X
Loose, wet, black, fine to very fine SAND with trace of interbedded sandy silt		5-4	0			
Boring terminated at approximately_ 19.0 feet						
LEGEND		dunton			0 10 20 30 40  MOISTURE CONTENT  Plastic limit Natural Liquid limit	50
2-inch OD split-spoon sample  EPA Analysis Method Shown	at tim	dwaler e of dr	illing		RZA - AGRA Engineering & Environmental Services 11335 NE 122nd Way, Suite 100	



AKA - RB-11

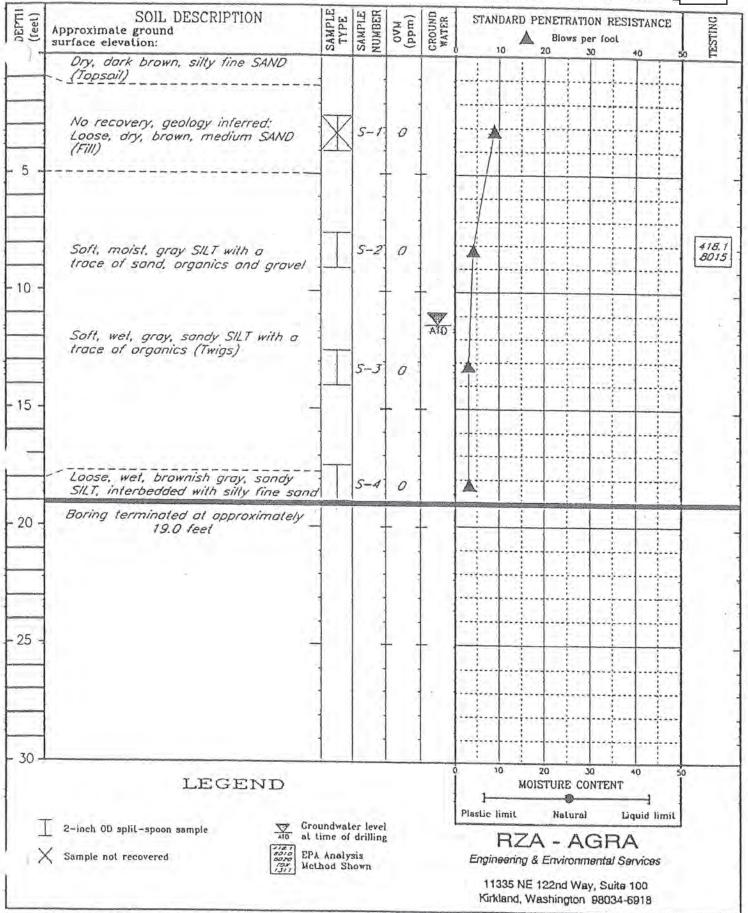
PROJECT South Park Detention Project W.O. W-7490-1 BORING NO. B-11

SAMPLE (feet) GROUND SOIL DESCRIPTION STANDARD PENETRATION RESISTANCE Approximate ground Blows per foot surface elevation: 2 inches osphall Loose, dry, brown, medium SAND 5-17 0 1311 with trace gravel (Fill) Loose, dry, gray, fine to very fine, sandy SILT 5 5-2 Stiff, moist, gray-red mottled, 0 sandy SILT -10 Medium dense, wet, dark grey, fine SAND, trace silt 5-3 0 Loose, moist, grayish-brown, medium to fine SAND with a trace - 15 of silt Loose, moist, gray, fine to very fine, 5-4 0 silty SAND Boring terminated at approximately 20 19.0 feet 25 30 LEGEND MOISTURE CONTENT Plastic limit Natural Liquid limit Croundwater level at time of drilling 2-inch OD split-spoon sample RZA - AGRA Engineering & Environmental Services EPA Analysis Method Shown

11335 NE 122nd Way, Suite 100 Kirkland, Washington 98034-6918

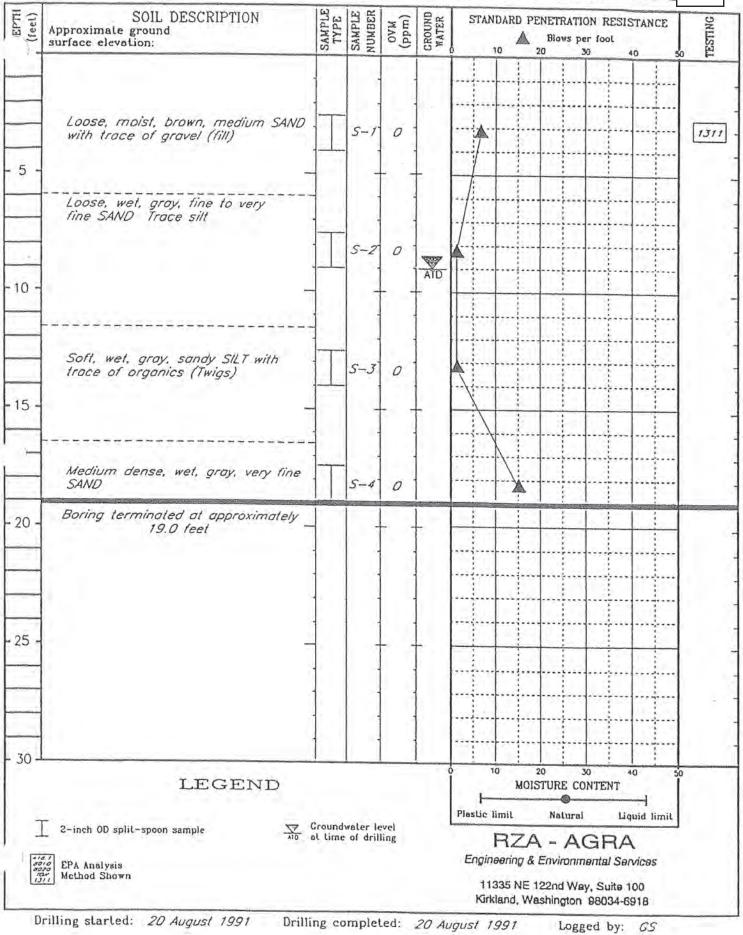
RB-12

PROJECT South Park Detention Project W.O. W-7490-1 BORING NO. B-12



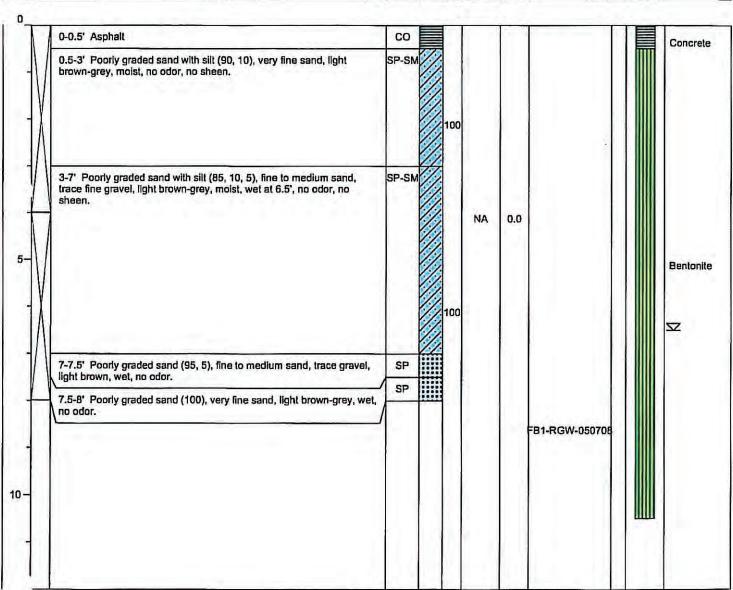
**RB-13** 

PROJECT South Park Detention Project W.O. W-7490-1 BORING NO.



**Historical Reconnaissance Groundwater Samples** 





Ground Surface Elevation (ft): Monument Type: NA Filter Pack: Top of Casing Elevation (ft): Casing Diameter (inches): NA Surface Seal: Concrete Screen Slot Size (inches): NA **Boring Abandonment:** Screened Interval (ft bgs): NA Annular Seal: NA Surveyed Location: X: NA

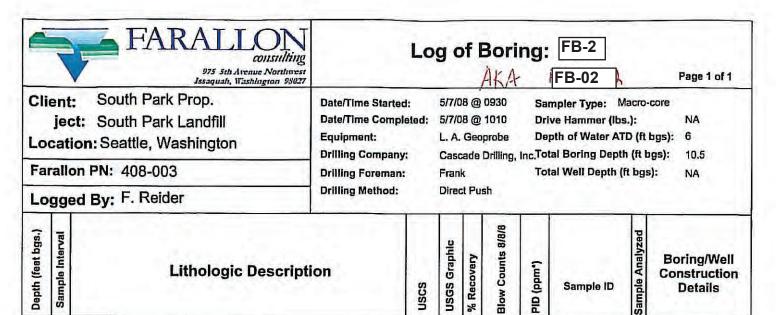
**Well Construction Information** 

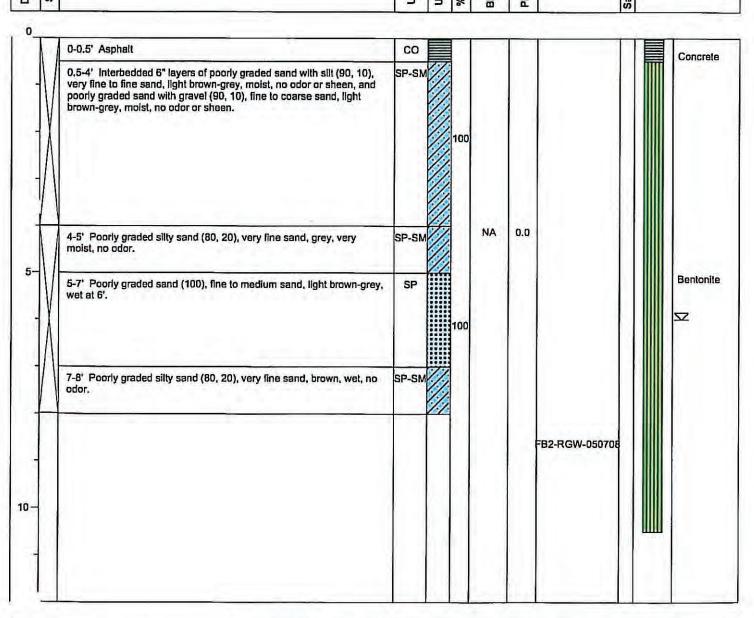
NA

NA

Y: NA

Bentonite





Monument Type: NA

Screened Interval (ft bgs):

Casing Diameter (inches): NA Screen Slot Size (inches): NA

NA

**Well Construction Information** 

Filter Pack:

Annular Seal: NA

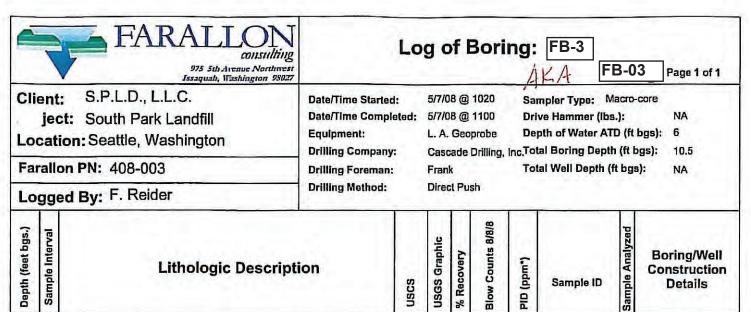
Surface Seal: Concrete

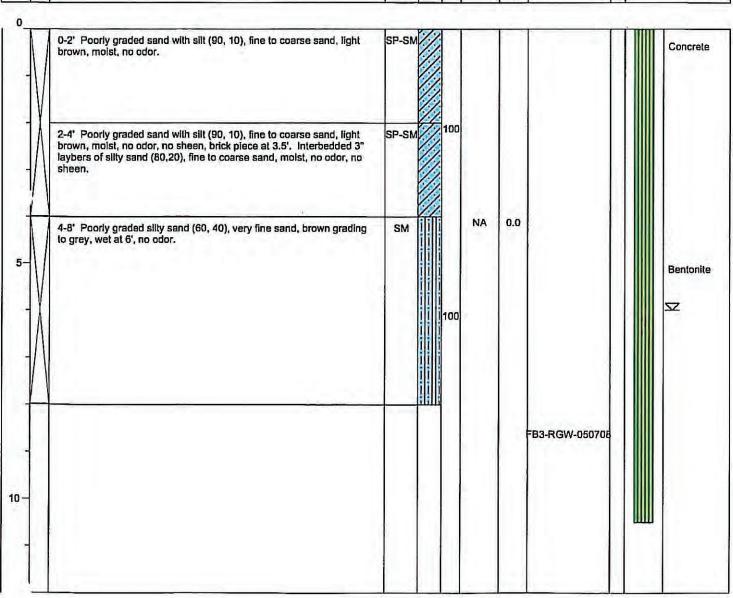
**Boring Abandonment:** 

Top of Casing Elevation (ft): NA Bentonite

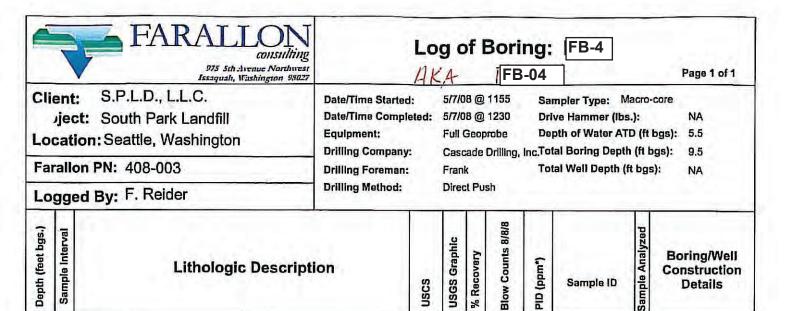
Surveyed Location: X: NA

Ground Surface Elevation (ft):





**Well Construction Information** Ground Surface Elevation (ft): Monument Type: NA Filter Pack: Casing Diameter (inches): NA Top of Casing Elevation (ft): NA Surface Seal: NA Screen Slot Size (inches): NA **Boring Abandonment:** Bentonite Screened Interval (ft bgs): Surveyed Location: X: NA Y: NA NA Annular Seal: NA



uscs

11 15	0-0.5' Asphalt.	co					Concret
	0.5-3.8' Poorly graded sand (95, 5), fine to medium sand, trace silt, moist, no odor, large gravel piece at 3'.	SP	100				
	3.8-5' Poorly graded sand (95, 5), very fine sand, trace silt, grey, moist, no odor, no sheen.	SP		NA	0.0		
	5-8' Poorly graded sand (95, 5), very fine sand, trace sllt, grey grades to light brown, moist, no odor, no sheen.	SP	100			FB4-RGW-050708	Bentonit

Monument Type: NA Casing Diameter (inches): NA Screen Slot Size (inches): NA Screened Interval (ft bgs): NA **Well Construction Information** 

NA Filter Pack:

Annular Seal: NA

Surface Seal: Concrete

Surveyed Location: X: NA

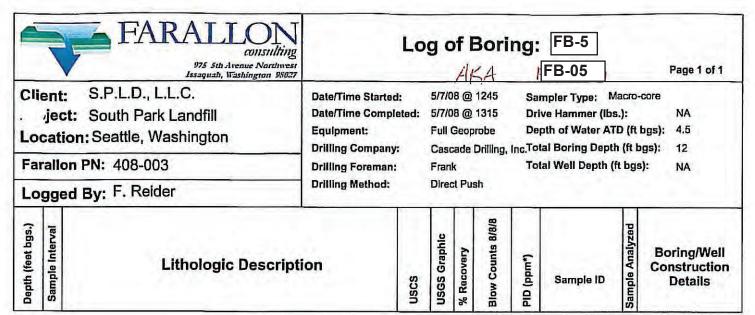
Ground Surface Elevation (ft): NA Top of Casing Elevation (ft): NA

Sample ID

**Details** 

**Boring Abandonment:** 

Bentonite Y: NA



0.5-4' Poorly graded sand (95, 5), fine to coarse sand, trace slit, medium brown, moist, no odor, no sheen, slit nodule inclusions.  100  4-6' Poorly graded sand (90, 5, 5), fine to coarse sand, trace gravel, trace slit, medium brown, wet at 4.5', no odor, no sheen, silt nodule inclusions.	1	0-0.5' Asphalt.	CO					Concret
trace silt, medium brown, wet at 4.5', no odor, no sheen, silt nodule Inclusions.    G-8' Poorty graded silty sand (65, 35), very fine sand, grey, wet, no   SM	$\bigvee$	0.5-4' Poorly graded sand (95, 5), fine to coarse sand, trace slit, medium brown, moist, no odor, no sheen, silt nodule inclusions.						Goldon
ALL 0-0 Proofly graded sitty sand (05, 35), very line sand, drey, wet, no   SM		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		SZ Bentonil
		6-8' Poorly graded silty sand (65, 35), very fine sand, grey, wet, no odor.	SM	100				

Monument Type: NA

Casing Dlameter (inches): NA Screen Slot Size (inches): NA

Screened Interval (ft bgs):

NA

Filter Pack: NA

Annular Seal: NA

. .

Surface Seal: Concrete

**Well Construction Information** 

Boring Abandonment:

Top of Casing Elevation (ft):

Ground Surface Elevation (ft):

NA Bentonite

Surveyed Location: X: NA



Log of Boring: FB-6

Frank

FB-06

Page 1 of 1

S.P.L.D., L.L.C. Client:

ject: 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 Sampler Type: Macro-core

Drive Hammer (lbs.):

NA

**Equipment: Drilling Company:** 

Drilling Foreman:

Full Geoprobe

Depth of Water ATD (ft bgs): 8

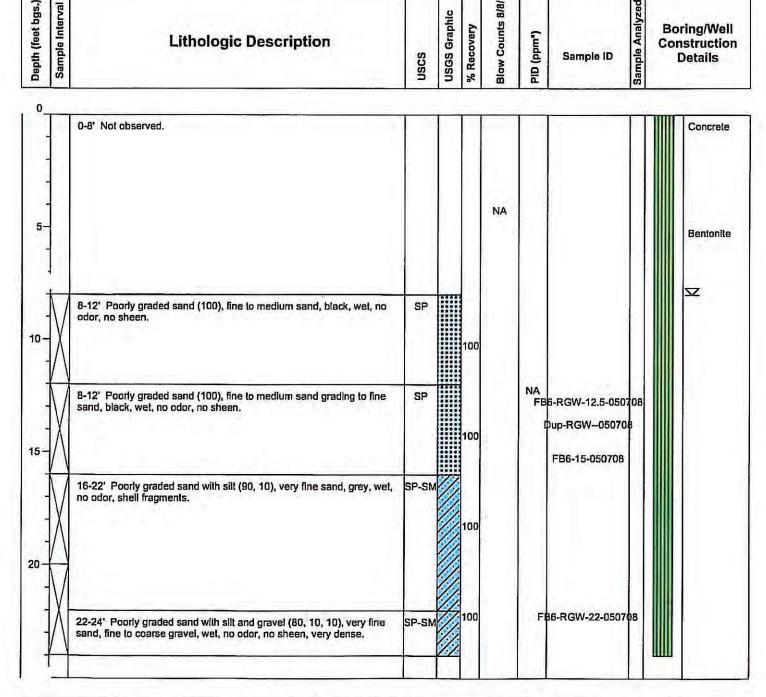
Cascade Drilling, Inc. Total Boring Depth (ft bgs):

24 Total Well Depth (ft bgs):

**Drilling Method:** 

**Direct Push** 

Blow Counts 8/8/8 Sample Analyzed **USGS Graphic** Boring/Well (bbm,) **Lithologic Description** Construction Sample ID Details



Well Construction Information Ground Surface Elevation (ft): Monument Type: NA Filter Pack: Casing Diameter (inches): NA Top of Casing Elevation (ft): NA Surface Seal: NA Screen Slot Size (inches): NA **Boring Abandonment:** Bentonite Screened Interval (ft bgs): Surveyed Location: X: NA Annular Seal: NA Y: NA NA

**Historical West Ditch Piezometers** 



## Log of Boring: PZ-1

Page 1 of 1

South Park Property r . oject: South Park Landfill

Location: Seattle, WA

Farallon PN: 408-002

Depth (feet bgs.) Sample Interval

Logged By: Ken Scott

Date/Time Started:

Date/Time Completed:

Equipment:

**Drilling Company:** 

**Drilling Foreman: Drilling Method:** 

12/15/2008 12:55

12/15/2008 13:30 Geoprobe

Cascade Drilling **Curtis Askew** 

Direct-push

Sampler Type: NA

Drive Hammer (lbs.): Depth of Water ATD (ft bgs):

NA 7.9' bgs

Total Boring Depth (ft bgs): 15' bgs

Total Well Depth (ft bgs):

15' bgs

Blow Counts 8/8/8 Sample Analyzed **USGS Graphic** Boring/Well % Recovery (bbm\*) **Lithologic Description** Construction USCS Sample ID **Details** 

2"-1.2": Organic, SILT with sand, trace gravel (75% silt, 20% sand, 5% gravel), fine sand and gravel, dark-brown, moist, no odor or sheen.	OL I	441	-1				1 1 8	cap
Observed root-rhizomes from 0 to 10" bgs.	ML							The same of the same
1.2-4.5': Sandy SILT (60% silt, 40% sand), fine sand, light-brown, molst, no odor or sheen.		1	00	N/A	0.0	N/A	NS	
4.5-9.5': SILT, minor sand (90% silt, 10% sand), fine sand, gray, moist to wet, decomposition-like odor, no sheen.	ML							Sandpack
Observed water at 7.9' bgs.								
		1	00	N/A	0.0	N/A	NS	Initial water
9.5'-15.0': Silty SAND (65% sand, 35% silt), fine sand, dark-brown, wet, no odor or sheen.	SM							
							i i i i i i i i i i i i i i i i i i i	Screen
		1	00	N/A	0.0	N/A	NS	
	molst, no odor or sheen.  4.5-9.5': SILT, minor sand (90% silt, 10% sand), fine sand, gray, moist to wet, decomposition-like odor, no sheen.  Observed water at 7.9' bgs.	ML  4.5-9.5': SILT, minor sand (90% silt, 10% sand), fine sand, gray, moist to wet, decomposition-like odor, no sheen.  Observed water at 7.9' bgs.	ML decomposition-like odor, no sheen.  Observed water at 7.9' bgs.  9.5'-15.0': Silty SAND (65% sand, 35% silt), fine sand, dark-brown, wet, no odor or sheen.	4.5-9.5': SILT, minor sand (90% silt, 10% send), fine sand, gray, moist to wet, decomposition-like odor, no sheen.  Observed water at 7.9' bgs.  9.5'-15.0': Silty SAND (65% sand, 35% silt), fine sand, dark-brown, wet, no odor or sheen.	ML  4.5-9.5': SILT, minor sand (90% silt, 10% send), fine sand, gray, moist ML to wet, decomposition-like odor, no sheen.  Observed water at 7.9' bgs.  100 N/A  9.5'-15.0': Silty SAND (65% sand, 35% silt), fine sand, dark-brown, wet, no odor or sheen.	ML  4.5-9.5': SILT, minor sand (90% silt, 10% send), fine sand, gray, moist blowet, decomposition-like odor, no sheen.  Observed water at 7.9' bgs.  100 N/A 0.0  9.5'-15.0': Silty SAND (65% sand, 35% silt), fine sand, dark-brown, wet, no odor or sheen.	ML  4.5-9.5'; SiLT, minor sand (90% silt, 10% send), fine sand, gray, moist lowet, decomposition-like odor, no sheen.  Observed water at 7.9' bgs.  100 N/A 0.0 N/A  9.5'-15.0'; Silty SAND (65% sand, 35% silt), fine sand, dark-brown, wet, no odor or sheen.	4.5-9.5': SILT, minor sand (90% silt, 10% sand), fine sand, gray, moist ML  Observed water at 7.9' bgs.  Discrete water at 7.9' bgs.  9.5-15.0': Silty SAND (65% sand, 35% silt), fine sand, dark-brown, wet, no odor or sheen.

Monument Type: Riser

Screened Interval (ft bgs):

Casing Diameter (inches): Screen Slot Size (inches):

1-inch 0.010

3' to 13' bgs

**Well Construction Information** 

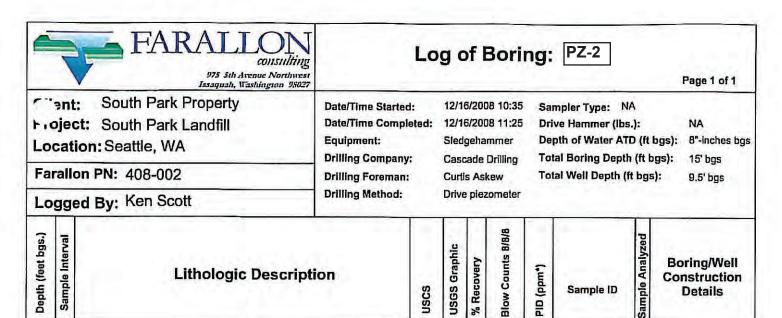
Filter Pack:

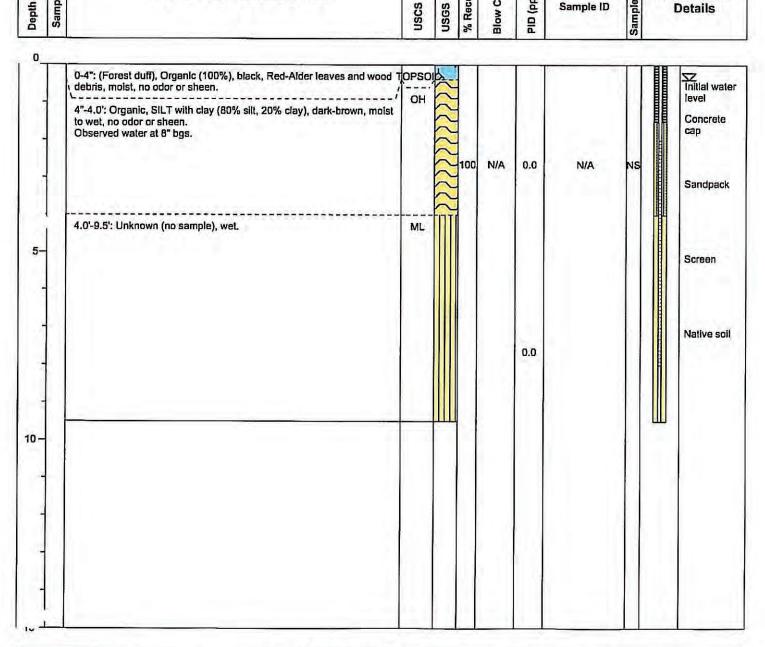
Surface Seal: Concrete Annular Seal: NA

Ground Surface Elevation (ft): Top of Casing Elevation (ft):

NA NA N/A

**Boring Abandonment:** Surveyed Location: X: NA





Monument Type: Riser

Screened Interval (ft bgs):

Casing Diameter (Inches): 1-inch Screen Slot Size (Inches): 0.010 .

2' to 8' bgs

Filter Pack:

Annular Seal: NA

Surface Seal: Concrete

**Well Construction Information** 

Boring Abandonment:

Ground Surface Elevation (ft): NA Top of Casing Elevation (ft): NA

NA N/A

Surveyed Location: X: NA



## Log of Boring: PZ-3

Page 1 of 2

South Park Property r .oject: South Park Landfill

Location: Seattle, WA

Farallon PN: 408-002

Logged By: Ken Scott

12/16/2008 12:45 Date/Time Started:

Date/Time Completed: 12/16/2008 14:15

Equipment:

**Drilling Company:** 

**Drilling Foreman: Drilling Method:** 

Geoprobe

Cascade Drilling Curlis Askew

Direct-push

Sampler Type: NA

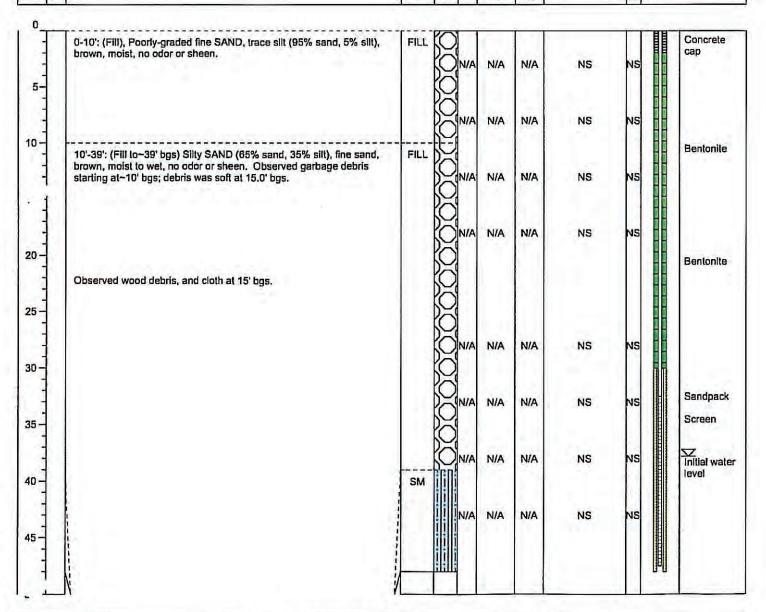
Drive Hammer (lbs.): NA Depth of Water ATD (ft bgs): 37.8' bgs

48.0' bgs

Total Well Depth (ft bgs): 47.5' bgs

Total Boring Depth (ft bgs):

Blow Counts 8/8/8 Sample Analyzed Depth (feet bgs.) Sample Interval **USGS Graphic** Boring/Well Recovery (bbm.) Lithologic Description Construction Sample ID USCS **Details** 



Monument Type: Riser

Screened interval (ft bgs):

Casing Diameter (inches): Screen Slot Size (inches):

1-inch 0.010

32.5' to 47.5' bgs

Filter Pack:

Surface Seal: Concrete

Annular Seal: NA

**Well Construction Information** 

Ground Surface Elevation (ft):

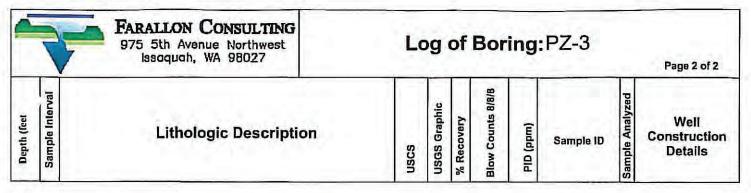
Top of Casing Elevation (ft):

NA NA.

N/A

**Boring Abandonment:** 

Surveyed Location: X: NA



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** Ground Surface Elevation (ft): NA Monument Type: Riser Filter Pack: Casing Diameter (inches): 1-inch Top of Casing Elevation (ft): NA Surface Seal: Concrete Screen Slot Size (inches): 0.010 **Boring Abandonment:** N/A Screened Interval (ft bgs): Annular Seal: NA Surveyed Location: X: NA Y: NA 32.5' to 47.5' bgs

## **Historical RETS Borings**

ſ		OF BORNE	IED C	211112	TVAN	AND	714		PROJECT HAME	METRO ETS-	METRO.		ing Ma. 7-2625	
ŀ		SKETCH	IER S.	2000	YAN	ANU	714		DRILLING METHOD	UOLLOUG				
	2 20					XFE	NCE							
	5.	SULL	NAVI			7		1	CALES INC. MCTIM	standari	PENETRAT	ION TE	ST	
				STR	EET SI	CN O	1	1		. SAFETY HA				S
						125		1			1.1.01		START	FINISH
				7-26	25	9	55.	1	WATER LEVEL	8.31	11.8'		1530	1630
				F	lous	5 6	1	I.	DATE	2-17-86	2-17-86		DATE	DATE
	DATUM	SURFA	CE			ELEVA	ON 1	3'	CASING DEPTH				2-17-82	2-17-80
	Salepi C		INCHES INCHES DRIVEH	IIN K	1	168	901	SURFACE CON	GRA:	SS COVER				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SAMPLE DEPTH	6 INCHES DRING	CII 4 HIN	DEPTH IN FEET	PICZONETER	GRAPHIC LOG	,}	<u>Nu unavaj</u>	lable				
	1			CI CI		-	3	CLASSIFICATI	OH	DESCR	PTION			
	1		1/		07		24		FIL	2		,		
	/		-Y	/			00	SAND -		ine to coar	se: some	fine t	0	
	//		/						coarse q					
S		/	1							(35000000000000000000000000000000000000		101-10-10-10-10-10-10-10-10-10-10-10-10-		
٦	1/1	.5/2	1 18	1				SILT -	gray; la	ninated; tr	ace of pl	ant de	bris	1540
DRILLER	SPT	4.01.	15/1	6	-									
DRIL			1								:			- 1
	2/	5.0/1	1 18		5-								22.1	
	SPT	16.5	///	18	- 3			SILT -	gray, po	orly lamina or metal; )	ited; abur	dant s	mall b	its_
	/		/						wood	or metal,	uscy scar	113, 11	ODUD.,	1545
	1												1	
	3	20/2	/ 18	<del>.   -  </del>	-		liii	INTERR	FOOED STI	T AND SAND	- dark or	av: fi	ine: pl	ant
	SPT	19.0	5/1/	12					debris;	rusty wood	debris? 1	aminat	ed; we	t 1555
	/					Ц								
	4	0.0/3	/ 18		10	Н				-10-00-10-10-10-10-10-10-10-10-10-10-10-		, , , , , , , , , , , , , , , , , , , ,		
	SPT	11.5	1/5/	18	10.			SILT -	gray; la	minated; to	op 6 inche	5	7 3	1605
E.	/		1		-			SANU -	trace n	y, fine to ant debris	medium; p	stair	ıamına ı: wet	ted;
j	1		-/.	$\rightarrow$					or add pro	and debi is	4,10 1030)			
(D 87	K	/	/		4	무		CAND	1-1			i e e e	Tamina	+-4.
CHKD	SPT	14.0	13 /	18			1::	SAND -	volcanic	y, fine to and quart:	megium: p grains:	fresh	grass	and
9	7		7117						silt in	middle of	sample			161
7-86	K.	(	,/			H	16.			water the my				
2-1	SPT	15.0	11 25 18	18	15			SAND -	as above	; more gras	ss and sil	t		163
1						12.11								
DATE	1		_/							escue armi				
	/		/			H			41					
	7/	17.5/ 9	12/18			2		SAND -	as above	: trace of	silt lam	ination	ns	163
	SPT	19.0	17/4/	18		2				of all the state of the state o	and the second s			
	1/	/			-		18.	FND O	F HOLE - 1	otal donth	13 5 fee	+ meas	ured	
			1/				1	LIIO O	I TIUEL - I	uger: hole	10.0 100	C HICUS	urca	

		N OF BOR		S. S	ULLI	VAN	ST.			PROJECT HAME	METRO	URS/ME	TRO		2700	
	LOCATI	ON SKETC	Н	303330000000	51	REH		1/4	WAY WAY	DRILLING METHOD:			AUGER			
	-	7-2	700	37	2000	VE A	TORA			SAMPLING METHO		DARD PE		***************************************	A STANDARD	
	-5.5	ULLIVA	۰.	ST	1	/		*	1	140 LB.	SAFEI	Y HAMME	R DROP	PED 30	INCHE	FINISH
FE				.,,	STREE	F 511	e N	1		WATER LEVEL	8.01	9.2' 0934	0942	9.8' 0957	0830	1010
	DATUM	SUR	FACE				ELEVA	NOM.	141	CASING DEPTH	2-18-86	1-18-86	2-18-86		2-18-86	
	SAMPLE SAMPLE			- E	3/	100			SURFACE CON	GRAV	EL	l				
- Constitution	SAMPLE	SAMPLE	BLOWS PER	INCHES DRIVEN INCHES RECOVERED	CH <sub>4</sub>	DEPTH IN FEET	PIEZOMETEN	GRAPHIC LOG	CLASSIFICATI	HNu UNAVAI		DESCRIPTION				
	/					0 т									Tritters (page	2017/00-2017
	4						+			NO F	ILL					
	/		2 /		enter attended		1									
DARLER JIM	SPT	3.5	15/	18/4		1			SAND -	gray fine	· come	cil+.	traco	of n3-	n+	
	/	/	, 0	1			1		- J.1(10) -	debris	1 SOME	31163	riace (	n htg	14	092
DANLER	/		1				1						min territor	a) (100)	- Toppen	× ***
DA	/						1	111								
	2/	4.5	2/2/	18/12		5 -			SANDY	SILT - gra debris; t	y, fine	e; lami	nated;	plant		000
	SPT	7		1		ľ				deniis, c	ace C.	idy				092
	3/	/	L/	18/			7						0 1 2 0			
	SPT	8.5	17/12	//				Ti	INTERB	DDED SILT	AND SA	ND - q	rav wit	ch rust	v	- <del> </del>
	/									lenses and	speci	cles; f	ine; la	minate	ed;	
	1						- VI	in		plant deb	ris					093
	4						1/184	2 11								
1	SPT	9.5/	10/6	18		10-		iii	THIEKR	EDDED SAND medium; la	AND SI	LTY SAI	<del>VD - da</del>	irk gra	y, fil	ne to
	/									rusty col	or; wet		30 01	·	(40) 13	094
H	5/	12.0	6/	18				110								
D BY	SPT	/	1/13	1 / 1					SAND -	dark gray	with r	usty s	pecks,	fine t	o med	ium.
CHKD	/			/			-			volcanic,	quartz	and 1	ithic c	rains		100
9	1	/			-			1:				*				
2-18-86	K	14.5	u /	18/					CANO							
2-	SPT	1/1	18/12	1 /		15-	Š	100	SAIYU -	as above			***************************************			100
DATE	/			/												***
à	1		1 F										Jun 100 Miles			War.
	1/	17.5	4/10/	18					SAND -	as above						101
	SP	/19.0	10/10	18					ENI	OF HOLE.	Tot-1	don+L	15 7 6		SEMLES	
	/			/					ENL	OF HOLE: inside auc	er; wa	ter lev	15./ t /el rea	eet me dinas	<u>asurec</u> taken	at.
	/	1/		1		20				0934 and (break; hol	1942 we	re take	en duri	ng one	drill	ina

	-	OF BOI	200	/UNT	TED S	DHED	FG	ORA	11.1	JOS NO. 854		S/METRO S-7	80RING NO.	
Ì		M SKET		LONT	7	rnck	/	LUBA	16/	DRILLING METHO		STEM AUGER	1 1-2100	
			7-	2800	<b>9</b>	* *			RG INAL WAY	,		D PENETRATION HAMMER DROF		CHES
					7	المله	1			WATER LEVEL	4.61	4.51	START THE	FINISH
		FENC	E	7-2	750	27	1			THE	1607	1612	1440	162
	DATUM	SURF	ACE				ELEVA	non_	14'	CASING DEPTH	3-11-86	3-11-86	3-11-8	63-11-
-	SAMPLE	7 8	ren FCS	INCHES DROVER	H.	191	CTER	807.0	SURFACE C	GKAY		SPARSE GRASS	s, ROOTS	
	TTPE	SAMPLE DEPTH	BLOWS PER	INCHES DO	75	DEPTH IN FEET	PIEZOMETER	BRAPHIC LOS		INu BACKGRO				
	/ 3	-/		==	0				CLASSIFICA	TION	DESC	PIPTION		
		_		//		0 T	4	N.	SAND,	FILL GRAVEL, CO	BBLE. BRIC	K		
and	/_,	_		/							7 2114			
		/		/				hin				AND LONG MANAGEMENT		
	1	2.5/	7/6/	18/	1.2/				SILT -	gray brow	m; trace f	ine sand; tr vaste; moist	ace wood;	150
DRM.LEM	SPT	14.0	/12	1			Jwi	Ш		חנטחפטופ	concrete A	vasce, motse		
۵	2)	5.0/	4/	18/	B		$\Box$	-1/				C. D. C. C. C. C. C. C. C. C. C. C. C. C. C.	-	
	SPT	16.5	15/6	/	/	5 1	JILO SEP		SAND A			n; interbedde		
	/			/						interlami fiber; ve		ne to medium	, wood	151
	/	/		/				177						
	3/	7.5/	2/4/	18/	8/				SILT -			ce fine sand		
	SPT	19.0	/10	/16	-/	1					<u>land bedde</u> very moist	ed: organic ( t	<u>debris alc</u>	na 151
	4/	10.0/	2/	18/	1.1			Ш						
-	SPT	11.5	12/11	/10	8/-	10 7			SAND .	- dark gray	, fine to	medium; qua	rtz and	¥ 100
	/	/		/						volcanic	lithic gra	ains; plant	debris; We	152
BY SU	1	/		/	1									
CHC	5/	12.5/	3/2	18/	B	1 1			SAND	- as above:	with sli	t rip-up cla	sts embedo	led;
- management	SPT	14.0	1/4	/18	1-			1		plant fil	per; wet		- Cum - Comment	153
-20	/	/	-	/							1000			
	SPT	16.5	13/8	18/	8/-	15 -			SAND	- dark grav	v, fine or	medium grai	ned; bedde	ed
DATE 3-1	1	/	1	/				1		in 6" bed	is; trace	plant fiber; ossible shel	quartz, I grains:	
۵	1	/		/			П			wet	., ., ., ,			154
	7/	125/	1/	118/	1.0/				SAND	- dark gra	v, fine to	medium		160
	SPT	19.0	12/1	3/5	10	-	H							in-com.
	4	/	-	/		20			END O	bentonit	otal depth e seal at ce with cu	16.7 feet i 5 feet; hole	nside aug backfill	er; ed

REZORI YARD (UNITED SPHERE GLOBAL	DOB NO. 8546   CLENT URS/METRO   BORING NO.   7-2800	
LOCATION SKETCH 30-5'- W.	RGINAL DRILLING METHOD: HOLLOW STEM AUGER	
7-2800 G	SAMPLING METHOD: STANDARD PENETRATION TEST	
4, 1	140 LB. SAFETY HAMMER DROPPED 30 INCHES	
\ *	START TIME	FINISH
6	↑ WATER LEVEL 6.8' 6.5' 6.5'	
7-2750	N 1 1411   1416   1418   1310	143
_ * * * * * * *	DATE 3-11-86 3-11-86 DATE	DATE
DATUM SURFACE ELEVATION 13	CASING DEPTH	3-11-5
	SAND, GRAVEL, SPARSE GRASS, ROOTS	
SAMPLE NO. STANFLE DEFTH OF PET	HNu BACKGROUND = 0.6 - 0.8 ("B")	
SAMPLE SAMPLES TYPING BE OF DE		
1 1 1 1 a	ASSIFICATION DESCRIPTION	
	FTIL	
	SAND - brown, fine to coarse; fine to coarse	
	gravel; cobbles; brick; concrete; wood	
KARATA H IST	The state of the s	
1 25 138 18 8	SAND AND GRAVEL - dark brown, fine to medium;	
SPT 40 8/6/-	fine; trace silt in tip; wood; probable	
	cement waste; moist	13
	NOTE: plastic tile in auger	
2 5.0 57 18 B - 5 SEAL	Sing to modium, quantz and la	thic
SPT 165 /10/18/-	SAND - dark gray, fine to medium; quartz and li- volcanic grains; abundant fine rootlets;	CITTO
		13
	yery moist	***
/     H'**   E		
3/7.5/4/18/8/	SAND - as above; no rootlets; trace of plant	
Set 9.0 7 18 -	debris; trace of shell fragments; wet;	
	slight organic odor	13
4/10.0/1/18/-/10		
SPT 11.5 21 18 - 10	SAND - dark gray, fine to medium; quartz, lithi	
	volcanic, shell grains	13
	SILT - brown; laminated; organic fibers along	
	bedding; slight organic odor	· ····································
C 125/2/18/27	SILT - brown; laminated; abundant wood, stems,	
5/12.5/2/9/18/B/-	plant fiber along bedding; very moist	13
SPT 14.0 /15/18/-		
b 15.9/9/ 18/8/		
	SAND - dark gray, fine; little silt at top;	
SPT 11.5 /7 8 -	laminated; plant fiber and wood along	1.0
	bedding; wet	13
Karan Karan	CAND as about	14
7/17.5 4/6/18/1.2/	SAND - as above	* 7
SPT 19.0 /7 6 -		
	END OF HOLE: Total depth 16.2 feet inside auge	er;
KXXXXX HII	bentonite seal at 5 feet; hole backfille	ed
204	with cuttings to surface	

		OF BO		(UNI	TED S	SPHER	RE G	LOB.	AL)	PROJECT MAME	METRO E	URS/METRO		-2844	
	-	M SKET		· ·		1		\w.	ARGINAL	DRILLING METHO	Committee of the Commit	W STEM AUGE		· · · · · · · · · · · · · · · · · · ·	
		7	-28	236	37'	X	ENC I	٤ /	WAY	SAMPUNG METH		DARD PENETR			HES
			7-21	244 (	20	· 51	*			WATER LEVEL	41	4		START THE	FWISH TME
ĺ		**	Trinks and activities	7-2	1	2.5'	1	*		DATE	1153 3-11-86	1158 3-11-8	6	1040	121 DATE
	SAMPLE SAMPLE	SURF	97, 17	2 / 4 C	#/		ELEVAT 5	100	12 SURFACE CO	PIUD,	WATER			3-11-86	3-11-2
- Andrews	SAN TYPE	SEPTH DEPTH	B INCHES	HCHES DRIVEN HICHES DRIVEN RECOVERED	CH A	DEPTH W FEET	PIEZOMETER	BRAPHIC LOS	CLASSIFICA			0.8 to 0.6	("B")		
	7					ОТ		:o::		FIL					
ana	$\mathbb{Z}$			/				0	SAND	AND GRAVEL rounded		, fine to c	oarse;		
	/	/	7/					0.	CAND	AND CDAVEL		fina to mo	dium. f	inai	
DARLER	SPT	4.0	19/1	18/5	1.6/		7	0	SAND	wood; tr	- gray, ace bric	fine to me k; moist; c	ement w	aste	110
Del	2	50/	7/	18/	1.0/		盏	1	1						
	SPT	165	11/10	1	/-	5-	SEA		SAND	and quar	tz grain	to medium; s; wood; tr	volcani ace she	c lith	
	/	/		/						fragment	s; wet				113
	3/	7.5/	5/5/	18/9	1.2/				SAND	- dark gra odor; we		plant fibe	rs; org	anic	112
	7			1	1-/0		1								
	1501	100/	3/2/2	18/	B/-	10			SILT	- gray; la	minated;	plant fibe	rs alli	gned	
S	/			/						with bea	aing; or	rganic odor		· · · · · · · · · · · · · · · · · · ·	117
CHATE BY	5/	0.5/	11/	18/	8/			e (projection de la constantion	STLT	- as above					113
1	SPI	14.0	1/2	/18					3.2	AN APYIS	A A A A A A A A A A A A A A A A A A A	- Destroyment (Control of Control			
3-11-86	6/	15.0/	2/1/	18/	B	15-	1	The second second							
DATE 3-	SPT	116.5	/3	/18	10	157	30/20		SILT	organic	laminae	; occasional ; plant fibe ly plastic;	ers alon	ig	114
0	7	/		/				-	END (	F HOLE: T	otal der	oth 14.6 fee placed at 5	t insid	le auge	
	/	/		/						backfill	ed to si	urface with	cutting	ļ\$	
	/	/		/											
	/	/		/		20-	Ц							-800	11910019

	LOCATION				······································					<sup>ЈОВ МО.</sup> 8546	CLUEHT	URS/M	ETRO		NE NO.	. <u>, 1</u>
	RAZ(			(UNI	TED S	SPHE	RĘ G	LOF	BAL)	PROJECT NAME	<u>METRO E</u>	TS-7		7.	-2883	
			<del></del>	2	*		1		ARGINAL VAY	DRILLING METHOD:	HOLLC	W STEM	AUGER			
			7-100	241] 3 (5	29'		/	` ~	777 ]							···· / ·····
			/ - 40 t	3 4		×				SAMPLING METHO	o: STAND	ARD PE	NETRATI	ON TES	T	
					37'			/	\				ER DROP			25
					I.	×	1								START	FINISH
				-	•	,				WATER LEVEL	21		2'		TIME	TIME
11				7	-2844	1	*		\ 1	TRACE	1010		1015		0830	1030
		cune	8 C T			1			\ \ \ 13'	CASING DEPTH	3-11-86		3-11-86		DATE 3-11-86	2.11-9
	4	SURF.		5 /	_ /		ELEVA	T	SURFACE CO	**************************************	-	חוד כי	DARCE O		77.00	3 // 8
	SAMPLE	SAMPLE	BLOWS PER & INCHES	MCHES Denven	CH <sub>4</sub> HN <sub>4</sub>	DEPTH W FEET	PIEZOMETER	HAPPIC LOS		INU BACKGRO			PARSE G ("B")	RASS		
	/#E	SA M	BLOWS S IN	MER A	ED THO	20 10	EZ O	FAAPY		INU DACKUKU	JNU = C	.o PPM	( 6 )		<del></del>	
	/ 3			<u> </u>	/ ö		ļ	<u> </u>	CLASSIFICA	TION		DESCRIPTION				
						0 T	-		:	<u> </u>	TLL					
			<del>-</del>				1		SAND -	· light brow		ium to	coarse	: bric	k	
							WL	1.		mortar.co	oncrete	rubbl	9			
							\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	-117								
	1/2	.5/	13/_ ,	18/	1.4/		1010	,	SILT -	very ligh	t tan:	little	fine s	and: 1	ittle	· · · · · · · · · · · · · · · · · · ·
DRILLER BOB	SPT	40	15/15							fine to co	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
¥			,							waste						090
	12 X	5.0/	1/	10/	1.8		-									
	SPT		/2/	18/	/-	5			SILT -	as above;	wet: n	lant f	ihers:	wood:	orav	
				//						silty sand	at ti	p, pos:	sible c	ontact	; wet;	
							]		4	cement was	ste					0908
							55#		1							
	3	7.5/	8/	18/	1.4/			1	SAND -	dark gray	. fine	to med	ium: tr	ace fi	ne gra	vel:
	SPT	19.0	1/9		/-					trace sil						
				/	1					volcanic	lithic	and qua	artz gr	ains: v	wet	0910
	4 /	0.0/	5/	18/	1.6/		-	1::								
	SPT	11.5	18/5	1/14	/_	10		::	SAND -	as above;	wet	•				0920
				/	1			::	:							
콩									:							
\ <u>\</u>								hi	<del></del>							
CHECO	5/1	2.5/	2/	18/	5/	1			SILT .	· gray; lam	inated:	abunda	ant pla	nt fibe	ers	0940
1	SPT	14.0	/3	/18	10											<u> </u>
l <sub>Q</sub>				1/	1											
11-86	K	<u>/</u> 5.0/	17	18/	1.8/	-	Н								······································	
1) [[	SPT	16.5	//	18	1.0	15			SILT -	as above;	trace	shell :	fragmen	ts: s1:	iaht	
T T		$\overline{}$		/	1					organic o				× × × ×		0955
BY DATE					<u>  .                                   </u>											
		/					Н									
	7/1	7.5/	1/	18/	8	1			SILT .	gray with	dark c	ray or	ganic 1	aminat	ions:	
	SPT	19.0	2/2	/18	10					laminated	; plant	fiber	s and s	nell		
				/			*	Щ	I END OF	fragments	J	<u>.</u> 17	G-22			1005
	K	-		Y-	+	ا	Н		END O	HOLE: To bentonite			feet in:			
						20	4		-	backfille	i to su	rface v	with cu	ttings	,	

		NITO		on			2-41-00	7,11	PROJECT NAME	6 CLEMI METRO	URS/ME	ETRO		7-2950	
		M SKET	CH TAI	NO .	¥			PRGINAL	DRILLING METHOX		W STEM	AUGER	1.	7-2950	
			7-30	2000			1 ,	JAY							
				7	" Y	ENC	: /					and the same of th			
				A		X		1	SAMPLING METH			PENETRA			
				A A A S.	7 30	1		1	140 LB.	SAFETY	HAMMER	R DROPPE	D 30	INCHES	FINISH
				7-2950	O K	,	/	1	WATER LEVEL	8.01	13.7	13.7'		TiM€	TIME
	يت		,	· ·			1	. 1	TME	1140	1228	1245		1045	130
	,							W	DATE		******	2-20-80		DATE	DATE
	DATUM	SUR	FACE		,	ELEVA	TON	18'	CASING DEPTH					2-20.86	2-20-
	SAMPLE	w <sub>w</sub>	55	FINE DANKEN		¥2.5	100	SURFACE CO	3"	CRUSHED	Commercial Strategic Property and Administration of the Parks				
	2 A 2	SAMPLE DEPTH	BLOWS PER	HINCHES OF HECOVERED	DEPTH IN FEET	PIEZOMETER	BAAPHIC LOG		HNu UNAV	AILABLE		- Lor			
	1		8	CHI			3	CLASSIFICAT	ION		DESCRIPTION			- The Windshill	
		/			0 T	-	111	-	-						
		/							FI	<u>LL</u>		-0.0			
								SILT -	· light gr	ay; cem	ent was	te	ì		
3	/	/													
	-	25/	6/	18				SILT -	· light ar	av av L	אסטיס ב	WAR -4-		******	án-
	SPT	4.0	119/4	18				JILI -	gravel;	cement '	waste	iron sta	1113 1	race i	10
DRILLER	-/	/					1						19		
0	4	/	U /	<del>/</del>		-					UN VANIOUS.				
	505	5.0	19/	18	5 -			SUT -	as above	: cemen	t waste	3			
	/	/								, comen	t was to				to the letter
ч	4	/_						1				red out	of ho	ole;	
	/	/			1	4			pro	bable 1	og.			-	
	3/	7.5/	2/	18				SILT -	as above	: cemen	t waste	: sampl	er w	et	114
	SPT	19.0	12/	18		į									
	/	/						-	-		**************************************				
	4/	100/	1/	18					**						* 1
	SPT	11.5	13/3	18	10			SILT -	as above	; trace	fine o	gravel;	trace	wood	
5	/	/				4			debris;	trace o	firon	stainin	9		115
	-	1	_	1	- 1							-			n kamara a
. B.	/	/													
CHKD	5/	12.5	5/10	18		3	ЩЩ		as above			Files and the		Taba 1	
	SH	/14.0	/	8 18	- 1	교		SAND -	dark gra rootlets						
9	/	/				177			Tootlets	, voica	iic, qu	iai CZ,	I LIII C	, yraili	3 141
99-07-7	6/	15.0/	3/2	18	15-										
7	SPT	16.5	1/2	18	- 1	4	73	SAND -	as above			o contraction of the contraction			121
DATE	/	/													<del>,</del>
	/	/													
	7/	17.5/	12/	10				CAND	ne sha:-	. + 1	211				
	SPT	1	1/2/	18		42		SAND -	as above	LOD I	4	*			
	/	1/	1			Ř		SILT -	gray; la	ninated	; abund	lant pla	nt de	bris	121
	/	/						1	parallel	and tra	ansvers	e beddi	ng; c	rqanic	odor
	1/	1/			20-		1	ENU OF	HOLE - to backfill	otal de	oth 14.	9' insi	de au	ger:	

	LOCATION	MAN.		YARD						PROJECT NAME	6 CLENT L	JRS/METR 5-7	0	7-30	000
	LOCATIO	N SKET			1	×	1		TARGINA WAY	DRILLING METHO	. HOLLOW	STEM AU	GER		11.
			7-3	3000	O L	(3')		1			SAFETY W			TEST 30 INCHES	•
					,	1	1	ENC	E \	140 LD.	SAFEII NA	ATTITEK DK	UPPEU	START	FINISH
						0		1	1	WATER LEVEL	10'	1.1	31	TIME	THE
				7-2	(450			1	T	TIME	0945	*****************	015	0845	1030
		-	- X	×			-	4	N	CATE	2-20-86	2-2	10-84	DATE	CATE
-	DATUM	S	URFA				ELEVATION	on 1	81	CASING DEPTH				2-20-8	16 2-20-8
	SAMPLE		* 5	INCHES DRIVEN RED	3/		18.8	801	SURFACE CON	3 MOITIO	INCH CRUS	HED ROCI	<		
	SAU SAU	SAMPLE	BLOWS PER 6 INCHES	INCHES DRIN PECOVERED	TINE A	DEPTH W FEET	PIEZOMETER	BRAPHIC LOG		HNu UNA	VAILABLE				
	AMPLE	5	9.0	MCHE COV	7 H		916	C.W.	CLASSIFICATI	ÓN	DE	SCRIPTION			
	1	1		1/		1				FILL					
		/				o I									
	/	/		/	1	-			SILT -	light gr	ay; cemen	it waste	Suc Sucrement		
DAILLER BD	1	-		1		-						TOO STATE OF THE S			CATALOGICAL
B		/		/	j	-									
	1/	2.5/	6/2	18/					SILT -	light gr	ay or bro	wn; trac	ce fir	e gravel:	
DAN, LER	SPT	14.0	7/2	12							od debris	; jron s	<u>staini</u>	ng; cemen	
DIRIL	/	/		//		-	1			waste				Mengaccinotes	090
	2/	5.0/	6/-	18/										-	
	SPT	/	15/	1/12		5			SILT -		ay, some	iron sta	aining	; trace	
		/								fine gra	vel	d			090
	K-		-			-	+							×.	×
	/	/									*************	(.)	-		
	3/	7.5/	3/	18/					SILT -	as above	; very mo	ist			091
	SPT	19.0	10/6	18											19166
	/	/		/								**************************************		J. Co. Commission	-
	4/	10.0/	3/	18/		1	1					*			
	SPT	/	13/1			10-			SILT -	as above	; wet; tr	ace glas	SS		094
K	/	/													
5	K.		-	//							- wone				
79	/	/		/				144			100000			100-100-100 (1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0	
CHAND	5/	12.5/	8/	18/			$\nabla$		SAND -	dark gra	y, fine t	o medium	n; tra	ce silt;	
	SPT		1/	5/18			문 등 기				, quartz	and lith	nic gr	ains;	100
86	1/	/		/		-	1015		-	massive;	wet	**************************************	- Vincing		100
2-20-86	6/	15.0/	6/	118/			+							ngain in	
2-7	SPI		17/	1/18		15		1	SAND -		; salty n	narine sr	nell;	trace	
į l	/	1	1					13.		plant de	bris	ague a comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la			100
DATE	6	/	101	100					CAMP	i a a i a b i m a		,		,	
	150	18.0	18	9 18					SAND -	as above	: COD 12	· ·			
	/	1	1	/				T	SILT -					nt fiber	
	/	/							A A		strong n				101
	1/	1/		/	. 7		4		END OF					easured i ace with	nside
	-	/	1-	1			-			cuttings		rried C	Suri	ace With	
	1/	/		/		20-			-	000011143			X-11-1	- Papagasa	

	1000	MANIT		ΔPO						PROJECT NAME	46 CLER		ETRO		7-305	<u>., 1</u> .,
	LOCATI	ON SKET	СН	AND		V.		1	VEST	DRILLING METH			AUGER		7-303	<u> </u>
	7	-31	00	0		1		1	MARGINA	4						
				1	52'	X			1	SAMPLING MET	MATS STAN	DADD DE	NETDAT	INN TES	T	
		7- 3	305		95	25	1				B. HAMM				*	
		181					7	+	1						START	FINISH
								1		TIME						
-				7-3	000	4		1	\ N	DATE					1000	143 DATE
	DATUM	SURF	ACE				ELEVA	TION	18'	CASING DEPTH					2-19-81	2-19-
	SAMPLE		N34	INCHES DRIVEN ERED	HIN.	z tu	ETER	100	SURFACE CO	3 11	NCH CRUS		K			
	Tel S	SAMPLE DEPTH	BLOWS PER	INCHES DRINGHES HECOVERED	7	DEPTH IN FEET	PIEZOMETER	SRAPHIC LOG		HNU UNA	VAILABLE					-15. m
	3	,	, <b>(a</b> )	\ \B	AH.				CLASSIFICAT	ION		DESCRIPTION				
	/	/		/		0 T		1111		F	ĮĮĮ.					
	/	1		/		F			D 71 =							
BILL	/	-		1		-	1		DILI -	· light gr	ray, cem	ent was	ce			
Щ	/							THE PERSON NAMED IN								
-	SPT	13.5	5/5	18					SILT .	light quo	ray or t	rown; t	race f	ine gra	avel	12
DRILLER	SPI	7.0	/ \	17						Cement	waste, t	iace pi	ant de	UI 13		
۵	2	(0)	3/	19/												
	SPT	5.0/	13/	18/		5			SILT .	as above	e; moist				-	12
	/	/		/												
	/	/		//					- Jan Awa-						ongo	
	/															
	3/	7.5	1/3	118			1					-				
	/	1		/	1		]						AND THE PROPERTY OF THE PROPER			
	4/	10.0/	2/	18/		+ +	1						,-			-
1	SPI	1	19	3 /18		10			SILT	- as abov	e; moist					12
S	/	/		/	1									-	-twi	
	1	/		1		1			1	······································		· · · · · · · · · · · · · · · · · · ·				
CD BY	4	120	27	/					67.7					(y-1000)		-
CHAD	SPI	12.5/	1/2	3 18/6			1	Ш	SILI	- as abov	е					
36	/	1	1	1	1		1		SAND	- dark gr				/olcani	С,	
2-19-86	1	/	+-	/	-	+ +	-			quartz	and lit	nic gra	ins			14
2-	/	/		/		15		TI			2,000		· · · · · · · · · · · · · · · · · · ·			
DATE	6/	15.5	2/2/	18/			1.0	and the same of th	SILT	- dark gr	ay: mas: t plant				re;	
3	181	/11.0	1	/ 18	1		4,500			organic		TIDEL (	and der	71 133		14
	/	/	-	/			7									.,,
	/	/						-  11	END C	F HOLE -	Total d	epth me	asured	at 17.	8 fee	t
	1	1/	1	/	1			and the same		inside	auger:	hole ba	ckfille	ed to s	urfac	
	K	/-	-	1				Sapara .		with cu	<u>ttings:</u> evels t	water a	added 1	to hole	, no	·
	1/	/		/		20									<u> </u>	0.27

1		OF BOR		D .							METRO ETS			14g HO. 7-3100	
1		N SKETC	-		¥			W.	MARGINAI NAT		: HOLLOW S				
	MANI	Tou <sup>†</sup> s		4	' CO'	FENC	E	1	\			Sample St. 1975 St. 1975		5050 	
				/	7 1	المنا			1	SAMPLING METH		D PENETRATIAMMER DROP			c
			7	-3100	, .	,	1		1	140 Lb	. SAILLI	MINICK DROP	FED 30	START	FINISH
							X		1	WATER LEVEL	111	11.3		TIME	TIME
1						0		+	<u>†</u>	ONE	1350	1400		1320	1430
	nerus (	SURFA	CF		7	3050	ELEVAT	DM .	18'	CASING DEPTH	2-18-86	2-18-80		2-18-86	2-15-8
1 1	SAMPLE			INCHES DRIVEN	HN			62	SURFACE CO	3 1	NCH CRUSHE	D ROCK			
	THE SH	SAMPLE DEPTH	BLOWS PER	INCHES DANS RECOVERED	=/_	DEPTH IN FEET	PIEZONETER	SRAPHIC LOG		HNu UNAV	AILABLE	1M76-1			
	1		2 0	ME CO	CH <sub>4</sub>		-	3	CLASSIFICAT	ION	DE 50	RIPTION			
		/1		/		O_	1			FILL					
	1			/			1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
7	/	1.0/	24/	18/	1				-						o-transaction
***************************************	SPT	3.5	119/8	18				9	SILT -	light gr	ay to brow	in, some ru	sty st	ain;	
				/				4		some fin	e gravel;	slightly n	noist;	cement	133
DRILLER	/			1				a		7,4000					
ō	4	/	1/	10	-			9	STIT	ND CRAVEL	- brown	rusty star	in. fin	a. tra	100
	2/ 5P1	4.5	72/4	18/		5-				of plant	stem; cen	ment waste		C, CIC	
	/			/					SILT -	·light gra	y; moist;	cement was	te		134
	3/	7.0/	2/	18/	1	1 1	1								7 11
	SM	185	12/	18					SILT -			noist; mass			135
	/	/		/						nomogene	ous, very	clean; cer	ient wa	ste	102
	/	/		1	1	1 1	1								
	4/	9.5/	2/	19/	+	-			SILT -	as above	; wet (sar	nd in bit,	contac	t);	
	SPT	/	16/	/18		10-	30			cement w	aste				140
SH	/	/		/				= :-							
	5/	12.0/	20/21/2	18	1		135								
CHKD BY	SPT	13.5	1/2	0/18		+ 1	4		- SAND -	- dark gra guartz a	y, fine to nd lithic	medium: v	/olcani	C	141
5	1	/		/								7			
98	/	1/		1/			H		:						
-18-86	1	//	1	1		15-					9		- Ambril		
2	4	/	17	/		1			A STATE OF THE STA	- as above		- miles of the second			
DATE	SP	155/	1/	18/19	8		de North	T		- dark gra	y; well la	aminated a		blocky	
	1	1/		1			Ť.		Ш	with abu	ndant plan	nt fiber a	t tip		142
	1	1	1	+	1				END OF	F HOLE: T	otal dept	14.1 fee	measu	red in	iside
	4			/		4	H			auger; h		illed to s	urface	with	·
	/	/		/			H	and the second		cuccings					
	V	V	1		-		$\Box$					******			

		OF BOY		RD, 5	TH.	s.				PROJECT NAME	CLENT METRO E	URS/ME TS-7	TRO	BOR	7-3150	<u>, 1 ., 1</u> D
	LOCATIO	N SKET	Эн .		¥			/w.	MARGINAL		The second second		AUGER		<b>-</b>	
			7-	3150 1111 N	-11	FEM	CE	1					**			
	12.6-1	C	Ť.		9.	1				SAMPLING METHOD						
	MAA	TTOU	516	N			1		1	140 LB.	SAFETY	HAMME	R DRUP	PED 30	START	FINISH
							1	<u> </u>	1	WATER LEVEL	11'		131		THATE	TIME
								1	T.	DATE	1200	1.1	1210		1100 DATE	1230
	DATUM	SURF	ACE				ELEVAT	ION	18'	CASHG DEPTH	7,000		11.00		2-18-86	2-18-8
	SAMPLE		£ 5	IHCHES DRIVEN ERED	IIN	+5	TER	207	SURFACE CON	3 11	CH CRUS	HED RO	CK			
	Saupri E TYPE	SAMPLE	BLOWS PER	INCHES DAN RECOVERED	=/4	DEPTH IN FEET	PIEZOMETER	PRAPHIC LOG		HNu UNAVA	ILABLE				21/22/11/20	
	/ 3		8 -	<b>1</b> ₹ ₹	CII 4		-		CLASSIFICAT	ON	O.	SCRIPTION	10.			
	/	/		/		0 T		П		FIL	L					
	1	/							SILT -	light gra	y; sliq	htly m	oist;	cement		
WID.							1			waste						
		/_							CTIT					* _ L		113
200	SPT	2.5	8/9/10	18					2111 -	very ligh	t gray;	massi	ve; mo	IST		113
DRILLER	7	/		1												
	2/	5.0/	4/	18/			-							- Community of the Comm	<u> </u>	
	SPT	/	14/4	18		5 7			SILT -	as above;	some f	ine gr	avel;	rusty	stains	;
	/	/		/						moist; po	ssibly	glacia	l orig	in		115
	7			1												
	/_		111	/					SIII -	as above;	DO ONS	vol. o	don 1s	ka can	ont.	
	SPT	7.5	16/10	18					3141	cement wa		ve1, 0	dor 11	NE COI	acric;	120
	/	/		1/										, printer		
	4/	100/	7/	18/			1									
	SPT	11.5	1/9	/18		10		31		dark gray	, fine	to med	ium; v	olcani	ic,	
SH	/	/		/			· 是			quartz an	nt debr	c grai is	ns; tr	ace s	110;	121
BY S	/	/		1/			120	0	:	,	- 1917-					
сикъ в	5/	125/	4/	18/				100	SAND -	as above;	wet			(ACADADA)		122
1	SPT	14.0	14/	18				1								
-86	/	/		/						1500			1			
2-18-86	1	1		1		15-			:						0	
2	1	15.51	11/	18/	-	123			SILT -	dark gray	· lamin	ated a	t ton:	block	(v at	
DATE	501	/	12/	18			2			tip; abun	dant pl	ant fi	ber, e	specia	illy	300
	/	1/		/				Ш	END OF	at tip; o HOLE: To			6' maa	sured	inside	123
	1	//		//	1				2.10	auger: ho	le back	filled	to su	rface	111.7.1.14	
	4	/	-	/	-	-	Н			with cutt	ıngs		unwhite the			
	/	/		/			H	-								
	1	1/		1/	1	20 -										

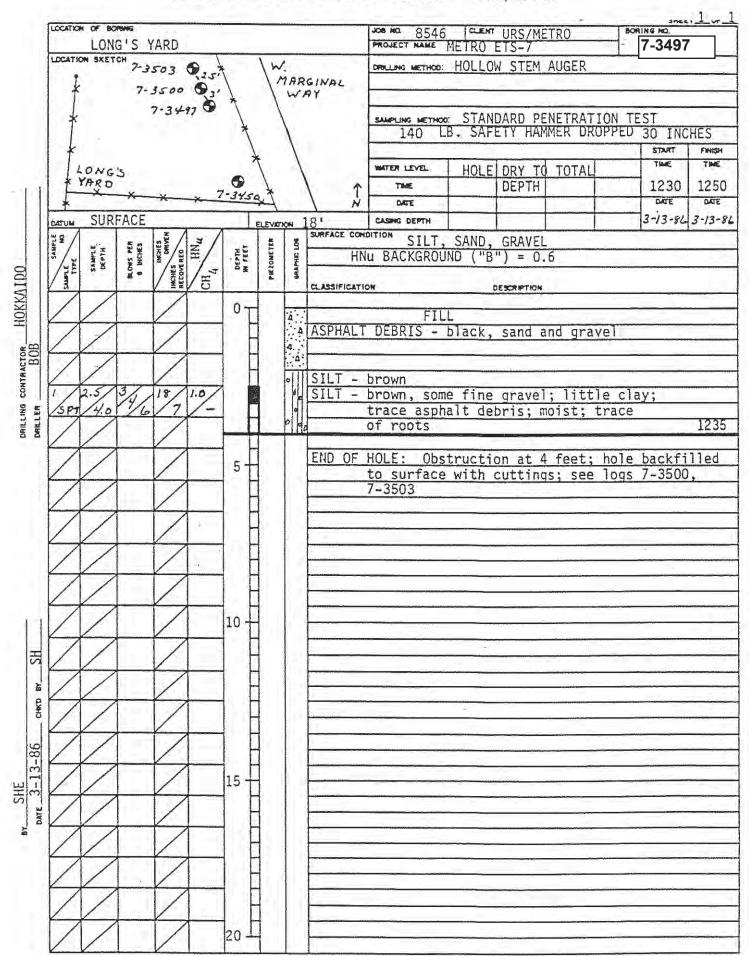
	200	NITO		RD, 5 TH.	s.				PROJECT NAME	METRO	URS/MI	ETRO	7-3200	1
		OH SKET			1		1		DRILLING METHOD	HOLL	OW STE	M AUGER	1 - 0 - 0	
	•			7-3200	0	*FEW	CE		SAMPLING METHO 140 LB	∞: ST . SAFET	ANDARD Y HAMME	PENETRAT ER DROPPE	D 30 INCHE	
					7	-315	0	* *	WATER LEVEL TIME DATE	9'	9.81	13.2' 1533	START TIME  1430 DATE	FINISH TIME 1600
	DATUM	SURI	FACE			ELEVAT	ION	17.51	CASING DEPTH	7-18-86	2-18-82	2-18-86	2-18-86	
OCC LENNING AND AND AND AND AND AND AND AND AND AND	SAMPLE	SAWPLE DEPTH	OLOWS PER	IIN 4	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOS	SURFACE CON	HNU UNAV	RUSHED AILABLE	ROCK			
	SAMPLE	SA	8 0 m	INCHES DRIV	30 %	PIEZO	GRAP	CLASSIFICATI			DESCRIPTION			
2					0 T		Ш		FILL					
2	/			/.										
DRILLER JIM	SPT	1.0/	2/2/3	18/				SILT -	light gra	av: com	On+ 1400	.+	- Att	* 45
	/ 311	3.5	/3	/				3121	right gre	ay, cem	ent was	re		145
DRILLER	7									19.1	· · · · · · · · · · · · · · · · · · ·			
, ,	2/	4.5/	1/	18				SILT -	light gra	av; cem	ent was	te		151
	SPT	160	1/2	18	5 1									
	3/	7.0/	1/	18										
	SPT	//	10/10	1/				SILT -	light gra	ay; cem	ent was	te		·
	/	/						SAND -	dark gray	v. fine	to med	ium;	11	
	/					MY D			plant del					152
H	1501	9.5/	15/50	14/14	10-	1500	0	SAND -	dark gray	y; fine	to med	ium; some	silt	153
S	/									-		ALCOHOLD IN THE STREET	•	
) Ja	5/	12.0	5/5/	18				CAND						
CHKD	SPT	13.5	3/3	18				SAND -	as above	HIP TO THE				154
1	/	1					10					•		,
-18-86	6/	14.5/	1/	18				SILT -	gray/brov	vn: ahu	ndant n	lant fibo		
2 -2	SPT	1	1/2	1 / 1	15-	May at 18			blocky st	tructur	e; poor	ly lamina	ted	1550
BY DATE	/	/						END OF	HOLE: To	otal de	oth 13.	2 feet me	asured	
<b>a</b>	/								inside au with cutt	iger: h	ole bac	kfilled t	o surface	
	/	/											4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
	/	/									V			
	1	/			20									

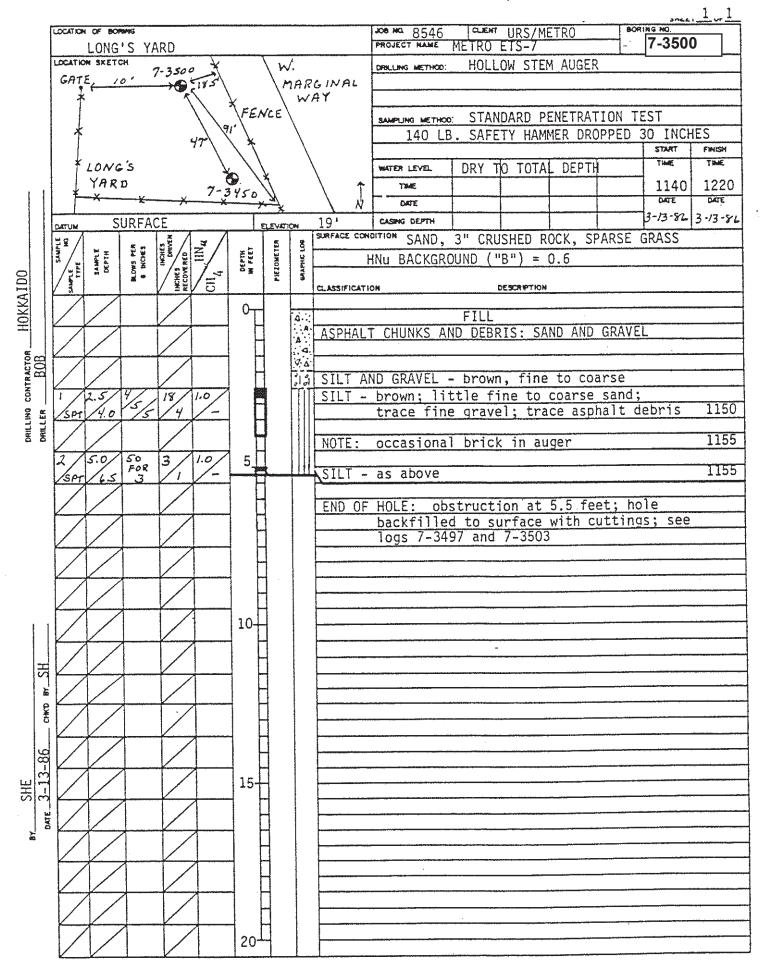
		FRAY'		RD						PROJECT HAME	6 CLEMI U METROLETS	RS/METRO -7	7-325	0
Ī	APPROXIMATION AND ADDRESS OF	M SKET		· · · · · · · · · · · · · · · · · · ·		×		15	J. MARGINAL	-	. HOLLOW S	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		
							1		WAY		1000		W	i parameter de la constantina della constantina
	*				7-33	00		FEN	-	SAMPLING METH	co: STANDAR	D PENETRATI	ON TEST	
	*					0		1	1	140 L	B. SAFETY	HAMMER DROP		ALL PROPERTY OF THE PARTY OF TH
	* .	RAY	1-				Lo	16	1	WATER LEVEL	5.1	6.01	START TIME	FINISH
Ţ	1	ARD	2			7-32	50	124 124	4014 1	TME	1520	1526	1430	0 1540
		*		Х.	<del></del> ×-		<b>X</b>	J24	· * N	DATE	3-14-86	3-14-86	DATE	DATE
1 5	DATUM	SURF	ACE				ELEVA	TION	17'	CASHG DEPTH				3-14-8
	SAMPLE	5 =	£ 5	INCHES DRIVEN	HINE	# L	CTER	8	SUMPACE COM	- UNA		CKBERRY COV	ER	
	TYPE S	SAMPLE DEPTH	BLOWS PER	INCHES DR	77	DEPTH # FEET	PIEZOMETER	MAPHIC LD9		HNU BAC	KGROUND =	0.4 ("8")		
1	4 3			N N N	CH <sub>4</sub>		ì	1	CLASSIFICATI	OH	DESC	RIPTION		
		/		/		0 T		0.00	Manuscome .	FI	LL	The state of the s		
				/			1	0.0	SAND,	GRAVEL -	brown, fir	e to medium	ı; fine	
	-	$\leftarrow$		$\leftarrow$		}	-	. 0		to coars	e			
DAR LER BUB														
	1/	2.5/	2/3/	18/	B				SAND -			sty stain a		
DARLER	SPT	14.0	1/5	10	/-		1				cement was	to medium; te: moist	TILLIE TIM	144
8							1	13.						
	2/	5.0	12/	18/9	3/	5			SAND -	as above	Coment I	vaste; trace	of wood	
	SPT	16.5	/7	1			P		JANU -		glass in		: 01 W000	145
	۷,	/					152	# · · ·	11					
	/	/	-	/					1	The state of the s		- mm-mm-	A CONTRACTOR OF THE PROPERTY O	11 10 3 1 10 10 10 10 10 10 10 10 10 10 10 10 1
	3/	7.5	1/	18/	B				SAND -	as above	, cement v	vaste; glass	;	
	SPT	19.0	14	/2	/-					very moi	st			145
	/	/		/				7	1	many .	Tour Section 1			THE WILL
ń	4/	10.0/	3/1/	18/	B	10 -		0						
	SPT	/11.5	/7	/10	/-		SEA	1	SAND -			quartz and 1 roots at top		150
SH	/	/		/					:	grains,	abditalite	ooes at top	, ncc	100
, id	/	/		/			I							
CHIKED	5/	12.5/	2/	18/	B/				SAND -	as above	: trace o	f fine to co	parse grave	1:
1	SPT	14.0	1/12	/10							nal rootl			150
98	/	/		1/			4							
3-14-86	6/	15.0/	3/	18/	8/	1,-	Н	m		A Bar (1)	***************************************			Smiler
3-	SPT	16.5	1/2	18		15 -	الانتهام		SILT -	gray; la	minated;	abundant pla	ant fiber a	long
DATE	/	/		/			State.			odor; mo		bedding; s	irght organ	151
	1	/		/	1				END OF	HOLE:	otal dept	n 15.5 feet		
	/-	/	-	Y ,	-	-				bentonit	te seal at	10 feet; houttings; was	ole backfil ter added	led
	/	/		/			Н	View or the Control of the Control o		during	rilling,	water level	is probabl	у
	/	1		1/			H	War and the same of the same o		high.				
	<u></u>	/		Y		4	H							

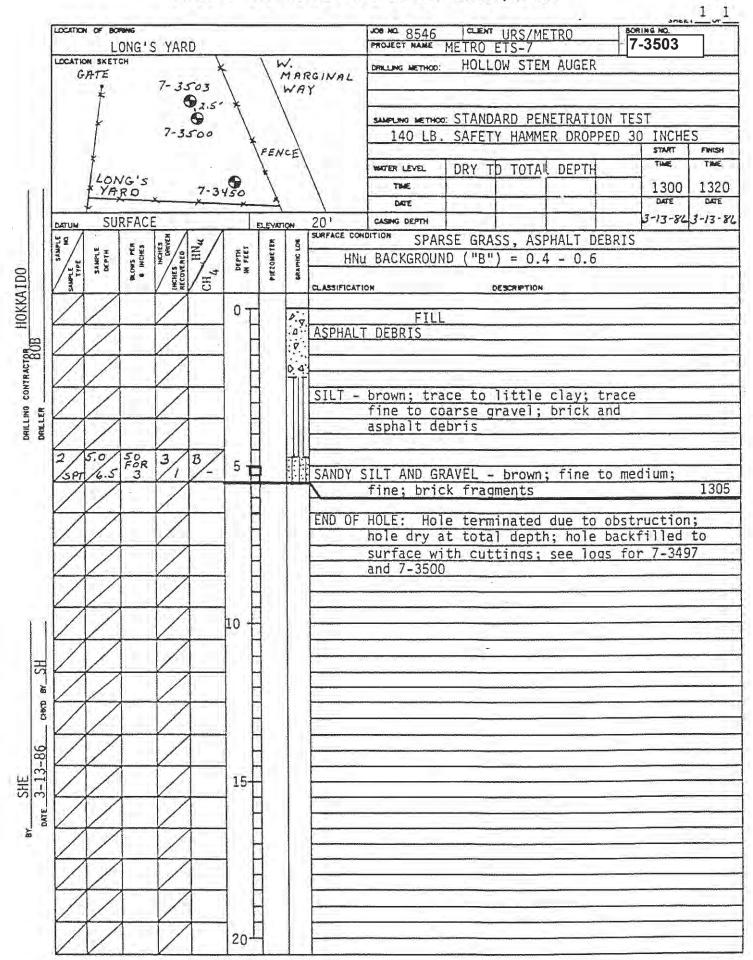
		N OF BOT		n					THE STATE OF THE S	PROJECT NAME	METRO E	RS/METRO	80	7-330	0
		ON SKET			9	¥		W	ARG INAL	DRILLING METHO	***************************************	STEM AUGER			
			, 55		300	13.7	1	1	WAY			RD PENETRAT			The state of the s
				7-3	,,,,,,	1	50.	FEA	CE /	140	B. SAFET	Y HAMMER DE	OPPED	30 INC	HES FMISH
		FRAY			7.	- 3250	6	×	1	WATER LEVEL	13.5"	13.1		1315	1420
	L.	YARE	· · · · · · ·		- ×	-	Ж		T /*	. DATE	3-14-86	3-14-80		DATE	DATE
	DATUM	SUR	FACE				ELEVAT	ION	17'	CASING DEPTH				3-14-86	3-14-8
	SAMPLE	SAMPLE DEPTH	GLOWS PER	INCHES DRIVEN RECOVERED	HNA	DEPTH M FEET	PIEZOMETEN	PRAPHIC LOG	SURFACE CON	ON BACKG		ACKBERRY CO	VER ("B")		
	/ 3°	•	8 3	HICHE	CH <sub>4</sub>		ž.	5	CLASSIFICATI	ON	ĐE	SCRIPTION			
	/	/				От				pr -					
	/	/		1				4	SAND A		ROCK -	brown, med	um to		men
	4	/		/				0		coarse;		Microsoft Co.			
ana	/	/		/			-	A		Olivero		شارورشيون و	*	<b></b>	
- House	1/	2.5/	3/2/	18/	3.0/			0.0	SILT,			brown; fine	to co	oarse;	1005
DRALLER	SPI	14.0	/3	19	V-		7	10		fine to	coarse				1325
De	/						1	ir		4.7		4			
	2/	5.0/	3/2/	18/9	2.5/	5		11:		CAND AND	CDAVEL	an abount	ood de	hnic	1330
	SPT	16.5	/3	17	/-			0.1	SILI,	SAND AND	GRAVEL -	as above; v	voou de	20115	1330
	/	/		/			1	0.1							
	/	/		/			4	0.0		or anyoning or a con-	1-102-201				
	3/	7.5/	4/5/	18/	B	1 1	1	.0	NO REC	OVERY FIR	ST DRIVE		wan 100 - 11007C	, 407	1337
	SPI	19.0	13/5	10	1-			1.0	SILT.	SAND AND	GRAVEL -	as above			
	/	/		18/			i	0.3			*				
	4/	10.0/	6/9/	18/	2.4/	10-		10:				1			c 4/4
	Sp	/11.5	1/10	14	121	1.0	1	1/				lant materia to medium;			1343
K	/	/		/	1-		SEA	1	JAND -	lithic g		o mearan,	1001 02	S-4(	
78	1	1/		1				Z	4						
CHO	51	12.5/	1/	18/	2/		V		SAND -	dark ora	v. fine 1	to medium:	indist	inctly	Link are.
2	150	14.0	1/3	/11	/-		191			bedded		*V 100 = 1 = 101 × 1			1355
98	1	1/		/			4								
-14 - 86	6	15.0/	5/	118/	1.2/		H	ii		10000					
3	Sp	1/163	1/3	18	/-	157	÷		SILT -	gray bro	wn; lamir	nated; abun	dant w	ood	w 140
DATE	1	/		/		157	21.4			debris a	long bedo	ding; sligh	L orga	nic ode	140
۵	/	1/	1	1	1			11	END OF	HOLE: T	otal dep	th 14.9 fee	t insi	de auge	ri
	/	/	1	1	-		H					laced at 11 rface with			
	/	/		/			Ц			sample 4	interse	cted fill c	ontact	; fill	
	1	1/	1	1						sampled	as 4A, na	ative soil	as 4B		
	/	X.	+	1	-		H		-	W. Mc Da	W				
	1/	1/		/		20-							Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Ma		

	LOCATIO	N OF BO	P6/PG							<b>ЈОВ НО</b> 8546	CLIENT	URS/METRO	ВС	RING NO.	. 1 1
			'S Y/	ARD						PROJECT NAME	METRO	ETS-7		7-3350	
	LOCATI	ON SKET	<del></del>	DM-3	27 🕏	×	\ \	1	ARGINAL WAY	DRILLING METHOD:	HOLLOW	STEM AUGER	*		
					<b>∵</b> . າ າ	49'	125	×		SAMPLING METHO 140 LB.		IDARD PENETRA ' HAMMER DROP		<del>''''''</del>	5
				:	7-33	3 0	1	CV.	* /		1	[40.0]		START	FINISH
							`	7,33		WATER LEVEL TIME	11'	10.9'		1130	
						7-3	330	, <b>6</b>	N	CATE	3-14-86	3-14-82		DATE	DATE
	DATUM	SUR	FACE	z /	7		ELEVAT	ION I	17 SURFACE CON	CASING DEPTH	COVER			3-14-86	3-14-86
	SAMPLE NO LE NO	SAMPLE DEPTH	BLOWS PER 6 INCHES	INCHES ORIVEN INCHES RECOVERED	HN4	DEPTH IN FEET	PIEZONE TER	PAPHIC LOG		lu BACKGOU	S COVER	') = 0.8 - 1.	0		
1 5	3		# -	<b>₹</b>	CH <sub>4</sub>		-	٠	CLASSIFICATION	ON .		DESCRIPTION			
HUNNAL DU	4					0		A A	COLICIES	FILL					
CONTRACTOR BOB	4	/		/				114	CKUSHEI	RUCK AND	3111 -	gray, 2"			
NTRAC										2410 410 0	DUCUES	2401			
DRILLING CO DRILLER	SPT	1.5	3/4	18/	2/_				SILI,	to coarse		ROCK – brown noist	; tin	2	1218
DRILLING						L	1	V. 7							
	SPT	5.0	14/8	18/	/-	5			SILT,			fine to coar	se; t	race	122
	4		1			ļ				crusiled r	OCK, WC	ood; moist			122,
	3/	7.5/	5/	18/	3/			111	CAND A	ID CDAVEL	brown	i, fine to co	arse	fine	
	SP		3/12/		<u> </u>	F		0	.[			silt chunks			122
	4	10.0	ارط ا	18/	1.2/		SEAL								
	SPI	11.5	1/2	/10	/-	10			SAND -	dark gray bedded; q	, fine Juartz a	to medium; i and lithic gr	ndist ains;	inctly wet	123
er SH	1		1		-/										
CHKD 8	5/	12.5/	1/2/	18/	2.6				SAND -	as above			1 -		123
98	SP	14.0	/2	/10					SILT -	gray, lam bedding	iinateo	; plant debri	is alo	ng	
3-14-86	6/	15.0/	5/9/	18/	4.4	15-		<u>                                     </u>	CAND					1 a n +	
DATE		1/6.5	) lo	/12					SAND -	debris al		inated; trace dding	: U1 P	IGIIL	124
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1							END OF			oth 15.0 feet at 10 feet; h			
					1		1			to surfac	e with	cuttings; Hi of this hole	√u is		
					1										
		1/			1	20									

		ON BO		00						PROJECT HAME		URS/M	ETRO		7-3450	
		ONG !		Kυ	armanisti septem	1					METRO		AUCED		7-3430	
			ATE			1		W.	RRGINAL	DRILLING METHOD	HULLI	OW STEM	AUGER			*
		*		~ ~ ~		1			VAY						-11	
		*		7-350	00	,	7	1								
		1			1	121	*	)	1	SAMPLING METH			ENETRAT			CC
		FEA	***		1	12	*			140 LE	. SAFE	IY HAMM	EK DKOP	PEU 3	START	FINISH
		1.2"				1	17'2			WATER LEVEL	≈11'	3.9	3.91		THE	THE
		Î			7-345	0			1		1425		1540		1350	155
		* _	-1.			12'1	T	t	\ ]	DATE			-	<u> </u>	DATE	DATE
		CHD	E A C E			~	*		\ <u>N</u>		3-13-8	4 3-13-86	3-13-86		3-13-82	
	DATUM	SUK	FACE	1 × /	//		ELEVAT	HON	171 SURFACE CON	CASING DEPTH	00411				D 13 00	2 /3 (
	SAMPLE	۲ <u>.</u>	ž a	INCHES DRIVER ERED	III/	# to	PIEZOMETER	3		2 ANT	, GRAVI			FREIS		
	3 /3	BAMPLE	BLOWS PER	INCHES OFF	=/_	DEPTH IN FEET	TOM	MAPHIC LOS		HNU BACKGE	KOUND (	"R") =	0.4			
	1		₹ *	MCH CHE	/H5		2	2	CLASSIFICATI	ON		DESCRIPTION				
	/	/		1												
		/		/		To		Ü		FILL					e de la comercia	
2		/		/				. 0	SAND A	ND GRAVEL						
ana	/_	/		/			-			to coarse	e: wood	<u>. glass</u>	: sligh	ntly r	noist	
	/	/		/		-	-	TIT	-							, was the same of
	-	25/	5/	18/	1.0/			144	STITY	SAND - bro	own fi	no to n	nedium:	1:++1	le fine	
	SPT	4.0	17/6	1	/-	ľ	WE		SILII	gravel;	alass.	nlastic	wood	: mois	st	1400
DRILLER	7	1.0	7.0	17			IZY.			91.27.2.1	4,400,	p143015		3, 3, 3, 3, 3, 3		
S	/	/		/			112 4	111								
	2/	5.0/	6/	18/	B	5					- Indiana in					
	SPT	16.5	13	15	/-	2			SILTY	SAND - as	above;	trace	of asp	halt o	debris;	1400
	/	/		/			4			moist						1405
	V_	/_		/			4	111								
	/	/		/		H	4	14		1 -00		· · · · · · · · · · · · · · · · · · ·		<u> </u>		-
	2/	7.5/	2/	18/	1.0/				SANDY	SILT AND G	RAVEL .	- brown	. fine:	sand	fine t	:0
	SPT	/	14/6	1/6	/-		7		SAIL	medium;	abundan	t rust	y motti	ing;	1.120.7	
	1	1		1						glass; m						1420
	/	/		/			1-	77								
1	4/	10.0/	13/1	118/	0.8/	10		1	1				4		T 1	
1	SPT	11.5	1/3	12	/-	, 10	SEM	1	SAND -	dark gra	y, fine	to me	dium; l	amina	ted;	
_	1/	/		/	-/			11	1	quartz,	volcani	c and c	otner 1	ithic	grains	1425
2	4	/	-	1	10		-			moist					- Commercial Contract	4.74
6	/	/		/			-									-
CHACO	5/	12.5/	2/	18/	1.0/			1	SAND -	dark gra	y, fine	to me	dium: w	et		1430
0	SPI	//	1/4	/_	1-			1								
9	1	1	1	1	1					, , , , , , , , , , , , , , , , , , , ,						
3-13-86	/	/		/				-:			1.141-0			- Mathematical Control		
-	6/	15.0/	3/2/	18/		157			C. 1. T			ed.			Tamén	201
က	SPI	16.5	1/3	114		- "	4		SILT -	brown; 1 plant an	aminate	fibor	e Tine	sandy	o: ola	ss:
DATE	1/	/		/						very moi		FIDEL	a rong D	rau III	y, y,u.	1445
ā	1	1	1	1	1			14	END OF		otal de	oth 14	.6 feet	insi	de auq	CHARLES WERE THE TAXABLE PARTY OF THE PARTY
	/	/		/					2,,0	bentonit	e seal	at 10	feet; h	ole b	ackfil	led
	1	1/	1	1./	1	1				to surfa	ce with	cutti	ngs; wa	ter 1	evel s	eems
	/	/		/						high; au	ger tip	in in	permeat	ole si	lt, bu	t
	1	1/		1			Ц			water le			tall ev	en af	ter au	ger
		/		V				1		half pul	red out					
	-	1														







	LOCATION	OF BOR		•					L	<sup>∞e №</sup> 8546	CLENT	<u>JŖS</u> ŹMET	TRO		7-3546	
ł	LOCATIO	LONG M SKETC	'S Y			7		w.		PROJECT NAME NO			ALICED		7-3340	
		*	7-3	3546	3418	`*	\	MAR	SINAL	ORKLING METHOD:	HULLU	N SIEM	AUGEN			
	GAT	·E	00'			7	,	W	. [					······································	······································	
		*	70			7			ľ	SAMPLING METHO	STAND	ARD PE	VETRAT:	ON TE	ST	
-		T			•		* ~.	. \	<u> </u>	140 LE	. SAFE	TY HAMI	MER DRO	PPED	30 INC	IE\$
		*		7-	3500		1	NCE	\ [						START	FINISH
		LON	/6 'S				*			WATER LEVEL	≈11'	7.31	9.21		TIME	TEME
-	د	*		7-	3450	<b>⊕</b>		7	\ 1	TIME	1030		1104	1108	0920	1100
		0.10						$\supset$	\ <u>N</u>	DATE	3-13-86	3-13-86	3-13-82	3-13-86	3-13-86	
	DATUM	20KI	ACE	= /	/		ELEVAT	ION	20 SURFACE CONDI	CASING DEPTH	0041171	00110	0525 0	-DD TC	1	
	SAMPLE	# E	E S	POHES PRIVER	H.	E Š	ETER	9		SAND	GRAVEL	. CONC "B") =	REIE DI	0 6 BK15,	SPAKSI	E GRAS
	2 A H	SAMPLE	BLOWS PER 8 INCHES	INCHES PRECOVERED	7	DEPTH M FCET	PEZOMETER	MAPHIC LOS		INu BACKGE	עמטטג)	В ) –	0.4 -	0.0		
	/ 🖁			/ <u>E</u>	CH <sub>4</sub>			•	CLASSIFICATION	4		ESCRIPTION				
						0 —										
				$\leftarrow$		-	-	Δ.	SAND AND	FILL CRUSHED	POCK =	dawk	roum.	fine	to med:	i um ·
						-	1	Δ		"; brick					co mea	101114
							]	Δ.								
			,					T. Fi	CTIT AND	N CAND 1		<i>C</i> *			fi.	~~
		2.5/	14/		1.5/			111	SILI AND	) SAND - 1 pravel; da	orown,	rine to	od hal	ım; tr Finch	crush	16 16
	SPT	14.0	/13	/10		. F	}		)	rock and	and in	tin: I	noist	inch	Clasin	0945
						-	1	. 0								
	2/	5.0/	18/	18/	B	5 -	1	. 0								······································
-	SPT	16.5	14	/3	<u> </u>	7			SAND AND	GRAVEL -	- dark	gray,	fine to	<u>coar</u>	se; fi	ne;
							-	. 0	1	trace sil	; poss	ibly o	iled; r	noist		0955
						-	-	0					<del></del>			
						ľ	1_	- 0.								
	3/	7.5/	5/1/	18/	1.5/		5	111	SHILD HILL	GRAVEL -					nly 1	inch
	SPT	19.0	15	//	/-		WL	ij.		recovery:		rown s	andy s	ilt	haari	1005
				18/4			$\Box$	-	SANUY S	ILT AND O and dark	ILEU (:	) SAND	ne to i	COARSE	- brow	<u>                                     </u>
	4	10.0/	5/	<i>y</i>	B	10	1/09			fine; moi	st	and in		<del>504, <u>5-</u></del>		
	SPT	/11.5	13/2		10		SEA		SAND -	dark gray	, fine	to med	ium; l	aminat	.ed; qu	artz,
										volcanic	and oth	er lit	hic gr	ains.;	very	1025
	K.,	V.,				[	7	1:::		moist						1043
							-	· · · ·								
	5/	12.5	4/1/	18/	1.0/	1		1::	SAND -	as above;	occasi	onal s	ilt ri	p-up		
-	SPT	140	1/3	/12	/-		Ě	::		inclusion						1030
	/	1/		/		[	_	:::			·					
	K-	K	57	100	77	4 }	-									
	SPT	15.0/	14/6	18/	3/	15			SAND -	as above						
CATE CONTRACTOR	7	17		1	1	1	Mark		SILT OR	FINE SAN	D - dar	k gray	; lami	nated		1040
Š	/					] [										
	7/	16.5	3/3/	18/	B					as above;						1049
	SPI	18.0	73	15	<del>  -</del>	-				interbedd	ea; pos	sible	Taint	organi	c odor	1043
						-	+	+	END OF	HOLF: To	tal der	th 16.	2 feet	insic	le auge	r;
		1/			1	1				bentonite	seal p	laced	at 10	feet;	hole	
	/									backfille	d to si	ırface	with c	utting	ļs;	
	1/	1 /		$\perp$	1	20 -			L	see log 7	-3550					

LOC		OF BOR	7.0	20						PROJECT NAME	AFTRO F	URS/ME	TRO		7-3550	
LOC				3546	4.	*	\		RGINAL	ORBILLING METHOD:			AUGER			
	1			7-350		7	ENC	1	AY	SAMPUNG METHOD	STANC	ARD PE	NETRAT	ION T	EST	
	+			1 250	00-	7	ż	1		140 10.	SALETT	HAMPLER	DRUPP	בט טע	START	FINISH
	1	*	_	7-,	3450	9	7	,	\	WATER LEVEL	HOLE	DRY TO	TOTAL		0825	0920
	Į.		-6	*	<del></del>	-	*		1 1	DATE	DELLI		1		DATE	DATE
		SURF			,		ELEVATI	ON Z	SURFACE CON	CASING DEPTH					3-13-86	3-13-1
SAMPLE	N N N N N N N N N N N N N N N N N N N	SAMPLE	BLOWS PER	INCHES DRIVEN RECOVERED	HNH	DEPTH IN FEET	PIEZOWETER	MAPHIC LOG	SONFACE CON	HNu BACKG		"B") =				
1/	3			ES	\£		ž		CLASSIFICATI	J. T. T. T. T. T. T. T. T. T. T. T. T. T.		DESCRIPTION	- mo-sorame - etc etc.			
K				/		OT		0000	SILTY	FIL SAND - dar	k brown					
7 /- /- /- /- /- /- /- /- /- /- /- /- /-	1		**	/				0 0 0		fine to c	oarse C	ravei;	concr	ete D	TOCKS	
1	SPT	2.5/	3/4/12	18/2	8/-				SILT -	brown; li brick deb		ne san	d; woo	d,		084
Walter T																
2	SPT	5.0/	14/3	18/3	B/-	5			SILT -	as above;						085
4		4		/			1	a b		NOTE: asp						
3	/	7.5/	50 F2	2/	3/				SILT	- as abov						090
4	SPT	19.0	2	12	/-				END OF	HOLE - ob	struct	ion at	7.5 fe	et: h	ole	
K		/		/		10-				backfille see log 9	-3546	irtace	with c	utţin	qs:	
		/		/			1									
1 ×		/		/				and the same of th								
1 ×		/		/			-									
	/	/		/							m-14 r-1					
	/	/		/	-	15-										
DATE	/	/		/	+											
K	7	/		/						Transaction and the same		***************************************				
1	/	/		/	1											
	/	/		1/	1	20-										

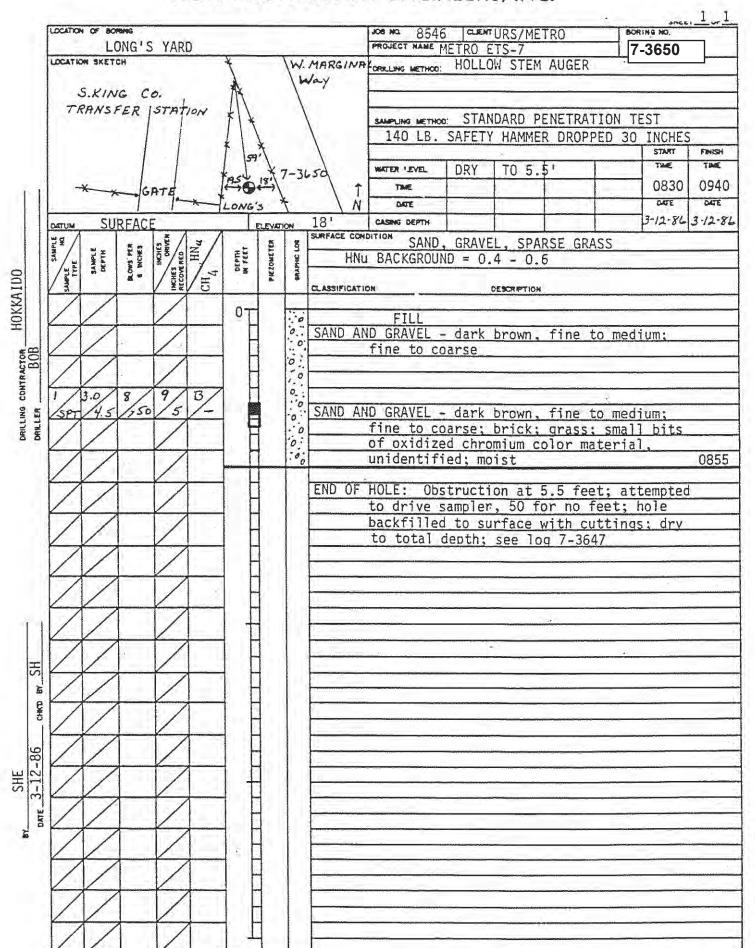
	N OF BO								₩ 8546		URS/M	TRO		1146 HO. 7-3597	. <u>.12</u>
	LONG !		(D		`		12		JECT HAME			MIOED		1-3391	
	NG C				*			ARGINAL	LING METHOD:	HULLU	M ZIEW	AUGER		***************************************	~,
TRA	NSFE				$I \setminus$		1	WAY	TOTAL OF THE STATE			er, <u>Antonioria</u>	a anagerica	STATE TO STATE OF THE STATE OF	
STA	TION	1	İ	1	7-	3647	,	\	PUNG METHOS	STA	NDARD I	PENETRA	TION	TEST	
	~		1	*	4	1		\   500		B. SAF					HES
		GATI	1/->	-t.	149	1.			140 L	יותכ יע.	CII IINI	MITCH DI	(OF FED	START	FINISH
				1	4	<u> </u>		1840	TER LEVEL	16'	14.1	13.8	13.2	TIME	THE
	1		/	17	-359	11.5')	1	1	THE	1642	1648	1652	1656	. 1 3 3 30.	1710
	,			TFEA			×	/ //	DATE	The residence of the last of t	3-12-86	And the second second		CATE	DATE
MULTAN	SUR	FACE				ELEVAT	10N 18	2 CA	SING DEPTH					3-12-86	3-12-8
-			* × /	4/			100	SURFACE CONDITIO	GRAVE	L. SAN	D. SPA	RSF GR	ASS		
N N	SAMPLE	BLOWS PER	PICHES  PRICOVE NED	H.	DEPTH M FEET	PIEZOMETER	MAPHIC LDG	HI.	u. BACKG						
72	SA	St. Dw	COVE	CH <sub>4</sub>	2.2	T E	GRAP								
3			¥ # #	/ 5				CLASSIFICATION			ESCR PTION			Vertex 4 dentes	
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/	1		/			+	0	GRAVEL, S.		T - br	own; 1	arge co	oncret	e chuni	KS,
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_	/					1	. 0		S-100-1						8.5
1/	2.5/	15/10/	18/	13/		7	. 0	SAND AND				ray, t	ine to	coarse	1500
SPI	14.0	10/8	17	/	-	-	0.	CO	ncrete c	euris;	dry		-	- Department of the second	1300
/	/		/			H	0							2.00	
2/	50/	4/	18/	8/			10.7							unuscuppin-	
SP	16.5	1/5	17	/-	57		1.0	SILTY SAN	D AND GF	RAVEL -	brown	, fine	to co	arse;	7007
/	1/		/				.0.	fi	ne; plas	stic ti	le; mo	ist			150
/_	/		/				B. 1								THE
/	/		/			Н	0.11			Manager .			- Wiletwi		
3/	You !	11	100	B			1.1.	SILT, SAN	D AND C	DAVEL	brown	fino	to me	dium	1515
SP	7.5	17/9	1/10				.0.		ne to co						
/	1		1			П	1.0			201351	<u> </u>	<u> </u>			
			/				77						uu aadaasa		
4/	10.0/	17/2/	18/	B	10-					-					
/SP	11.5	1/9	114	/-	-	SER	1//	SAND - da	rk gray	<u>fine</u>	to med	<u>ium; q</u>	<u>uartz.</u>	volca	nic 152
/	/		/			SEA	1/2	an	d other	lithic	grain	s; wet			152
_	/	-	/	-	4	H		· · · · · ·							
/	/		/	10		Hwi	1:00	1	<del></del>	1		*****			
5/	125/	4/	18/	B		. ♀			rk gray					organ	ic
SP	14.0	//8	10	/-		103	1:::	de	bris; ii	ndistir	ctly 1	aminat	ed		153
/	1/	1	/	1		Ц"	1.5								
4	/	107	/	P	-	Н						··········			-
6/	15.0/	1/6/	18/	18/	15		1::	SAND - as	ahouo						153
/SP	1/163	1	1	1		Ę	1.	SAND - 45	above				-	سمرني والمراجع	100
/	/		/			H									
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7/	17.5/	1/1	118/	1-/			1	SANDY SIL				lamin	ated;	wood	154
150	1/19.0	//3	/18	1-	-		1	<u>de</u>	bris al	ong bed	ding	···	· · · · · · · · · · · · · · · · · · ·		154
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	ONG S		n						PROJECT HAME	METRO	URS/M	ETRO		-3597	
	M SKETO		U		1	1	W.		DRILLING METHO	1141110	W STEM	AUGER		0037	
5. K	ING C	0.			*		ME	RGINAL	DHILLING BE INC	0. 110 Land	n Jien	NOULI	**************************************		
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		1	1	1	7004	+	)		SAMPUNG MET						urc
		GATE	-	1	149'	1		1	140	LB. SAF	ETY HA	MMER D	KUPPED		
	24		-	7		1					· · · · · · · · · · · · · · · · · · ·	1-2-3-3-3	I a second	START	FINISH
	/		/	146		2. 7		1.	WATER LEVEL	16'	-	13.8'	13.2		
	1	1		* 7	3597	1		1.7	TIME	1642	1648	1652	1656	1430	171
		,		*			*	/w	DATE	3-12-86	3-12-86	3-12-86	3-12-86	DATE	DATE
DATUM	SUR	ACE				ELEVATIO	W	18'	CASING DEPTH					3-12-86	3-12-2
1			\$ /	7/	1 3 1			SURFACE CON	DITION	·····	No.			-1-2-	
SAMPLE	ラボ	B INCHES	INCHES DRIVEN F REG	NH/	E 3	PIEZOMETER	BRAPHIC LOS						manaranama ve e ro-		
1 m	SAMPLE	DWS.	E SE	7 =	DEPTH IN FEET	£203	HAPH			7 - 00 - WATER OR ALL HERD	Water Company of the	- Laborator School	•		
1			INCHES PRECOVERED	AH A		T	100	CLASSIFICATI	ON		DESCRIPTION				
8/	20.0/	2/		B		1	- 1							<del>'''</del>	
SPT	115	12/5	/18	/-	20		1111	SAND S	LT - as	above	3.3.0-0-0-00				
			1				111	-, V			111111111111111111111111111111111111111		(120)		×
/	/		/				1111	-			WWW	MC0-11	and in		
			1							vano * - 2	* 3005mmm.				
/	/		/			1	7		, 100° M						
9/	22.5/	4/	18/	8/				SAND -	dark gra	v. fine:	silty	and 1	aminate	ed	
SPT	24.0	18/9	/10	/-				27 (7.12)	in place	s: wood	debris				160
/31.1	21.0	7 3	7				0.		3111 /211-2-3-	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				(66-17-1	
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10/	25.0/	7/	18/	-	1	1				NA.					
/	/	/12/	10		25	1		No reco	overy on	first dr	rive				160
SPT	126.5	120	18/		1			No reci	overy sec	and try		1000			
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1			/		1 1			***********					- 4		
/	/		/		1 1	1					WASHING				-
117	21.5/	2/	18/	8/			130	SAND -	dark gra	v. fine	to med	ium: a	uartz.		
SPT	29.0	13/8	3	/-					volcanic						162
/	7	7.0	/						,0104719	41110 0 0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
/	/		/					SAND -	as above	: trace	of coa	rse gr	ains		163
12/	29.0/	3/	16/	18/				071110	00 000,10	1 3					
kor	30.5	15/50	/16	1/0	30-									***************************************	
1351	00.3	700	/	1		1		END OF	HOLE: T	otal der	oth 26	5 feet	insid	e auger	n;
/	/		/		1	-		UI	bentonit	e seal	at 10 f	eet: h	ole ba	ckfille	ed
/	/		1		1	1			to surfa	ce with	cuttir	igs: se	e log	7-3600	
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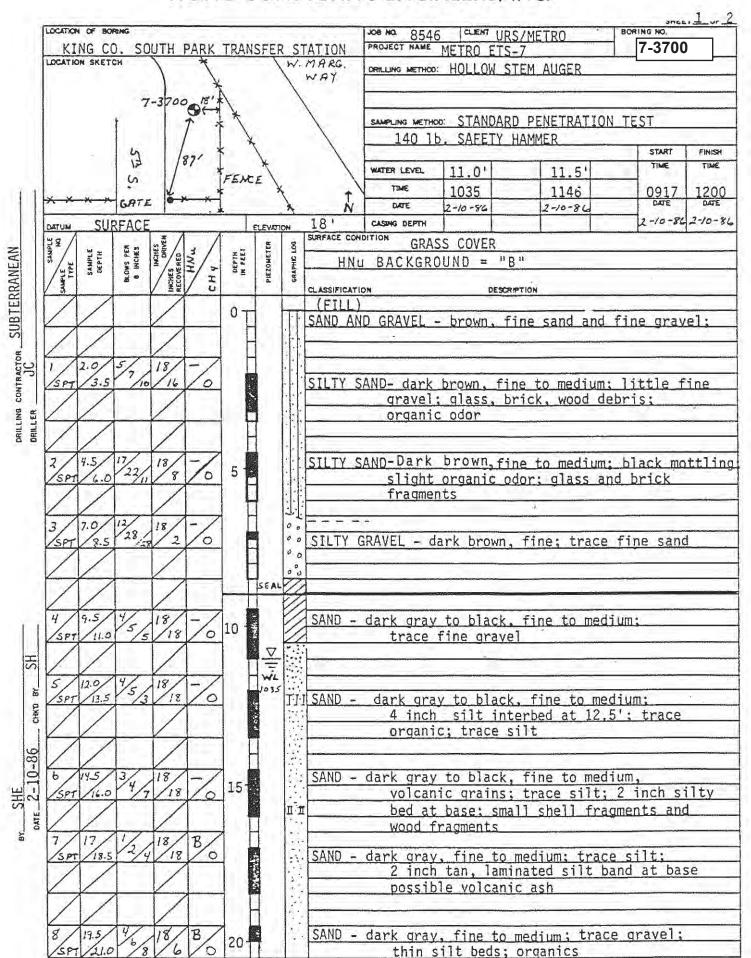
L	OCATION	LONG		ARN		30A) - 31 0 -	4			PROJECT MAME	MCTD	M URS/M	ETRO		ON BRIDE	<u>., 1</u> ., <u>:</u>
1	OCATIO	LUNG		יארט	X.	7		M 4 4 4 4	CINAL	PROJECT NAME			ALICED	1	7-3600	
- 1		NG C			**			MAR! VAY	GINAL	DRILLING METHOD	: HUL	LUM SIEM	AUGER			
1	TRA			*	1		1						VIII.			
-				1	7-3647		1			SAMPUNG METH	o: STA	NDARD PE	NETRAT	ION T	EST	
				*	9	¥		/		140 l	B. SA	FETY HAM	MER DR	OPPED	30 INC	4
	-			1		1		1				- 15		T	START	FINISH
		GATE	~	1.	7-360	*		1		WATER LEVEL	DRY	TO TOTA	L DEPT	1		
1				*	7-360	3'		1	, 1	TIME	<del> </del>				1350	143
11			-	*	•	7-35			<u>N</u>	CASING DEPTH					3-12-82	
1 -	-	SURFA		× /	/		ELEVE		SURFACE CO	GRAVI	71 CA	ND CDAE	SE COV	50	D 12-30	13-72-8
	N P	DE.	E E	INCHES DRIVEN	HINA	25	PIEZOMETER	BRAPHIC LDG		HNu BACKGF	OUND	= 0 4 -	0.6 ("	3")		WW0.000777-0007-000
11	1 HE	SAMPLE DEPTH	BLOWS PER & INCHES	INCHES DRIV DRIV DRIV DRIV DRIV	7	DEPTH M FEET	16231	MAPH		mu phonu	100110	0.7	0.0 ( )			
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		/		/					J4-11	fine to						
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DRILLEN LILL		(		/				[1]1	CILT	ND CAND			o modifi	im •		
1	1/	2.5/1	10/	18/	3/			in	SILI A	ND SAND - concrete	debas	, iiiie t	U HEUI	alli 9		140
DANILLEN	SPT	14.0	/12	6			-	1.1.		Concrete	GEDI I	2		2011 10001		110
DE L	/			/			1	111		- CHIMINE						
1	/			/					END OF	HOLE: 0	struc	tion; ho	le bac	kfill	ed to	
	_					5-				surface v	vith c	uttings;	see l	og /-	-359/	**************************************
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LOCATION OF BOPING	PROJECT NAME METRO ETS-7  PROJECT NAME METRO ETS-7  PROJECT NAME METRO ETS-7
LONG'S YARD	HOLLOU CTELL BUCES
) W. MAKGHAME	DRILLING METHOD: HOLLOW STEM AUGER
TRANSFER WAY	
STATION * FENCE	
1 / / / / /	SAMPLING METHOD: STANDARD PENETRATION TEST
PAVINE \$7-3650*	140 LB. SAFETY HAMMER DROPPED 30 INCHES
	START FINISH
	WATER LEVEL 29.5 10.9
7-3647	t 1040   1307   0940 1330
GATE A	N DATE 3-12-84 3-12-84 DATE DATE
DISTUM SURFACE ELEVATION 181	CASING DEPTH 3-/2-86 3-/2-8
TO SURFACE	SAND, GRAVEL, SPARSE GRASS
SAMPLE NO TYPE SAMPLE DEPTH NO	HNu BACKGROUND = 0.4 - 0.6 ("B")
TOTAL TOTAL	· · · · · · · · · · · · · · · · · · ·
SAMPLE NO. TYPE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE DEPTH INCHES PROPER BENCHES PR	CATION DESCRIPTION
	FILL dawk brown fine to modium:
SAND	AND GRAVEL - dark brown, fine to medium;
H a	fine to coarse: pipe, rubber, concrete debris
	den[12
0	
SAMO	Y SILT AND GRAVEL - brown, fine to coarse;
501 4.81 /6 /3 - 10 SAND	possible concrete debris; moist 100
SPT 4.5 6 3 A	
FA TATAM	
5+ 5	
2 5.5 50 3 B I I SAND	Y SILT AND GRAVEL - as above; concrete in
2 5.5 50 SAND	tip; moist 101
	10 to
1:0.	
3 8.0 8 15 18 B	
SPT 9.5 13/6 18 - SAND	
	little silt at top: trace of styrofoam
	at top; concrete chips; moist 102
- 10 SEAL	· · · · · · · · · · · · · · · · · · ·
	- dark gray, fine to medium; occasional 104
	silt rip up; quartz, volcanic, lithic grains
SPT 120 34 18 - 1307 111 STIT	- gray brown; laminated; fine scale mottling:
310	trace plant debris
	CLOSE AIGHT ACALLS
5 130 34 18 B - IH SANE	AND SILTY SAND - dark gray, fine to medium; 105
	gradational; laminated where finer grained
15	
6 15.5 2 18 B SANE	) AND SILTY SAND - dark gray, fine to medium:
w   /   /   / /   /	interbedded: piece of plastic at top:
	slough? 110
7 18.9 3 8 18 B	- 1. d.ol. was transfer and hadded
SPT 19.5 87 18 - SIL	- gray to dark gray; laminated and bedded
	with some fine sand in beds; occasional
	tan laminae 111
20 1	

	MG				PROJECT NAME	MCTERO CTC	SYMETRO	BORING NO.	. 2
LOCATION SKETC		1				METRO ETS-	ATM SHARE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN	7-3647	
S. KING CO	- \		PRGIN	AL	DRILLING METHOD:	HOLLOW ST	IEM AUGER		
TRANSFER		ENW	AY			2 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
STATION	1	1				STANDAR	NEWETO 4 - 10	u TEST	(0-w-xx-xx-xx-xx-xx-xx-xx-xx-xx-xx-xx-xx-x
1	7-3650						PENETRATIO		
PAVING	* 0 *	1			140 L	3. SAFETY I	HAMMER DROPPI		FWISH
1 /	/ O3' \	1						START	TIME
	7-3647		/		WATER LEVEL	≈9.5'	10.91	0940	1330
1 / +		*	1	T	THE	1040	1307		
GATE	a de la compansa de l	1	1	N	DATE	3-12-82	3-12-86	DATE	DATE
DATUM SURF	ACE		LEVATION	18'	CASING DEPTH			3-12-86	3-12-8
78	-		5 8	SURFACE COM	DITION				
SAMPLE NO YPC YPC SAMPLE DEPTH	MCHES MCHES	DEPTH W FEET	PIEZOMETER GRAPHIC LOG			DI			
	- See /	7 0 %	IEZO PRAPI		- Cana				
State of the state	GI RECOVER			CLASSIFICATI	ON	DESCRI	PTION	.,,	
		20-							
1/			i i i	CTIT	IO CAND		P. C. C. C. C. C. C. C. C. C. C. C. C. C.	h a al al a al	
8 205	5/1/18/18/18		35	SILT AN	U SANU - I	gark gray,	fine; inter	Deadea	
SPT 22.0	18/18/-				and inter	iaminaced;	trace of p	tane	
				-	of glass	ace of sne	ll fragments	, trace	1125
9 /23.0/	7/10/18	<b>-</b>	1-11	,	or grass				
	7/10/18/18/18/		1.4	INTEDRO	DDED SAND	AND STIT	- dark gray,	fine to	
SPT 24.5	1/14/12/-			INIERDE		aint organ		Title co	113
# / / M			Tiji		medium, r	arne organ	re odor	u v	****
K X			100	<u> </u>					
		25 +							
10 25.5	2/18/B			SAND -	dark grav	, fine to	medium; quar	tz.	
SPT /220	3/8/16/	-					lithic grain		1200
1//									
SPT 29.5	2/ 18/B	7 [						- 4.00	
SPT 29.5	13/12/18/-			SAND -	as above;	trace coa	rse		120
						,,			
1///		30 +	1.0			White the substitution of			
VV		ړ ``ل	1 3						- in an an an an an an an an an an an an an
-/30.5/	15/4/18/		1 1:3	No rec	overy on t	wo attempt	3		
SPT 20	115/0/		1 13	CAND				incida	EDAMA D
12 313	12 3	_		SANU -	Name - Control of the	about 2 T	eet of heave	: 1115108	125
E SPT 33.0	/10/	- F			auger				140
5 / /			-	LEND OF	HOLE: To	tal denth	29.7 feet in	side aune	r:
IK X			1	LIND OF	hentonite	seal plac	ed at 10 fee	t: hole	
8//							ce with cutt		٧
12-88			1			e: see loc		Z (113) Z ( 1 X 1	
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K	ING	of 80	SOL	JTH P	ARK T	RANS	FER	ST	ATION	PROJECT NAME	6 CLIENT METRO E	URS/ METR TS-7	Ω	BORING NO.	3700
100	ATIO	N SKET	3H							DRILLING METHO	HOLLOW	STEM AUG	<u>R</u>	***	
de la companyación de la company										SAMPLING METH	∞:STANDA b, SAFET	RD PENETR/ Y HAMMER	ATION	TEST	
										4191	V1 V/11 L	I HABITER		START	
										WATER LEVEL	11.0'	11.	.51	TIME	TIME
										TIME	1035	114	16	091	
								****		DATE	2-10-86	2-10	-86	DATE	86 2-10-2
DATE	1	SUF	RFACE		1 1		ELEVA	TON	18 surface co	CASING DEPTH				12-10-	86 2 10 1
DH.LER UV.	TYPE	SAMPLE	BLOWS PER 8 INCHES	INCHES DRIVEN INCHES DRIVEN RECOVERED	HN CHy	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	CLASSIFICAT	GRAS	SS COVER	SCRIPTION			
	1			/		20				***					
/	1			/				1.0	END OF	HOLE; To	tal Dont	h 21 feat	incic	la augar	
	1	/	· · · · · · · · · · · · · · · · · · ·	/					END OF	boring	backfill	ed upon co	omplet	ion wit	h
K	1			//						cutting	s, bento	nite seal	9.0'	to 10.0	1
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/	1	4		1	-		-							With the second	
	/	/		1/	1	1 1	-					No. of the last of		22.0040	

	C COL		COUT	I DAD	V T-	ANCE	·rn	CTN	JOS NO. 8546		METRO .	7-37	~~~	
	ON SKET		SOUTH	Y PAK					DRILLING METHOD	METRO ETS-	TEM AUGER			
	D ×1	1		7	1	W.Mx	WA)		UNICERS METRO	. HOLLOW C	TEN AUGUN			
	PAVIN		7-27/ 0	19'	1		1							
			2-3760	9	*	1				o: STANDARD		ON TEST		ne ma conto
KIN	G CO		1	158	1 7	1			140 11	SAFETY F	HAMMER			
5.7	PARK.		1	7	0	FENC	(3		WATER LEVEL	122 01	lan sil		IME	FINISH
	NSFE			7-3	700	×	1		TIME	11.0'	13.51	1.	200	1400
٠,	TATIOA					, )	+	1 1	DATE	2-10-86	2-10-86		MTE	DATE
DATUM	SURF	ACE				ELEVAT	OH	18	CASING DEPTH			2-1	0-86	2-10-8
			× /				- 1	SURFACE CON	GRAS	SS COVER				
SAMPLE	SAMPLE	BLOWS PER	INCHES DRIVEN RECOVERED	HNE	DEPTH IN FEET	PIEZOMETEN	HANNE LOG	HI	Nu BACKGRO					
1	3,0	0.0	CON	CH.	- 3	PIEZ	S.R.A.	A APRICIA	100	DESCR	DTION .			
-3/				/ 0				CLASSIFICAT	10%	DESCR	FILON	- LA SANDARA		
/					07				20080000					
/	/					-				FILL	- Alles Marie			
1/	2.0/	2/	18/	B		1		-	0	<del></del>				
SPT	//	2/2		/-		1		SAND -	brown, fi	ine; little	silt; cli	nker ast	1, 1	
/	/					1			gravel		-mary			1310
_	/					-			NOTE. Dei	ller repor	te driving	through	mod	rk
/	/		/			- '	0			concrete	CS CITYING	ciii oagii	100	
2/	4.5/	3/	18/	8/	5 -		0.	GRAVEL	LY SAND -	brown; tra	National Control of the Control of t			
SPT	1.0	1/5	16	10	0	4				lens of sar		el, with	CO	
/	/		/			4	.0.		debris, t	ournt wood	ash			1315
3/	7.0/	14/	118/	7				SAND -	light bro	own, fine t	to medium;	micaceou	IS 5	and:
SPI	1/	15/5	/	/-	] [		٠.			utside of				
/	1/		/		1								-	
	1		Y-								- 1- 1			
	/		/				17							
4/	9.5/	5/1/	118/	3/	10	SERI	1/	SAND -		ine to medi	ium; trace	coarse a	at t	op;
SPI	11.0	1/9	1/16	0		SEA.	1:3	1	oil satur	rated				
/	1/		/	3/		몵			······································	*	The state of the s	·		
5/	12.0/	1/2	18/			1330								
SPT	13.5	2/1	2/16					SAND -		ine to med	ium; oil sa	turated	12	inch
/	/		1/				179	STIT		ne gravel ith organic	lone			
/	1	1	1	1		f		OIL!	oruwii, W	ich ordanic	- Tells			
/	/		/			П								
6/	14.5/	2/2	18/	8/0	15 -	П		SAND A		brown, fir	ne: laminat	ed: 10"	of	
150	1/140	1/	3/10	10	+	¥.	排		slough a	t top		-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
/	/		/				1.5 ( 3.	END OF	HOLE - H	Nu measure	d up to 15	inside t	the	hole.
1	1/	1	1/			П				0 at top				
4	/		/			Н			0 5 5 - 1	20	a Lieuwa	£ L_1-		
/	1/		/			H			2.5 Teet	of heave a	at Doctom C	note.		
1	1	1	1	1	1	H			hole bac	k filled u	pon complet	ion.		
1	/		/						betonite	seal 9.3'	- 10.0'			
1	1/	1	/		20				betonite	also added	d below			

	N OF BOR		2	2 2 3 5 5 5	124	.2	= >/12	and and	эов на 8546	CLENT URS	/METRO	BORING		<u> </u>
	ING CO		HTUC	PARK.	TRAN	SFE	R S	TATION	DRILLING METHOD	METRO ETS-7 : HOLLOW ST		/_/-3	003	
		100		7-38		11		WAY	DESILEMENT ARE INCO	. Hotton of	Ears Modern			
		PANT.	\	1	Q19	1		WAI						
KIN	G CO		2	. 1	1 /3	81			SAMPLING METHO		PENETRAT	ION TES		
5. F	ARK		1		*	376	1		140 1	b. SAFETY H	IAMMER	1	TART	FINISH
	NSFE		1	\	13	-376 FENC	E		WATER LEVEL	10"	111		TIME	TIME
57	ATIO	N		1	)	*	_	1	THE	1440	1500	14	120	1520
				1.	,	1	Yanan	N	DATE	2-10-84	2-10-86		DATE	CATE
MUM	SUR	FACE				ELEVA	TON	18'	CASING DEPTH			2 -	10-86	2-10-8
2	뿔포	PER	MCHES DRIVEN	3/	z ti	ETER	907		GRAS	S COVER				
SAMPLE	SAMPLE	BLOWS PER B INCHES	INCHES DRIV INCHES DRIV	3/3	DEPTH IN FEET	HEZOMETER	SRAPHIC LOG	HMU	BACKGROUN	(D = .B.				* ***
3		0	¥ 2	/ 5				CLASSIFICATI		DESCRIP	TION			
/			/		0_	4	0 0	CORRIG	FILL S OR CONC	RETE in upr	per few fo	et		
/	/		/			1	00	COSSIL	S ON CONC	vere in abt	VEL TEM LE	* *		
/	/_,		/			1	10							1.11081
/	/		/			-	1							
1/	2.5/	2/4/	18/	8/				SAND -	- brown an	d reddish	yellow; fi	ne, som	e sil	t
SPI	4.0	14/3	16	7-			1.		qlass an	d brick fra	agments, i	ron sta	<u>ininc</u>	
/	/		/			-			) N N		minus and a second			
2/	5.0/	1/	18/	8/	1 _ 1	1	Ė							
SA	16.5	11/	14	/-	5		(A)	DEBRIS		board,?asl		ncrete	fragn	
/	/		/		1	-	1.		sand, ir	on staining	9		-	1440
/	17		1	1						water the second				×
_		ļ., ,		ļ.,				SILTY	SAND - br	own, fine	to medium;	qlass	fragn	nents
3/	7.5/	15/	18/12	8/						-	yper yett mannette			1450
/ <u>S</u> F	1.0	1	/	1			1111	SAND	- black, f	ine to med	ium; oil s	aturate	d	
_					Ţ	-								
4/	10.0	3/5/	18/	4/	10-	고		CAND	black f	ine to med	iumi oil e	atumato	d	
/SP	/11.3	-	/	1	1 1			SAND		y diesel);				s,
_	/								trace st	nell fragme	nts			1550
/	/		/					-	ery the same	AND AND TAKE			_	
5/	12.5/	1/	118/	7/				SAND	- black, t	fine to med	ium; oil s	aturate	d	
SP	1/	13/	1/18						SILT - da	ark brown,				
/	1/		1/						trace or	rganic	- Complete - A			1510
6	15.0/	2/	118/	3/		H								
50	//	/3/	/18	/-	15		10							
/	1/		1	1		1	1		- black, 1	fine to med	ium; oil s	<u>aturate</u>	d; si	ome
-	1	1	1				:[:]:		Silt in laminate	thin beds	up to b.	Dr.OMIL.	poor.	ı y
/	/		/					END O	F HOLE 16	5', HNu 4	in open ho	ole.		
/	1/	1	1/	1		Ц			little	cuttings fr	om hole, r	<u>probable</u>	voi	ds
/	1	+	1	1		H			slougher slougher	te seal 8.8 d to seal,	backfiller	d with s	and	
10.732		111	1 /	1		Н	1					- 1, 1 -11 -		WATER OF
/	/		/	1					and gray	vel to surf	ace	1011110		

1	VI	NG CO	SING SING	HTU E	ADV	TDAM	CEEC	CT	ATION	PROJECT NAME	CLEM UR METRO ETS	S/METRO	7-3850	0
ı		N SKET	· 20	om !			1		MARG.	DRILLING METHOD		TEM AUGER	7 000	
			1		FEA	CE	1	w	AY		HOLLOW 9	TEN AGGER		
			1	7-385	100		1	/				ý.		
-				19.7	18 4	/		1				PENETRATION	TEST,	- 4 - 00
		. Co.		Light	151'	×		1	·	140 lb	. SAFETY H	AMMER		1 2000
	S.P.		_	1	1	*			1	WATER LEVEL	0 6/	1 12 5/	START	FINISH
		VSFE.			1 6	<b>)</b>	*		1 .	TIME	9.5	11.5	1530	1630
				AVINO	17.	3803	1		13	DATE	2/10/86	1610	DATE	DATE
	DATUM	SUR	FACE				ELEVAT	ION	16'	CASING DEPTH		7760	2/10/86	2/10/8
1 1	Sample		85 to	INEN /	7 L		5	80	SURFACE CON	GRAS	S COVER			
	May A	SAMPLE	BLOWS PER	INCHES ORIVEN HECOVERED	HETHANE	DEPTH IN FEET	PIEZOMETER	SRAPHIC LOG			ROUND = "B	41		
	SAMPLE	S	# *	NCHE S	力量	- 2	31	SRA	CLASSIFICATION	su.	DESCR	77100		
I				7		0 -			CEASSIFICATIO	20	DC SUR	- 104		
						Ϊ́	]				FILL			
	/	/		/		-	-					e; some fine	to	
, 1	1	2.0/	4/	18/	B			3.50		coarse gra	vei	- 9		
DRILLER UL	SPT	3.5	4/3/2	16	/-			i.i.	SILTY S	SAND - bro	wn with ir	on staining,	fine to	
11	1	/		/			]	11.		oarse: so				1540
DRILLER		/_/		/		1	+							
DRI		/		/			1			<u> </u>	-			=
ſ	2:/	4.5/	4/1/	18/	8/	- 1		0.0	SAND A	ND GRAVEL	- brown, i	ron staining.	medium	
	SPT	16.0	11	16	/-	5	1	. 0.	1	co coarse	sand; some	gravel		1545
	/	/		/		-	4	0.		····		r		
	3/	7.0/	7/7/9	18/	1/	t	1		SAND -	brown wit	h iron sta	ining, fine t	o coarse	
	SPT	18.5	17/9	/12	1-					some sand	stone frag	ments: trace	fine gra	
	/	/	-	/			SERI	7000			<u>ne to medi</u>	um; <u>shell</u> fra	agments,	1550
		-		/	1/	<b> </b>	DEM	::::		oily HNu 1 PPM	in hole		70°,	1550
				/	1-	ļ	$\nabla$	41.	A	1100 2 111	in note			
	4/	9.5	3/4/7	18/	4-6/	10 <sup>-</sup>	MT AT		SAND -			se: oil satur		
	SPT	/11.0	/7	18	/-	10	154					n silt band.		1555
3	/	/		/			7	1.	-	grades to	SILTY TIN	e sand at bas	е	1555
	5/	12.0/	1/21	18/	21	1		1:		110000		HOLLOW THE STREET, AND AND AND AND AND AND AND AND AND AND		
B 6	SPT	13.5	1/2/3	/18	/-				SAND -			se: oil satur		
CHKD	/	/		1/			13 L.	711	CTIT			mes silty at		
	4	/		/	-/				SILT -	nedium br		organic lense	es and	1600
98	/	/		/	1/0	1 1		#	INTERB		112			1000
2-10-86		14.5/	1/11	18/		15	4	111		ND SILTY S	AND - dark	brown, fine	to mediu	m:
2-	SPT	16.0	14/8	18	11 5 7	15				interbedd	ed and int	erlaminated;	oily at	top
DATE	/	/		/	4.5			1111	END OF	HOLE			was an an	
0	7	1		17		1 1			LIND OF	bentonite	seal 8.3	- 8.8		
	/					1				hole slou	ghed to 9.	0'		
	/	/		/			_					tings, surfac	ce mater	ial
	/	/		/		1	-			to surfac	e.			
	/	/	-	1/		1	+		-			www.		
		/	1			1	1							

7 8 - 70	N OF BORBAG	OUTU D	ADV T	DANCE	-En	CTAT	TON	PROJECT HAME	6 CLEM UR METRO ETS	S/METRO	7-3900	
-	IG CO. S	OUTH P	ARK I					DRILLING METHOD	HOLLOUC	TEM AUGER		
	A. 2100	11 34		1	w. m	AKG	VAY	UMILLING ARTHOO	. NOCCON S	1211 110021		
	7-3900	23/	/		1	EDG	E OF					
	7-3900	<b>©</b>	X	FENC		13	AVEMENT	SAMPLING METH	o: STANDAR	D PENETRATI	ON TEST	
EDG	E OF	1/200		LENC	E	3	1	140 LB	. SAFETY H	AMMER		
	EMENT	m/ "	7-3	· co *			1		1 200	1 22 51	START	FINISH
	NSFER	1 2	<b>)</b> -		1	5		WATER LEVEL	0850	10.5'	0815	0930
1 5	TATION	1.	FICH			X	1	DATE			DATE	DATE
	CUDEAC	Г					16'	CASING DEPTH	2-11-86	2-11-86	2-11-86	2-11-80
DATUM	SURFAC		- /		LEVATIO	S	SURFACE CON		SS COVER	<u> </u>	L	
SAMPLE	SAMPLE DEPTH DWS PER	MCHES INCHES PRIVEN	IN /	DEPTH IN FEET	PIEZOMETER	SHAPHIC LOG		***	GROUND = "	B <sup>11</sup>		
1	SAMPLE DEPTH BLOWS PER	INCHES PRIVES PR	CH <sub>4</sub>	10 11	P1£20	GHAP						- Vinis
1 3		/ ± =	10			C	LASSIFICATI	on FILL	DE 9CF	PTION		i co
11/		/		0 T		: ' '		[ ] LLL				
1		1/					SAND -	brown, f	ine to med	ium; some	fine gravel	-
1/						;ö. T		200 MINORE	Santa			-
3 /		1/		-			Spin, Manne					
Danler CM	2.5/14/	17/	3/			0.	SAND -	brown, f	ine to coa	rse; little	e gravel; g	ass,
5 SP	/ //	1/12	/-			0.		wood, ot	her debris	; iron sta	ining:	
/SP		/	2/					odor not	iced, vani	lla or sol	vent	084
° K	/ //	//-	V-	+		0.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		**		-	
30	5.0	18/	B	5			SAND -	- brown, f	ine to coa	arse; some	gravel, fin	9
137	-	41/	1		1			to coars	e; cobbles	s; glass an	d other deb	ris;
/				[	]	q		iron sta	in		400 - 4me - 3000 -	085
/		/		-	-		· Anti-					
3	2.5 7	18/	8/			1	SILTY	SAND - br	rown, iron	stain; sil	ty in beds;	
138	1 / 1/1	/11/12	/-					charcoal	, olass de	ebris: noti	ceable odor	005
		/	11/		SEAL	V///		solvent	possibly;	contact at	base	089
<u>/</u>	10.0/5	18/	B	1	4		SAND	- dark ora	v fine to	medium: r	ed and blac	k
1 SP	115	8/9/14	1 /-	10 -			JAND	volcanio	clasts;	trace silt;	odor of va	milia.
3/	17	/			V		,	possible	e solvent		<u> </u>	09:
1/		/			₩.					<u> </u>		
6		/			8:50	Fire						
E 5	125/1	18/	1-7		22.54		INTER	BEDDED SI	LT AND SAN	D - dark gr	ay brown; p	oorly
1/31	/ /	2/12/18	/-			liii		laminat	ed; organi	c silt lens	es; plant	
1 1 1 1 1 1		/						fragmen	ts; sand,	dark gray b	rown, fine	to 092
98/	Nes di	1/2						medium	<u>grained; o</u>	dor noticea	ID16	09
2-11-2	15.0	1/1/18	1/-	15 -		in	INTER	BEDDED ST	LT AND SAN	D - dark gr	ay brown, p	oorly
	17		1		Option I			laminat	ed; sand,	dark gray,	fine to med	num;
DATE					Ž.			odor fa	<u>int or qon</u>	е		09:
		1/			Н		END 0	F HOLE	te seal 8.	5 - 9 0' 1	nole sloughe	d
/	XX	-		+	H			helaw s	eal, backf	illed with	cuttings	
/							NOTE	- HNu is	acting up.	I do not t	rust any of	its
	11	1						reading	S .			in the second
/	//				Н							
				20 .	L							

	OF BOR		ITH P	ARK T	TRAN	SFER	ST	ATION	PROJECT NAME	METRO ETS	JRS/METRO 5 - 7		7-3950	0
	N SKETC							RCINAL		m: HOLLOW S		R		
	1	2	22.0	7 1		1	ED	GE OF						
	1	9	7-39	50	*		10	AVEMENT	Daniel we ve	HOO: STANDAI	OD DENETR	ATTON	TEST	
TOAK		1	47.5	- 1	×				140 LB	. SAFETY	HAMMER DR	OPPED	30 INCH	ES
TRAM	TION	1	1			FE	NCE	1					START	FINISH
		1	, e			+		1	WATER LEVEL	8.01	13.		TIME	TIME
EDGE	PAVE	MEN	1				1	1	TIME	1040	105	0	· 1015	111:
				7-3	900			16'	CASING DEPTH	2-11-86	2-11-	86	2-11-86	
DATUM WO	30K	FACE	± /	- /		ELEVA		SURFACE CON		SS COVER	L.			L
SAMPLE	SAMPLE	BLDWS PER 6 INCHES	INCHES DRIVEN S E RED	IIN /	OFPTH IN FEET	PIEZOMETER	GRAPHIC LOG				And the second of			
15	SAL	5 IN	INCHES DRIFT RECOVERED	CH 4	2 %	PIEZG	CARP				22.22.23.23		Q.1017-0.15	
3			= =	/ 0	_	-		CLASSIFICATION		LL DES	CRIPTION			
		1			0 7	1		li i						
/	/					-	-					× ************************************		<del>) - 1</del>
7										***			20.55	
/														
1/	1	30/22/	18/	2/				SILTY		rown, fine t and wood		um; co	ncrete	103
1301	4.0	79	/			1	1:1:	•	rragmen	c and nood				100
/			/	ļ.,										
2/	5.0	3/4/3	18/	6/-	5 7			STITY	SAND - as	above; a	Bundant V	ood d	ebris. wi	re
SPI	6.5	/3	1							, , , , , , , , , , , , , , , , , , ,	<u>Duridanie .</u>			104
/														
/	/		/			Η.	11		WW				~	——————————————————————————————————————
3/	7.5/	4/1	18/	-/	1 1	W.	1.0	SAND -		own, mediu			rick, gla	SS
SPI	190	1/3	19	/-		104	0	:	fragment	ts; trace	fine grav	/el		105
/	/		/	16/-		-	12						100	
4/	10.0/	4/7	18/	2/	10	SEA	Y	1						100
SPT	11.5	/11	/18	/-	1			SAND -	dark gra	ay, fine t ay, red vo	o medium: lcanic c	asts	e coarse, ouartz:	
/	/		/							int oil od		40009	7741 743	
1	1/		/	2/			7.5	1						-
5/	125/	1/2/	18/	10				STIT-	brown s	andy in be	ds. poor	y lam	inated. o	rgani
SPI	//	1/2/3	1	/-		w.cohas.			laminat	ions; wood	fragment	s and	plant fi	bers
The state of the s	1/		/							Committee of the contract of t	week to the same of the same o			110
1	/		/	-		H				1, p				
/	/		/		15	į		SILT -	as abov	e; woody f	ragments	at ba	se; top 6	inch
11	15.5/	3/5/	18/	1-/		200			sand -	as above;	faint su	phur	odor	100.00
6/	17.0	/3	18	1			.4.	END OF	HOLE:	Total dept	h 16.5 fe	eet in	side auge	r;
SP	1 /		/								•			
SP	/	*	11 - 12			Ц			18 1 con 11 con	bentonit	e seal 9	,5 - 1	0.0'. ho	e
SP	/		/			1 1			CIMIMANA	d holow or	שמכח ובנ	fillod	with cut	ttinge
SP			/		-	H			to surf	d below se ace; total	eal, back depth ½'	filled less	with cut	ttings ned,
/SF									to surf	d below se ace; total e heave in	depth ½'	filled less	with cut	ttings nned,

	TNG C	Carlotte .	טדוור	DADV	TDA	US C.E.	D C.	JOB NO. 8546 CLIENT LIPS/METRO BORING NO.	1000
	ON SKET	CH \			Y.	13rc		MARGINAL DRILLING METHOD: HOLLOW STEM AUGER	
	LIGHT	- (3)	) 		× /		1	FOGE OF PAVING	
	P037	-1-3	7 × 39	21.0		*	6 NC	SAMPUNG METHOD: STANDARD PENETRATION TEST	
			10	K		1	¥.	140 LB. SAFETY HAMMER DROPPED 30 INCH	ES
	RANSA		1	152	.0'		X	STAT	T FINISH
	TAT IC DGE		VENE	7 7	<b>6</b>			WATER LEVEL 10' 14.5'	I IME
2	DUE	DF TA	* E /7k/	1	7	3950	0	N DATE 2-11-84 2-11-84 047	
DATUM	SUR	FACE		***************************************		ELSYATI	iON.	N DOTE 2-11-86 2-11-86	8L 2-11-8
	1		NEW /	3/		17.7	651	SURFACE CONDITION GRASS COVER	
SAMPLE	SAMPLE	BLOWS PER	DRIVEN	HIN	DÉPTH IN FEET	PIEZOMETER	SHAPHIC LOG	HNu BACKGROUND = "B"	
/ Talle	S		INCHES DAY PRECOVERED	/ <sub>1</sub> 7	3 %	Old .	CHA	CLASSIFICATION DESCRIPTION	
1	1		/		ОТ				
_	/		/					FILL SILTY SAND - brown, fine to medium; little f	ine to
/	/		/					coarse gravel	me co
/	/		/						
/	2.5/	16/	18/	2/			0:0	SAND AND GRAVEL - brown, iron staining, medi	um to
SPT	//	14/12	/12	/-			0	coarse; gravel fine to coarse; glass	UIII LU
/	1		/			]	0.	and other debris	130
1	5.0/	3/	18/	17/	-	-			
SPT	165	15/8	14	/-	5			INTERBEDDED SAND AND SILT - brown and gray,	fine to
/	1/		/					medium; wood debris, plastic debris	131
/-	/-		$V_{j}$						
/	/		/			1	1		
3/	7-5/	1/3/	18/	2/				SAND AND DEBRIS - black, fine to medium; pap wire debris	
SPT	9.0	16	17	/-		-		wire debris	134
						SEAL	11/17		
4/	10.0/	30/4/	18/	3/	10	IV	1111	SAND - black, fine to medium; some silt; las	+ 6 in
139-	115	174	/12	15/		W1		of sample wood fibre, straw, concrete	
/	/		/	/15					140
/	1/		/			1_	:::		
51	12.5/	6/	18/	8/	1			INTERBEDDED SAND AND SILT - dark gray to dar	k brown.
SPI	//	13/5	/					fine to medium; poorly laminated; moi	st;
/	1/		1	1				wire in tip, fiberous debris at top	141
1	1	<del>                                     </del>	1	2/		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-		
/	/		/	20%	15 -	13:51			.,
1	1/		1/	1				END OF HOLE	dina
1	//	+-	1	+			-	bubbling sound from hole, methane rea off 4% scale, variable, 20% ± at base	
/	/		/					hole. Pulled out of hole, hole slough	edb
/	1/		1/			4		to 10', bentonite seal 9.0 - 10.0', us one full bucket, backfilled hole with	ed
/	X	-	1	1		+		cuttings, bentonite to surface	
/	/		/						
		1		1	20	1	i		

	N OF BO		NITH.	חאחור	TDAM	CFF.	) com	TION	PROJECT NAME		RS/METRO		7-4037	
	NG CO		UIH	PARK	TRAN	SFE		ARGINAL		METRO ETS			7-4037	
					*	,	1 W	AY DGE OF	DRILLING METHOD	HULLUN	STEM AUGER		(in the last of th	
		1				X	1.	PHYING					эн гэх үүлжэгч	(6 tt = 10
			PAVI	EMEN	7	-	1	1	SAMPLING METHO	∞: STANDAR	D DENETDAT	TON T	TZ	
		30000					1	1		SAFETY H				2
		LIGH POS	1 /3	HO 7	- 4037	\		1	100 LD	. 200	TIPEN DIVE		START	FINISH
			,		37'	X			WATER LEVEL	11'	16'		TIME	TIME
				1	7		FEN	E T	TIME	1520	1540		1420	1600
				1	7-	1000	X	N	DATE	2-11-84	2-11-86		DATE	DATE
DATUM	SUR	FACE				ELEVAT	1011	6'	CASING DEPTH				2-11-86	2-11-8
J'lames /		5	IMCHES DRIVEN E RED	IIN.				RFACE CON	GR GR	ASS COVER				
3./2	SAMPLE	BLOWS PER 6 INCHES	INCHES DAIN RECOVERED	=/	DEPTH IN FEET	PIEZOMETER	SRAPHIC LD0	Н	Nu BACKGRO	UND <1.0	ALLE WALLEST AND A STATE OF THE			2000
1	20	80	CHES V	150 150	2 2	PIEZ	1 - 1	والمال ما الماليات	L.		2			
<u>a</u>			7			-	1	LASSIFICATI	FILL	DESCR	PION			
/	/		/		0 T		1.0	SAND -		ine to coa	rse; some	grave	]\$	
/	1/		/				L		fine to	coarse: de	bris			- Approximation as
_	/_		/			1					<u> </u>			
/	/		1/		1					100000				
-	2.5/	10/	18/	1/			-	SAND -	hrown m	edium to c	02000 51	me ar	avel	-
501	1 /1 .	22/1	1/-	/-				SUID -	fine to	coarse: co	ncrete at	tib	<u> </u>	
/	/	1	1				12:		brick an	d other de	bris			1455
	/		/			I	1:4							
2/	5.0/	113	18/	1/	5									
/SP1	6.5	/12	8	/-	3			SAND -		edium to c			avel.	
/	1/		/			7	-	****		ace silt;	Drick Trac	ments		150
	1	1	1		1	1	13		and othe	r depris				1231
/	/		/				00							
3/	7.5/	10/	17/	2/			. 9.	SAND A	ND GRAVEL	- brown,	fine to co	arse:	brick	and
SP	19.0	150	16	/-		1	00		shell fr	agments: o	ther debr	is	-11-1	
/	1/		1/	15/	1	-	00		beyond	sal at 8.0	feet, aud	jer ar	illed	150
4	10.0/	4/	18/	10		-	00		Deyona	01-010-01-01-01-01-01-01-01-01-01-01-01-				100
SPI	/	19/1	13	1/-	10		30	SAND A	ND GRAVEL	- dark br	own. medi	ım to	coarse	
1	1 /	1	/			7.	00	,	wood deb			7		152
/	/		/			ISY	000							
1	1/	1	1/				- V////					W		
4	10.5	1-7	/	1			1111	TAITES	CDDED CALL	D 6110 CT1	V DEND	LEGAL CO.	-	
3/	12.5/	3/5/	0/18	10/			liii-	INTERE		D AND SILT e; fine be				ne
SP	14.0	1/	0/18	1			137			e; iine <u>be</u> ne gravel	us, pour IV	i dili []	a ceu;	153
/	/		/						01400 11	ne graver				
6	15.0/	5/	18/	3/	1				CONTROL OF THE PROPERTY OF					
15p	1/16.5	15	7/18	/-	172	and Friench		SILT -		own and gr				
/	1/		1/			_	1111		at top;	poorly lam	<u>inated; wo</u>	ody d	ebris	154
_	X	+	1	1		=	=	general property			36 1,7 3000			
1/	1/		1/	- Common					The same of the sa				- 11	
7/	17.5/	2/	118/	1	1			SANDY	SILT - da	rk brown,	fine: trac	ce woo	dv debi	is:
SF	1/19.0	5/	6/18				11111			medium san				155
8	19.0	16/9	18/	1										
151	1/201	5//8	/18	-				SAND -		y, fine to		volcan	ic clas	
1	/		1/	3/	120		1,00		and quar	tz; trace	SILL			160

KI	NG CO	. so	UTH P	ARK	TRANS	SFER	ST	ATION	JOB NO. 8546 PROJECT NAME	CLENT METRO E	URS/METS-7	TRO		ис но. 7-4037	<u>. 2 ur)</u> 7
LOCAT	ION SKET	СН							DRILLING METHOD			UGER		***************************************	
									SAMPLING METHO	∞: STANDA! . SAFETY					ES
											1			START	FINISH
									WATER LEVEL	11'		16'		TIME	TIME
									TIME	1520		540		1420	160
		-	www				nac and		DATE	2-11-86		11-84		DATE	DATE
DATUM	SURF	ACE				ELEVAT	TON	16'	CASING DEPTH				-	2-11-86	2-11-
SAMPLE SAMPLE	SAMPLE	BLOWS PER	INCHES DRIVEN RECOVERED	NUMBER OF RINGS	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG	SURFACE CON	7470071114400,47	DES	CRIPTION	*	- Constant		
/							737								
1					1 -			END OF	HOLE - to auger, 3						
/	/								12.0 feet with cutt	. sloughe	ed below	w seal	, bac	kfille	ed
/						1	- Associate		WICH COCC	ings co	Surrace	-0 0-0	,		
/	1				1		the annual transmitter of the state of the s				10001				
/	/		/			1	-					***************************************			
1	7		/				-							***************************************	
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7	/		/							-100-100				×	
1	//		/		1										
/	7		/		1 1		1								
/	1		1							j.w.					
/	1		/			1									
1	17		17			1				the state of the s				-	
/	17		//			1								-	
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7	17		1											adali .	
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/	V,		1		+ +	-									
/	1/		/		1 1	4									
/	4		/				- Marian - Samuel				· · · · · · · · · · · · · · · · · · ·				

	OF BOR		UTH P	ADV T	DAME	EED	STA	TION	PROJECT HAME	6 CLEMT UR METRO ETS-	S/METRO	806	7-4095	5
	H SKETC		UIN P	AKK I	KANS			RCINAL	The state of the s	HOLLOW ST			1-11	
	1		×			1.		AY						
	- )		-4095		NCE		1							
		1.	Ø¢		¥-		1		SAMPLING METH	∞: STANDARD	PENETRAT	ON TE	ST	
PA	NEM	INT	1	15.6	¥			1	140 LB.	SAFETY HA	MMER DROPF	ED 30		man di la constanti di la cons
			551	128'				1					START	FINISH
		1	THOL	# 10					WATER LEVEL	11'	15.5			
				7	- 403	7	X	1	TIME	0912	0943		0830	1000
				1			*	N_	DATE	2-12-86	2-12-86		2-12-82	
ATUM	SU	RFAC	1			ELEVATIO		17 SURFACE CON	CASING DEPTH	C COVER			P. 15 (5 5	~ 1~ 0
2	w =	ES ES	Denven RED	NIN /	* t	FTER	001		GKAS	S COVER	74001	···		
/ E	SAMPLE	BLOWS PER	S S S	=/_	DEPTH IN FEET	PEZOMETER	MANHIC LOG	HI	NU BACKGRO	OUND < 1.0	("B")			
1		2 0	INCHES DRIV	/ <sub>5</sub>		ã.		CLASSIFICATI	ON	DESCRI	PTION			
7			1/		A				FILL					
			/_		OT		-	SAND -	brown, me	edium; some	gravel		W. 2007/2010/00	
/			/		-			<del></del>			, , , , , , , , , , , , , , , , , , ,			
	20/	12/	18/	1/			1	SAND -	brown f	ine to coar	se: some	fine c	ravel:	
SPT	3.5	121/	1/8	/-		1		STATE	brick, g	lass, metal	fragment	S		0900
7	7	71	1 /			1								
/			/											
2/	4.5/	5/2	18/	1/				0.54.5			3.7	F. *		7.1
SPT	6.0	/3	16	/-		9		SAND -	mottled	brown. dark e gravel; a	vellow.	line t	o coar	091
/	/		/		5	1			Some Time	e graver, a	abundant o	1022		
-	1		1		1	1				WW. 3	11			
/			/			1								
3/	7.0/	1/	118/	1/				SAND -		; glass, me		ossib	e gyps	um 091
SPT	85	/	/10	/-		-			wallboar	d debris; o	odor	·/·········		091
/	/		/		Ļ	+				9-1-111K				21919 1
4/	9.5/	11/	118/	12/	i	1	1.00		water and the second second		*			
1500	/11.0	24/2	3/13	/-		8	11	SAND -	as above	; brick				
/	1		/			WL								04
/	/		/		10	Joy 12		SAND -	dark gra	y, fine to	medium; t	race :	silt;	093
/	1/		/			\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>			volcanic	and quart	z clasts;	MEC		033
_	/	1	Via	100			///	SAND	ac ahouo	; 2 inch s	ilt interh	ed at	tin:	
5/ 5P1	12.0/	15/	18/	8/-		5 EAT	1	JANU -	trace or	avel; poor	ly laminat	ed	F 1	
/	1	1	/	1										
/	/		/							WIE 25 - 20 - 2				
6/	14.5/	2/	18/	8/				66415	Jane 1	<i>E3</i> +	A AA31044	ton c	inchas	
/3PT	16.0	1	9/18	1		3	111	SANU -	dark bro	wn, fine to	o coarse;	h ccc	acional	
/	/		/	1/0	15-	1		3171 -		lamination		II UCC	us i Oilu I	094
-	1		/	1	1				or damic	Tam Tide TOIL				
/	/		/				111							
7/	17.0/	16/	18/	3/		4	Hil	INTERE	BEDDED SAN	D AND SILT	- dark gr	ay, f	ine to	000
SP	T 18.5	1"	14/18	1/-	1	Ħ			medium;	laminated;	moist			095
/	1/		/					-		James Comments and Special Spe			- Automatical Control of the Control	
4	/	-	/	+		H			Jun-10-ul					
1 /	1/		/			H	111	-				- promo-		***************************************
/	/			1	i	1 1		4						

KIN	G CO.	SOU	TH P	ARK ]	RANS	FER	STA	TION		METRO ETS-		7-409	., <u>2 ur 2</u> )5
LCA) IC	M SKEIL	-n							ORILLING METHOD	HOLLOW ST	EM AUGER		
									SAMPLING METHO	o: STANDARD	PENETRATIO	N TEST	
									140 LB.	SAFETY HAM	MER DROPPED	30 INCHES	FINISH
									WATER LEVEL	11.1	15.5	TIME	TIME
									TIME	0912	0943	0830	1000
		-							DATE	2-12-84	2-12-86	DATE	DATE
DATUM	SUR	FACE		. Our		ELEVA	TION	17'	CASING DEPTH			2-12-86	2-12-8
7			3 /	3/		£ .	8	SURFACE C	MOITION				
Sample NO PE	SAMPLE	B INCHES	INCHES DRIVEN RECOVERED	IIN /	DEPTH IN FEET	PIEZOSKETER	БВАРНІС 1.00					-	
SAMPLE	3.0	**	MCHES ECOV	/E5	1 -	PIE	1	CLASSIFICA	TION	DESCRI	PTION		
3			1		1	1		CLASSIFICA	, i son	OC SCAN	1107		
		1.34			20 J		III						
8	20.5/	3/6/	18/	1/		*		INTER			- dark gray	; bedded a	100!
SPT	22.0	/18	/13	-		` 			laminated	l'			100:
/			/					il .	END OF HO				
/			1				1111		measured	depth at e	nd of drill	ing 20.5';	
_					1 1				bentonite	seal plac	ed at 11.5-	12.0';	
/	/		/			-			hole slot	ighed below	r seal, back to surface	filled wit	:h
	/		1	1					Cuccings	above sear	to surrace		
/	/		/		25					· · · · · · · · · · · · · · · · · · ·	***************************************		
/	/		/	1									×
			/_		-	4				-		****	
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	1		/	+	-	+			3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		****		
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/	K-		/	-			- Contraction						
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	/		/										
/	1/		1/	1									
	/		/	-	-	Н		-				100	
/	/	-	/										
/	17		1	1					X-ss				
			/										
/	1/		1/			Н	- Contraction of the Contraction						
-	X-	-	4	+	-	Н				ANADES-C			
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1	1	+	1			H							
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-	7	1		/		П							

	OF BOR		UTU -	100					MAN 8546	CLEM URS	/METRO		7-415	0
	G CO		UTH P	ARK	IRAN		-		COJECT NAME	METRO ETS-	The state of the s		7-4100	
	ERSE		1	7	4	10	. ~	ARGINAL OF	RILLING METHOS	HOLLOW	STEM AUG	t.K		
	DM-3		()	1	TR		1 .	AVE MENT			11		-	
		47	X	15.5	1 1	FEN	E.		- Samuel Control of Co			- Timas		
	SFER	,	(0	7-41	50	X		1 5		· STANDARD			The state of the s	
25071 W	JON		1.	1		,	¥		140 LB.	SAFETY HA	MMER DROP	PED 30		
			1	1 /23			1	1					START	FINISH
7	PAVE	MEN	T	1,	0 7	- 40	0		MATER LEVEL	12.5	16'		TIME	TIME
				_		-/0	13	<u>*</u> 1	TIME	1106	1143		1015	120
					7			_ N	DATE	2-12-86	2-12-86		DATE	DATE
ATUM	SUR	FACE				ELEVAT	ION -	18'	LASING DEPTH				2-12-86	2-12-8
- 1				= /				SURFACE CONDIT	ION GR	ASS COVER				
2	SAMPLE	BLOWS PER	DAIVEN	IIN	DEPTH IN FEET	PIEZOMETER	BRAPHIC LOG	Н		ROUND < 1.0	("B")			
136	SAM	# P	INCHES PRECOVERED	15	0 X	IE ZO	RAP							- tomatica management
15			N 5 5	CH <sub>4</sub>		-		CLASSIFICATION	<b></b>	DESCRI	PTION		140	
1			/		0 -				Fil	.L				
			/			4	100				- Albuman - Con-			- Length Colonies
/	/		1/		-	-								
-	/_		V,	7			1						,	
/	2.0/	50	16/	B		***		SAND - H	rown fi	ne to medi	um. twace	fine	gravel	•
SPT	3.5		114	/_						ass, concr				3
/	/		/		}	-	c-,			nches, res				
			Y -			-			lough	nunes, res	c or reco	very r	3	105
/	/		/		1	+		,	Touqu		- Augusto			100
2	4.5/	28/	118	3/			0.00	SAND - H	rown, fi	ne to medi	um: trace	grave	1:	····
SPT	16.0	20/	/	10/-	5	4			rick, co		J. 1, J. 2, 2	3	- 1	110
SFI		/12	1	1		1		-			i.			
/	/		/							-				
3/	7.0/	14/	118/	8/			7.0							
SPT	8.5	12/2	/5	/-			1	SAND - a	s above;	; brick				
7	1		1/		1 1		5.							
/			/				100							
/	/		1				1	NOTE:	bit chat	ttering at	91	- Julianness		
/_			/											
4/	9.5/	16/9	118/	2/	10 -					, fine med				
SPT	11.0	1/1	1/18	V-	-		111	1		clasts, qu	uartz; wet	; napt	na odor	111
/	/		1/	11/		SEA	1	9	glass fra	agment -		14		112
_	/		/	10						with a second				•
5/	12.0	12/1	18	25/				7 4 100 00 00 00 00	DED	A 410 0717	ر داده داد	310 EZ	no to	
SPT	13.5	1	18	1		고 기			DUEU SANI	O AND SILT	- uark gr	lant d	ohris	-
/	/		1/			WI			in silt	THING COW	ind city, t	runc U	CUIIS	113
-	/	-	1	10-29		110		NOTE		eum odor no	oted at 14	1		
/	/		/	1/0	and the same	H		11012	. pecion	an out in	Julia de L			-,
6/	145/	9/	18/	/	1			SILT - I	brown : 1	aminated:	some woods	debri	s and	- neather
1507	14.0	12/1	// /	2/-	15 -	100				laminae:	trace c	ay: na	ptha	
/	/	1	1	1						obably from				114
/	/		/											يبد سي
7/	17.0/	5/	18/	8/	1	П								
SPT	/	8/2	/ /	1/-				SILT -	brown: 1	aminated: v	woody deby	is; ro	ot tui	es:
/	1/	1	1	1					organic '	rich lamina	ations: tr	race of	sand	and
/_	/		/		4				clay	<u>lamination</u> :	S	( ) I ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		11
/	1		/			Ц								
/_	/	,	/					0.71.7	,	1			1 - 1	aparit -
8/	19.5/	1/2	118/	B	20		11	SILT -	<u>prown; a</u>	lmost fine	sand; tra	ice of	plant	
/SP1	1/110	1	8 /18	/-				1	depris,	top 12 inc	162			

10.00	NON OF BO		THE D	DV T	D. K. LIC		CTA	TYON	PROJECT NAME		URS/METRO	BC	RING NO.	. <u>2 yr -</u>
	NG CO		IH PA	ARK I	KANS.	FER	SIF	NIION	-	METRO	EIS-/ DW STEM AUG	ED	7-41	50
									DRILLING METHOD:	INCLE	JW STEM AUG	IEN.	A CONTRACTOR OF THE PROPERTY O	***************************************
													m +	
									SAMPLING METHO	: STANE	DARD PENETE	RATION T	EST	
and the same of th									140 LB.	SAFETY	HAMMER DRO	PPED 30		
										110 00	161	1	START	FINISH
									WATER LEVEL	12.5'	16'			
									DATE	1106	1143		1015 DATE	120
	Ci	IDE A CI	<u> </u>					18'	CASING DEPTH	2-12-86	2-12-86		2-12-86	2-12-
DATU	M SI	IRFAC		- /		ELEVATIO		SURFACE CO	L			?		
SAMPLE	SAMPLE	BLOWS PER 8 INCHES	INCHES DRIVEN EREO	HNH	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG			-12				
SAMPLE	SAME	BE DWS	INCHES DRI	CII 4	ă	DIEZO	GRAP		Marketine					······
3	1		1 3 E	/ 5				CLASSIFICAT	ION	1 10	DESCRIPTION			
1	/		/		20		П	SAND	dark grav	, fine	to medium:	volcan	ic and	
	17		/				LL		quartz gr	ains, 1	to medium: ast 6 inch	ies	- VIIV	120
/			/_											
9 /51	22.0/	5/11/	18/	0/				SAND .	dark gray	fine	to medium.	volcan	ic and	
51	7 23.5	116	/18	/-				SAND			race of pl			121
/	/		/						4441 00 01	<u> </u>	ardee or pr	ane aco	. 13	
/	1/	1	/											
' /	/		<b>/</b> _					END OF	HOLE	+	4 46	·	FL -61	
/			/		25 +	4			heave?: w	ater le	sured at 18 evel at 16'	leer,	5 01	
~	//	1	1								11.0; ber		seal at	
									10.5-11.0	i; hole	filled w	th cutt	ings	
	//	1	1/						to surfac	е				
4	$\mathcal{L}$	-	1		} }	-					,, , , , , , , , , , , , , , , , , , , ,			
/			/		1	1				-				
/	//	1	1		it									
/			/			1				Some one and a				
11/	//		1/		1	4		-			***************************************			
IK-	/	-	1	1	1 }	-				1	· · · · · · · · · · · · · · · · · · ·			
5/	/		/							×	- W			
	//	1	1	1										
e /			1	-	+									
CHKO			/			-	- Indoor						,0000 L	
1	/	1	1	1	1 1					***************************************				To the special or the
	/		/											7-95
ul I	11	1	1/					1.		·		- Marian		
	/	-	1	+	1		The same of the sa							who .
DATE	//		/											
	//		/	1							-H			
/	/		/	-	4				0					
1	//		/			4		-						<u> </u>
K	1	1	1	1										
/	//		/											
		-												

-	ING C		NITH	PARK	TRAN	ISFE	R ST	ATTON	PROJECT NAME	METRO ETS-	S/METRO		7-4250	
-	TION SKET		2	E ENIX	11/31	W.	MAI	RGINAL	DRILLING METHOD		TEM AUGER		1 1200	
	16	7.	4250	*		1	way					0-00-00		
25	-7	357		X	FEA	/CE	1	PAVING		and the sec		AU TE	~ ~	
41	GHT	0	1		7		,	1	The state of the s	∞: STANDARD . SAFETY HA				c
			D OW	335	,	×		1	140 LD	. SAFETT DA	MINER DRUFF	ED 30	START	FINISH
				HOL	VERS LE	EX		1	WATER LEVEL	111	15		TIME	TIME
PA	YEIN	G	(	0			1	1	TME	1415	1447		1345	1510
				7	- 4/3	50	.,	N	DATE	2-12-86	2-12-86		DATE	DATE
CATUM	SU	REACE		4 7		ELEVA		16" SURFACE COND	CASHG DEPTH	COVER			2-12-80	2-12-8
SAMPLE	1 F.E	FE FE	INCHES ORIVEN	HIN'	E 23	PIEZOMETEN	GRAPHIC LOG		GRASS	S COVER	("B")			
12	SAMPLE	BLOWS PEN	INCHES ORICHES PECONE RED	CII 4	DEPTH IN FEET	PIEZON	GRAPH	FIL	U DALKGRU	OUND ∠ 1.0	( B.)		Maria (a)	
/ 3			¥ ¥ ¥	V 5		+-		CLASSIFICATIO		DESCR	TION	-		morrow as above
/	/		/		0		77.7	SAND -	FILL brown, f	ine to medi	um: trace	silt:		
_	1/		1/							e to coarse				
_	V.		/			Н				To see series	×			
/	1/		/				00				- 0. 140m - 1. 2	-		
1/	2.5/	14	18/	8/			:00	GRAVEL	AND SAND	- brown to	gray, fir	ne and	coars	e;
159	1 4.0	20/2	6/8	/1			00		brick fra	agments				140
/	/		1/			Ц	00					raistan-street-re-re		
2	5.0/	12/	18/	17		Н	1			The state of the s			, and the second distances	
SP	1/1	21/	14	/-	5 7		*	SAND -		y, fine to			ne gra	vel;
/	1/	1	1/	1					iron sta	ining; glas	s, concret	te	unc-sui co-	141
/	/	-	1	1/								With a second		
/	/		/	10		П				<del></del>				
3/	7.5/	6/4	18/	1/			(j.	SAND -	dark gra	y, fine to	coarse; so	ome si	lt at	164.17
/SP	1/9.0	1/	114	/-	-				grains;	ce fine gra	ivel; voica	anic a	na qua	142
/	/		/			H	147-		digins,	WEC			- W-	214
4/	10.0/	17/	118/	11/	10									
151	11.5	10/1	2/18	/-	10		135	SAND -		y, fine to				
/	/		/		1	=	=		drains:	ce gravel; indistinct	lamination	ano.qu as at	tip: W	et
	1	1	1/	1		- V			grains,					143
/	/	1	/	14			INI					8 7 32 134	J - L 2	02.
5/	12.5	1/1	18/18	1/		5		SILI -	gray; tr	<u>ace fine sa</u> laminations	and; little : laminate	od 9 W000	debri	s, 144
/3/	114.0	1	100	1					organic	Tamilia Cion.	s, raminace			
/	/		/						· · · · · · · · · · · · · · · · · · ·					
6	15.0/	13/5	18/	11/	15		1.3	0.4315	V		. 1	1. 4.2		
/51	115	/	116	/-		Sylphy U.S.		SANU -		y, fine; to and quart:		at tip	,	145
/	/	- Company	/						YO I CAILLE	and quart	r Alginz	unitary S.P.		479
1	1/		1	11/		П	1. ;							
4	100	12/	1=	1.5			1	CAND	anay fi	ne; some s	il+ lamina	tions:		
1/5	115/19.0	15/	18/18	1/-				SHIND -	laminate	d; poorly	sorted	010113		
	/		1	1						7				
1	/		/	1		Ц								
1	//		/		20	Ц								

	NG C		DUTH	PARK	TRAI	VSFE	R S	TATION	PROJECT HAME	6 CLEM	URS/MI TS-7	ETRO		iing no. 7-4250	<u>. 2 ur.</u>
	N SKET								DRILLING METHOD	*****		AUGER		***************************************	
									SAMPLING METHO 140 LB.					ST	
		ь.							140 LD.	SAFLII	HAPPILE	DROFFE	0 30	START	FINISH
									WATER LEVEL	11'		15'		TIME	TIME
									TIME	1415		1447		1345	151
	CITO	FACE			Т			16'	CASING DEPTH	2-12-86		2-12-56		2-12-86	
CATUM H.g.	SUK		<b>3</b> /	- /	1	ELEVAT	T	SURFACE CON			<u> </u>	<u>!</u>			
SAMPLE	SAMPLE DEPTH	BLOWS PER	INCHES DRIVEN S RED	HN HN	DEPTH IN FEET	PIEZOMETER	BRAPHIC LOG			,					
SAMPLE	, 20 S	BLOW C II	INCHES DRIV	Cil.	ä	PIEZ	S A A								
	20.0/	5/	18/	7 3	-	-	╁──	CLASSIFICATI	104		ESCRIPTION				
SPT	21.5	9/19	1 /	/_	20		<b>**</b>	SAND	- dark gra	y, fine	to me	dium; f	ine a	t top,	
	7.	-		8					medium a	t tip;	trace	of plan	t fib	er	
	-			/0		1	'		F HOLE -						
						]			total de	pth mea	sured	at 17',	3' 0	f heave	2,
								<u> </u>	water le	vel 15'	insid	e auger	, hol	e sloug	ghed
$\leftarrow$		<u> </u>		<del> </del>		-			to 14.5'	ed with	nice S	nas to	surfa	ce	, ,
					25			NOTE	- On start	ing nex	t hole	, auger	foun	d to be	6
K			$\leftarrow$			-			plugged bentonit	with be	ed on	nutting	seal	in th	is
						1			hole. T	There is	, ther	efore, p	robab	ly lit	tle
	/		/	1					or no se	eal in t	this ho	le.			
K-,	K-,		<b>/</b>	<del> </del>		-				***					
$\leftarrow$		-	$\leftarrow$			-		<b> </b>							
					_										
		1	/	1						+			-		
K-	<u>/</u>		+	_	-										
				1											
K-	<del>/                                    </del>	+	<del>/</del> ,	-	-	Н		-							
	1/	1	/	1	-										
K-	<b>/</b> ,	-	<b>/</b>	+	-	Н									
	1/	1	1/	1		П									
K-	<del>/</del> ,	+	<del>/</del> ,		$\dashv$	H									
						Н									
	1/	1	/	1		П									
<u>K</u>	<del>/</del> .	-	+	-	4	H									
1/	1/	1	1/		.	닉	1								

	NG C	400	וודוו	DADV	TDA	VSEED	STATION	JOS NO. 854		S/METRO	7-4300	
	N SKET		חוטנ	PARN	IRA	Contract to the Contract of th	MARGINA			TEM AUGER	1-4300	
	1			*		1	WAY	CANCERO META	D. HOLLOW S	TEM ADDER	THE COLUMN TWO IS NOT THE COLUMN TWO IS NOT	
	1		11	19	1		PAVING					
	1		0,	7-430	0	1	Y	SAMPLING MET	too: STANDAR	D PENETRATION	N TEST	
TRAN	SFER	1		1 40		X	1	- 140 LE	B. SAFETY H	AMMER DROPPED	30 INCHE	S
5TA	TION	1		13.		1	,			1 -5 -1	START	FINISH
			1	,	2-	4250	×	WATER LEVEL	6'	12.5		
PA	VING	EDGE	1	- Þ:- , ,		1220	X	N DATE	0918	1000	0900	1030
DATUM	SURI	FACE		CT. LI	GHT	ELEVATION	u 14.0°		2-13-86	2-13-86	2-13-86	
7	00,1		. ŧ /	7		100	SURFACE		RASS COVER			1
SAMPLE SAMPLE	SAMPLE	BLOWS PER	INCHES DRIVEN HECOVENED	IIN /	DEPTH IN FEET	PIEZOMETER	GRAPHIC LOG		KGROUND < 1.	.0 ("B")	*****	
1 2 2	A S	8 .0w	COMES	Z T T	a z	PIEZ	*5	**			WI	***************************************
3	-		2 2	0			CLASSIF	CATION	0E9CR	PTION		
	/		/		0		<i>ija</i>	FILL				
	/		1/					M				
	/		/			4	SANI	) - dark bro	own, fine t	o coarse; son	ne fine to	)
/	/		/					COAFSE (	ravel; gla	33		
1/	1.5/	12/	18/	1/			SANI	- dark bro	own, fine t	o coarse; son	ne fine gr	avel;
SPT	15.0	148/2	18	/-			3.76	yellow (	linker, gl	ass, wood, br	rick	091
/	/		/									Section
2/	5.0/	18/	18/	17		-				2-14-1-14-14-14-14-14-14-14-14-14-14-14-1		
SPT	16.5	11/	1/5	/-	51		SAN	AND GRAVE	- black,	fine to coars	se; wood d	lebris
/	/		1	1		D			iterial; we			092
/_	/_		/			0918				No		
/	/		/			- 11.8						
3/	7,5/	1/	18/	1/			SAN	0 - dark gra	y, fine to	medium; trad	ce of fine	<u> </u>
SPT		1/	1/16	/-		<u></u>				lant debris		093
/	/		/	8/					***			
4/	10.0/	2/	118/	17	1.0		ĦĬ				eyan sa	
500	//	13/5	1	/-	107		SIL	TY CLAY - b	rown, lamin	ated; little	clay in	
	/		/				HI			bris and orga		
4	/_		<b>/</b> _			SEAL	<u> </u>			last 6 inches	s below 첫	
/	/		/			+	##	organic	horizon		200000000 - M	095
5/	12.5/	2/	18/	1/			SAN	DY SILT - da	ark gray, f	ine; trace c	lay:	
SPT	1	3/8	/12	/-				laminate	ed; volcani	c clasts; abu	undant pla	int
/	/		/					debris			A MENN	100
67	15.0/	9/	18/	11/	1						1-1-1-1	
SPT	1 / 1	22/9	18	/-	157	nici.	SIL	TY SAND - d	ark grav. f	ine grained;	laminated	1;
1	1		1/			eldbridate.			ebris at to	р		101
/	/	-	Y .							<del></del>	1000	
/	/		/			Н	11:1					
7/	17.5/	-/	18/	11/		4	SAN	D - dark gr	ay, fine to	medium: trac	ce silt	
SPT	19.0	1/	118	/-			-			nic and quart		
/	/		1/	E			113	AE HOLE		11 &		
/	1	1	//	1		H				ed to 11 fee backfilled		
/	1/		1/		20 -	1	350	to	tal depth m	easured at 14	4' inside	auger

SUBIERRANEAN

OCATION OF		DUTU DAI	מע דמ	ANCE	n cr	ATTOM	PROJECT HAME	6 CLEM	0110/115	TRO		7-4350	
DCATION SKI		OUTH PAI	RK IR	ANSEL		MARCINAL				AHCED			
	LIGH	T	×		1	WAY	DRILLING METHOD:	HULLU	W STEM	AUGER			
/-,0		2	18	ENCE	. /	PAVING							0-
1.	69		, ,	+		EDGE							
1		\	13	1		10	SAMPLING METHO						
,	/	97	- 4350	7			140 LB	. SAFE	TY HAMN	MER DRO	PPED 3	O INCH	ES
	1	1	-01	1								START	FINISH
PAVEMEN	7	1	57	1		1	WATER LEVEL	NOT	MEASURE	D		TIME	TIME
EDGE			7		×	. 1	TIME					1100	1300
	/		0	1300	×	L	DATE	-	+	-		DATE	DATE
CH	DEACE.		-			13'	CASING DEPTH	1			}	2-13-86	2-13-8
	RFACE	1 - 1	/	ELEV		SURFACE CON		00 000	55			2 11 11 13	1
WPLE NO	5.0	HE DRIVEN	1/	- 5	1 3 1		GRA	SS COV	ER				Allorio III.
TPE	BLOWS PER	HCHES DRIVERS RECOVERED	/	IN FEET	GRAPHIC								
/#E 3 3	20.0	/ 88 /	CH <sub>4</sub>	E S	1								
3		1 3 21	O			CLASSIFICATI	OH		DESCRIPTION		-		
//			0	-	1,04		FTII					· · · · · · · · · · · · · · · · · · ·	
//	-			H	244	-	FILL		312-111				
///				Н	1	Caramana and Caram							
/		Y		H		ACCOUNTS OF THE PARTY OF THE PA					(en) (e.		
//		/		Н				<del></del>	A STATE OF THE STA				
///	1241	10		Bassa .		SAND -	dark brow	m fin	a +a aa	2000	+4200	Fina	
1/2.5	12	18/-	/			SANU -	4.75						
SPT 4.	0//	7/6/		-			gravel; c	eramic	, grass	DEIC	K. CLI	пкег	112
///				Ц	11.5		debris	- T					
/ /	111	V			UI		· · · · · · · · · · · · · · · · · · ·						
2/5.0	-1/2	118/	5		出	CLAVEV	SILT - gr		++1od+	nlant	dobrás	hae	
1311/6	5/	2 14			111	CLATET	organic 1						hatio
///				<b>**</b>	IHI		glass at		10115, 1	00.0.01	aces,	Diocui	114
$ \!$	-	+		H	掛		grass ac	сор					
//		1/		H	#IT					- AMERICAN INC.			
	1.7	- K			A. 1	SAND -	dank anai	fino	to more	lium. 1	aminat	od tx	200
3/75	19	18/18				SAIND -	dark gray fine gray						
SPT 9	0 /	81 0		8			some shell			and qu	iartz C	rallis.	115
//					100		Some She	12 pos	Sible				110
///	1, 7	150		Н	Tit								
4/10.0	1/1	18/	1	0	Шt	CLAVEV	SILT - br	201.00	aminat.	ade abi	indant	nlant	debri
SPT/11	5/	1/18			777	CLATET	and organ						
/		//	-/	5	A- ///	4				15, 1101	LIEU.,	probat	120
		VV	0		ITH	-	root turk	bactons					120
/		/		H	111				-				
	- 1					CANDIC	CTLT		22226-123		72417	7 - 7	
5/12.		18/		4		SANUY	SILT - gra						
SPT /14	1.0	4/18			171		abundant						
/							to fine s		TE JII	Dase;	41dSS	1 rayine	121
		/ / /		$\Box$	11:1		in middle			***			121
6/15.		118	1	5		CANDA	ND OTLE			£2.		nod i um	
SPT/11	5	1814			11:	SANU A	ND SILT -	gray a	ind bro	Wn. TII	ie to i	ned run.	aninc.
/				5)	12		poorly la						
//	- 1						silt for		rete li	ayer pa	italle	i co co	123
1//	1/7	118/		4		CAUD	barrel;	glass		ine to	madd	7. 7.4	
1SPT /	8.0	13/18		3		SANU A	ND SILT -	gark c	ray, f	ine to	megiun	n: lam	mareo
			_		111	<u> </u>	silt laye						124
//				H	1	CKID OF	scrapped						
/		/		Н		END OF	HOLE - ho						100
//				Ц			seal 10.				illied	MILLI	
			15	20 4			drill cu	ttings	to sur	tace			
1//		1/	1	-									

. 00	KING CO		UTH PA	RK T	RANS			TION	PROJECT NAME	METRO E	TS-7		7-4400	)
LDC	ATION SKE	CH		*	FEA		W. 73	WAY	DRILLING METHO	o: HULLU	W STEM A	UGER		
	1				X		/E	AVING						
		1	- 6	- 12	1	X		EDGE	SAMPLING MET	OD: STAN	IDARD PEN	ETRATION	TEST	
		1	مروايد	17-	4400	1		-	140 LB				30 INCHES	5
		1	PLIGHT	. /	<4°	1	1	1		- Junioles III			START	FINISH
	PAVI			- 3	1		1	1	WATER LEVEL	10.7	10.8		TIME	TIME
1	E	JGE-	->/		9		. 4	1	TIME	1520	1530		1400	1530
		والمراشد الت	1			7-43	50	* N	DATE	2-13-96	2-13-86		DATE	CATE
OAT!	UM SUR	FACE_	T = 1	Λ.		ELEVATI	ON ]	2.5'	CASING DEPTH				2-13-86	4.5(5.5)
SAMPLE	E / W. #	5 2	PRINES PRINES	4	±5	13ER	100		GK	ASS COVI	ER			
3/	SAMPLE DEPTH	R.OWS PER 6 INCHES	INCHES DRIN	/_	DEPTH IN FEET	PIEZOMETER	DRAFFIIC LOG	ни	u UNAVAI	LABLE				
IV	and a	M.	A SE	CH CH			5 1	CLASSIFICATION	ON		DESCRIPTION			
	//	1	1	1	0 -					نور جيدية جانب			- VANOVANA	
/	/	_	/		_			-	FILL					
1/	///					1		SAND -	brown, g	rav. fi	ne to med	lium: som	e fine	
Delitter CM	/			-	+			37,110	to coars					
3						1								
11	2.5	1/2	18					SAND -	brown, f	ine to	medium; t	trace sil	t; brick	144
DMILLER S	PT 4.0	1/4	/12			4	7.7	4	glass; c	harcoal	at tip			144
Delt	//		/			1	.0.							
2	5.0/	6/	18/				1111	Sub-doctor ex-	The second second					
3	SPT 63	8/8			5			SILTY	SAND - br	own, fi	ne to coa	arse; tra	ce grave	1;
	//				Г				glass					145
1/	/				3**								1 200000000	140
K	/	_	V)		Ţ	1								143
	//	1												140
73	7.5	5/	18					SAND -	dark gra	y, fine	to medi	um; trace	e of plan	ıt
3	7.5 SPT 9.0	5/1/4	18			***		SAND -	dark gra	y, fine	to medi	um; trace d; volcar	e of plan	ıt
1 .	/ /	1/7/						SAND -	dark gradebris:	y, fine	to medi laminate	um; trace d; volcan	of plan	ıt
1 .	SPT /9.0	1/7/	18					SAND -	dark gradebris;	iy, fine poorly	to medi laminate	um; trace d; volcan	of plan	ıt
4	SPT /9.0	3/4	18		10-				debris;	poorly	laminate	d; volcan	nic grains	ıt
	SPT /9.0	3/4	18		10-	\$ D			debris:	poorly light br	laminate	d; volcan	iture;	t s 150
4	SPT /9.0	3/4	18		10-	불	肼		debris:	poorly light br	laminate own; blo dent org	d; volcan	iture;	t s 150
13 /4 /2 /	SPT /9.0	3/4	18		10-		肼		debris; SILT - laminate	poorly light br	laminate own; blo dent org	d; volcan	iture;	t s 150
er SH	SPT 9.0 1 10.0 SPT /11.2	3/4	18 18		10-	불		CLAYEY	SILT - laminat plant f	poorly light br ed; abun ragments	laminate own; blo dent org	d; volcan cky struc anic lämi	iture; ination;	t s 150
CHKD BY SH	SPT 9.0 1 10.0 SPT 11.1	3/3/3	18		10	불	肼	CLAYEY	SILT - laminat plant f	poorly light bred; abun ragments	own; blo dent org	cky struc anic Tami	cture; ination; ant	153
CHKD BY SH	SPT 9.0 1 10.0 SPT /11.2	3/3/3	18 18		10-	불	肼	CLAYEY	SILT - of fragment	poorly light br ed; abun ragments gray, fi s and l	own; blo dent org	cky struc anic Tami	iture; ination;	t s 150
CHKD BY SH	SPT 9.0 1 10.0 SPT 11.1	3/3/3	18		10-	불	肼	CLAYEY	SILT - laminat plant f	poorly light br ed; abun ragments gray, fi s and l	own; blo dent org	cky struc anic Tami	cture; ination; ant	t s 150
CHKD BY SH	SPT 9.8 1 10.0 SPT 11.5 5 12.5 SPT 14.	3/	18 18 18			불		CLAYEY	SILT - laminate plant for fragment deformate	poorly light bred; abun ragments pray, fi s and l	own; blo dent org ne; lamin amination	cky structions anic lami	iture; ination; ant sediment	153
CHKD BY SH	SPT 9.0 1 10.0 SPT 11.1 5 12.5 3 PT 14	3/	18 18 18		10-	불		CLAYEY	SILT - laminate plant for fragment deformated	poorly light bred; abun ragments gray, fi s and l	own; blodent org	cky structions and clamb	cture; ination; ant sediment	153
2-13-86 CHKD BY SH	SPT 9.8 1 10.0 SPT 11.5 5 12.5 SPT 14.	3/	18 18 18			불		CLAYEY	SILT - of fragment deformated ark gralaminated	poorly light bred; abun ragments gray, fi s and l	own; blodent org	cky structions anic lami	cture; ination; ant sediment	153
CHKD BY SH	SPT 9.8 1 10.0 SPT 11.5 5 12.5 SPT 14.	3/	18 18 18	/0		불		CLAYEY SANDY	SILT - of fragment deformated ark grallamination plant of the control of the cont	poorly light bred; abun ragments gray, fi s and l tion ay, fine ions; vo	own; blodent org	cky struction cky struction characteristics of the control of the	cture; ination; ant sediment	153
OMTE 2-13-86 CHYD BY SH	SPT 9.0 SPT 11.5 SPT 14.	3/	18 18 18			불		CLAYEY SANDY SAND -	SILT - Control of the second o	poorly light bred; abun ragments ray, fi s and l ion ly, fine ions; vo	own; blodent org	cky struction anic lami	cture; ination; ant sediment e silt in	153
OMTE 2-13-86 CHYD BY SH	SPT 9.8  10.0  SPT 11.5  SPT 14.  15.0  SPT 14.  1 10.5	3/	18 18 18 18 18 18	7/0		불		CLAYEY SANDY SAND -	SILT - Control of the second o	poorly light bred; abun ragments ray, fi s and l ion ay, fine ions; vo lebris t, top 1	own; blodent org	cky struction anic lami	cture; ination; ant sediment e silt in	153
OMTE 2-13-86 CHYD BY SH	SPT 9.8  10.0  SPT 11.5  SPT 14.  15.0  SPT 14.  1 10.5	3/	18 18 18 18 18 18			불		CLAYEY SANDY SAND -	SILT - Confragment deformate dark grallaminate plant constant of the confragment deformate dark grallaminate plant constant of the confragment dark grallaminate plant constant of the confragment dark grallaminate plant constant of the confragment dark grallaminate plant constant of the confragment dark grallaminate plant constant of the confragment dark grallaminate plant constant dark grant dark grant dark grant dark grant dark grant dark grant dark grant dark grant dark grant dark grant d	poorly light bred; abun ragments ray, fi s and l ion ay, fine ions; vo lebris t, top 1	own; blodent org	cky struction anic lami	cture; ination; ant sediment e silt in	153
OMTE 2-13-86 CHYD BY SH	SPT 9.8  10.0  SPT 11.5  SPT 14.  15.0  SPT 14.  1 10.5	3/	18 18 18 18 18 18			불		SAND -	SILT - of fragment deformation dark grallamination plant of as above SAND - deformation deformation deformation plant of as above sand pl	poorly light bred; abun ragments ray, fi s and l ion ay, fine ions; vo lebris t, top 1 ark gray	own; blo dent org ne; lamin amination to medicanic and lcanic and	cky struction and clamic laminated; plans; soft	eture; ination; ant sediment e silt in grains	153 154
OMTE 2-13-86 CHYD BY SH	SPT 9.8  10.0  SPT 11.5  SPT 14.  15.0  SPT 14.  1 10.5	3/	18 18 18 18 18 18	70		N		SAND -	SILT - laminat plant for fragment deformat plant cas above SAND - dafragment HOLE - auger:	poorly light bred; abun ragments ray, fi s and 1 ion ay, fine ions; vo lebris top 1 ark gray s total de	own; blodent org ne; lamination to medicanic a 2 inches , fine; pth meas	cky structure anic lami	eture; ination; ant sediment e silt in grains	153 154 155 de

	TNG CO	ske O Cr	NITH D	ADV	TDAN	CEED	STATION	PROJECT NAME	The state of the s	/METRO	7-445	0
LOCATI	ON SKET		יטות ר	MUV.	IKAN	political designation of the second	V.MARGINAL		HOLLOH CT		1	
	1				1	1	WAY					
	1	1 2	-4450	- 13	1/5	ENCE	PAVEMEN		The second control of the second			
		1		39		1	1	SAMPLING METH		PENETRAT		<del>(a a a a a a a a a a a a a a a a a a a </del>
	PAVEL	\		1		X	1	140 LB.	SAFETY HAM	MER DROPPE	ED 30 INCH	
	ED		1	30'			* /	WATER LEVEL	6.5'	10.4	TIME	TIME
			1	1			1	THAT	0900	0950	083	0 101
			. /	-O-	6	7-44	100	DATE	2-14-86	2-14-86	DATE	
DATUM	SUR	FACE		· ~ 1 1 1 1 1 1		ELEVATIO	44 61	CASING DEPTH			2-14-5	86 2-14-8
	1		1 E	7			SURFACE CO	HOITION GRASS	COVER			
SAMPLE SAMPLE	SAMPLE DEPTH	BLOWS PER	INCHES DRIVEN RECOVERED	≅/	DEPTH M FEET	PIEZOMETER	GRAPHIC LOS	HNu UNAV				
1	* 8	200	COMES	CH 4	O.E.	PIEZ	I See Line and the second					
3	1		1 = 2	0			CLASSIFICAT	TION	0ESCR#	*130 <b>8</b>		
/					0 T		<b>.</b>	FIL				
/	1/		1			]	SAND		ine to coar			-
/_	2.0/	91	10		-			coarse g	ravel; bric	k tragment	CS	
SM	1/20	14/	18/4				SAND	- brown, f	ine to coar	se; some f	fine to co	arse
1	1 /		1/						concrete an			088
/							7.7					
/	1/		1/			4 1	146	- manage			- COLUMN TO THE STATE OF THE ST	
2/	4.5/	4/	18/				SILTY	SAND - br	own, fine t	o medium:	some fine	gravel
SP	/	11/2	1/14		5 -				ain in plac			
	1	-		THE PERSON NAMED IN			T. I.	iusty st	alli ili piac	es, Diack	alla Mer a	t tip;
/	/	1	/			וו		glass	alli ili piac	es, black	and wet a	
/	/					1		Commence of the Commence of th	ant in prac	es, black	and wet a	
3/	7.0/	4/2/	18/				SAND	glass				090
3/	/	4/2/	18				SAND	glass - dark gra quartz g	y, fine to	medium; vo	olcanic an	090
/	/	4/2/1					SAND	glass - dark gra quartz g - gray; so	y, fine to rains; mino me fine sar	medium; vo or iron sta nd; laminat	olcanic an	090 d
/	/	4/2/1						glass - dark gra quartz g - gray; so	y, fine to	medium; vo or iron sta nd; laminat	olcanic an	090 d
/sr	8.5	7/2/1	18				SILT	glass  - dark qra quartz g  - qray; so debris;	y, fine to rains: mino me fine san laminations	medium; vo er iron sta d: laminat	olcanic an ain ted; plant	090 d 091
/SP	9.5	1/2/1			10-		SILT	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b	y, fine to rains; mino me fine sar	medium; yo or iron sta nd; laminat	olcanic an ain ted; plant	090 d 091 ure;
/sr	9.5	1 2/2/2	18/		10-		SILT	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b	y, fine to rains: mino me fine sar laminations	medium; yo or iron sta nd; laminat	olcanic an ain ted; plant	090 d 091 ure;
/SP	9.5	2/2/2	18/18		10-		SILT	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b	y, fine to rains: mino me fine sar laminations	medium; yo or iron sta nd; laminat	olcanic an ain ted; plant	090 d 091 ure;
/SP	9.5/	1/2	18 18		10-		SILT CLAYE	glass - dark gra quartz g - gray; so debris; Y SILT - b abundant	y, fine to rains; mino me fine san laminations rown; lamin plant debr	medium; von stand; laminal	olcanic an ain ted: plant cky struct	090 d 091 ure: 093
/SP	9.5/	1/2	18/18		10-		SILT	glass - dark gra quartz g - gray; so debris; Y SILT - b abundant	y, fine to rains; mino me fine san laminations prown; lamin debr	medium; von stand; lamination	olcanic an ain ted: plant cky struct of plant	090 d 091 ure: 093 debris:
/SP	9.5/	1/2	18 18		10-	× × ×	SILT CLAYE	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b abundant	y, fine to rains; mino me fine san laminations rown; lamin plant debr	medium; von stand; lamination	olcanic an ain ted: plant cky struct of plant	090 d 091 ure: 093 debris:
/SP	9.5/	1/2	18 18		10-	× × ×	SILT CLAYE	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b abundant	y, fine to rains; mino me fine san laminations rown; lamin debray; laminat top; soft	medium; von stand; lamination	olcanic an ain ted: plant cky struct of plant	090 d 091 ure: 093 debris:
/SP	9.5/ 11.0/ 12.0/ 13.5	1/2	18 18	70			SILT	glass - dark gra quartz g - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap	y, fine to rains; mino me fine san laminations rown; lamin debray; laminations ray; laminations ray; lamination; soft top; soft per at top	medium; von stad; laminat d; laminat nated; bloomis	olcanic an ain ted; plant cky struct of plant deformati	090 d 091 ure; 093 debris;
/SP / SP- /	9.5 11.0 12.0 13.5 14.5	1/5/	18/18/18/18/18/18/18/18/18/18/18/18/18/1	70			SILT	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap	y, fine to rains; mino me fine san laminations prown; lamin debray; lamination top; soft top; soft per at top	medium; von stad; lamination stad; lamination stad; bloomis  ted; trace; sediment	olcanic an ain ted: plant cky struct of plant deformati	090 d 091 ure; 093 debris; on, 094
/SP	9.5 11.0 12.0 17.13.5	1/5/	18 18	7/0			SILT	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap	y, fine to rains; mino me fine san laminations rown; lamin debray; laminations ray; laminations ray; lamination; soft top; soft per at top	medium; von stand; lamination stand; lamination stand; block is	olcanic an ain ted: plant cky struct of plant deformati	090 d 091 ure; 093 debris; on, 094
/SP / SP / SP / SP / SP / SP / SP / SP	9.5/ 11.0/ 12.0/ 13.5/ 17.5/ 14.5/ 14.5/ 14.5/	1/5/	18 18 18 18	7/0	10-		SILT	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap  SAND - da sand onl	y, fine to rains; mino me fine san laminations prown; lamin plant debray; laminate top; soft per at top	medium; your iron stand; laminated; laminated; bloomis  ed; trace; sediment ine to med; lass; ced;	olçanic an ain ted: plant cky struct of plant deformati ium: lamin ar chunk	090 d 091 ure; 093 debris; on, 094
SP	9.5/ T 11.0 12.0/ 17.5/ T 11.5/	1/5/	18/18/18/18/18/18/18/18/18/18/18/18/18/1	70			SILT	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap  SAND - da sand onl  - dark gra	y, fine to rains; mino me fine san laminations brown; laminations brown; laminated brown; laminated top; soft ber at top; soft y at tip; of y at tip; of the soft sy, fine; so	medium; von stad; lamination stad; lamination sis sediment	olçanic an ain ted: plant cky struct of plant deformati ium: lamin ar chunk	090 d 091 ure: 093 debris: on, 094 ated: 100
SP	9.5/ T 11.0 12.0/ 17.5/ T 11.5/	1/5/	18/18/18/18/18/18/18/18/18/18/18/18/18/1	70			SILT	glass  - dark gra quartz g  - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap  SAND - da sand onl  - dark gra	y, fine to rains; mino me fine san laminations prown; lamin plant debray; laminate top; soft per at top	medium; von stad; lamination stad; lamination sis sediment	olçanic an ain ted: plant cky struct of plant deformati ium: lamin ar chunk	090 d 091 ure; 093 debris; on,
SP	9.5/ T 11.0 12.0/ 17.5/ T 11.5/	1/5/	18/18/18/18/18/18/18/18/18/18/18/18/18/1	70			SILT CLAYE SANDY SILTY SANDY	glass  - dark gra quartz g - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap  SAND - da sand onl  - dark gra volcanic	y, fine to rains; mino me fine san laminations prown; laminations plant debray; laminated top; soft per at top; soft y at tip; or y at tip; or y, fine; so the control of t	medium; voor iron stad; laminated; bloomis  ed; trace; sediment ine to med; lass; ced;	olcanic an ain ted: plant cky struct of plant deformati ium: lamin ar chunk	090 d 091 ure; 093 debris; on, 094 ated; 100
SP	9.5/ T 11.0 12.0/ 17.5/ T 11.5	1/5/	18/18/18/18/18/18/18/18/18/18/18/18/18/1	7/0			SILT CLAYE SANDY SILTY SANDY	glass  - dark gra quartz g - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap  SAND - da sand onl  - dark gra volcanic	y, fine to rains; mino me fine san laminations prown; laminations plant debray; laminations top; soft top; soft par at top; soft y at tip; or a	medium; voor iron stad; laminated; bloomis  ed; trace; sediment  ine to med; lass; ced; ome silt inains  measured	olcanic an ain ted: plant cky struct of plant deformati ium: lamin ar chunk	090 d 091 ure; 093 debris; on, 094 ated; 100
SP	9.5/ T 11.0 12.0/ 17.5/ T 11.5	1/5/	18/18/18/18/18/18/18/18/18/18/18/18/18/1	70			SILT CLAYE SANDY SILTY SANDY	glass  - dark gra quartz g - gray; so debris;  Y SILT - b abundant  SILT - gr clayey a mud diap  SAND - da sand onl  - dark gra volcanic	y, fine to rains; mino me fine san laminations prown; laminations plant debray; laminations top; soft top; soft par at top; soft y at tip; or a	medium; voor iron stad; laminated; bloomis  ed; trace; sediment  ine to med; lass; ced; ome silt inains  measured	olcanic an ain ted: plant cky struct of plant deformati ium: lamin ar chunk	090 d 091 ure; 093 debris; on, 094 ated; 100

170-1-6	G CO		ITH P	ARK T	RANS	FFP C	TATION	PROJECT NAME	6 CLEMT UP METRS ETS-	RS/METRO	7-450	0
	M SKET	ЭН		545		W.	MARGINAL WAY	ORILLING METHOD	1101 1 01/ 67			
	2	AFMEN.			10'		PAVING		∞ STANDARI SAFETY HAMM			
		,	./	K	7-4500	X	1		1.5 511		START TIME	FINISH
			1		133	7	1	WATER LEVEL	1140	1200	1045	1200
		2.2.5		7	7.	4450	* N	DATE	2-14-86	2-14-86	1-14-81	2-14-80
DATUM	SURF	ACE	1 z /	. /		ELEVATION	11.5'	CASING DEPTH	1 1		P.77.34	2-11-06
SAMPLE	SAMPLE	BLOWS PEN 8 INCHES	INCHES DRIVEN	NI /	DEPTH IN FEET	PIEZOMETER	NA CARLO	HNu UNA	SS COVER /AILABLE			
James L.	SAI	M.0w	INCHES DRIVEN HECOVERED	CH 4	ăz	PIEZ	CLASSIFICAT	ION	DESCRI	PTION		
7	7	3.00	/		01							
-			//		-		- SAND -	FILL - brown: f	ine to medi	um; some f	ine to	
_			/					coarse qu				1110
/	/		/								ins three true	
1/	2.5/	10/4	18/				SAND -	- brown, ri	usty staini	ng, fine t	o medium;	glass.
1501	14.0	/2	/3	1	1			Drick, o	ther debris	s, aluminum	i, wire	
_	/_	-										
2/500	5.0	12/8	18/10		5		SAND -	- dark gra	y, fine to	medium; tr	ace of pla	nt
/	/		1	1				debris;	volcanic ar	id quartz g	rains	1120
/	/	1	//	1	1	1						
/	/	11/	/				SAND	as above	· trace fir	e gravel.	trace plan	+
SPI	7.5	12/	18/18				SANO .	debris	, 6, 466 111	ic qravers	crace pran	113
/	1/		1/	1								
4/	10.0/	1/	18/	1	10-	18		A	0 000-00-00-00-00-00-00-00-00-00-00-00-0	*		
SPT	11.5	12/3	18		10	1140	SAND	- as above	, 9 inches	, glass fra	gments	
/	/		/			1140	CLAYE	Y SILT - b	rown; lamir	nated; abun	dant organ	ic
/	1/		1/			7 6		debris a	nd laminae			114
5/	12.5/	2/	18/	1			SILT .	- gray, we	ll laminate	d; trace o	rganic deb	
SPT	14.0	12/	3 18	_	-			***************************************				115
/	/		/									
6/	15.0/	8/12	18/		151		7117	ברטטבט בגיי	N AND CTIT	سند داد داد	#2 4.	
SPI	16.5	1	11/18				INTER	medium;	laminated;	volcanic a	y, fine to and quartz	
/	/		1			£ 1	CAND		trace plant		المراجع في	120
SP	18.0	3/4	3/18				SANU		y, fine; po		lated:	121
/	1/	1	1			3	SA END O				marumad ;	neido
/	1	+	+	1		-	END O	· · · · · · · · · · · · · · · · · · ·			measured i e backfill	
/		_	/						tings to si			
/	1/		1/		20-	Ц						

	N OF BOF		uru b	ADV.	TDANI	eren.	CTA	TTON	JOB NO. 8546 PROJECT NAME	METRO ETS-		ВО	7-4545	<u>.,1                                    </u>
	ON SKET		UTH P	AKK Z	IKAN;		MA	RGINAL		HOLLOW ST	W 1 10 10 10 10 10 10 10 10 10 10 10 10 1		1-4040	
		1-0	7-1	4600	1	1		AY						
		1	0		FE	NCE ,	PA	SOGE		STANDARD	DENETDATI	ON TE	CT.	
	PAVI	110	/	1	12/2	1	1	-		SAFETY HAM				3
	EDG		<b>→</b> /	8		1		1					START	FWISH
			1	y "E	154'	7	/	1	WATER LEVEL	11.0'	11.2		TIME	TIME
			. )		1	•	1	1	DATE	1425	1435		1400	1500
	CI	RFAC	<b>C</b>	7		7-45	-	1 5'	CASING DEFTH	2-14-86	2-14-86		1	2-14-8
DATUM	30		- E	= /		ELEVATION	Is	URFACE CON	DITION	RASS COVER	1		1	
SAMPLE	SAMPLE DEPTH	BLOWS PER	INCHES DRIVEN	1	DEPTH IN FEET	PIEZOMETER	SRAPHIC LOG		HNu UNAVA					
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	50	9 0	CHES	CH V	~ X	2314	- II	LASSIFICATION	<b>1</b>	DESCRI	PTION			
1		, Jelu	1		Λ.			LAJON NOTE	-					
K,					OT.			SAND -	FILL brown fi	ine to coar	201 2000	fine :	La .	
/			/			-	•	SMNU -	coarse qr		se; some	Tine		
1	/					1.	0							
K	1951	4/	18/			:	-	SAND -	brown fi	ine to coas	e: nlant	dehri	s. bric	k 141
SPI	4.0	15/	4		F		1.		J. Oliniy	THE 00 0003	e, pranc	GCDI I.	3, 0110	11 171
/	/			11		1						and desired		
2/	5.0/	2/	18		-		· · · · ·					Panerson street		10 mm
SPT	/	9/6	10		5		0	LWANGE D		eports thi		was or	netal	:
/	1/		/			4 1,			cuttings	are sand a	s above			
1	1						d'	ao-kawa					-1	***
/	/							5 8 115					-	
3/	7.5	10/8/1	18				1	SAND -		, fine to				
/3P	7.5	'	1						brick fra		THE ALGRES	prans	THIII.	1420
K		-				1	LIT-							
14/sp	10.0	2/2/3	18/		107		$H \perp H$	CLAYEY	SILT _ b	rown; lamir	nated: abu	ndant	nlant	
1	1	/3				₩L □ ₩25	HIL		debris a	nd organic	laminae;	sandy	to to	143
1	V_		//			Has	111	***************************************						
/	/					1 -								
5/	12.5/	1/1	18/					SILT -		minated; wo	ood and ot	her p	lant	100
SP	14.0	1/1	18	- Are			111		debris					144
/	/						III		on united tool of					
6/SP	15.0/	8/12/	18/		15			CAND	- Possila				222	٠
SP	16.5	172	18			877		SAND -	dark gra	y, fine; ti	race silt;	VOIC	anic ar	1G
/	/					NA STATE								
7/	16-5/	16/	18/					SAND -	as above					
SP	1/18.0	1/2	18							111-11111-111111-111111				
/	/							END OF		otal depth				
1	1/		1/						inside a	uqer. Hole	backfill	ed wi	th cut	tings
K-	1	1	1		20				co suria	uc	, , , , , , , , , , , , , , , , , , ,			
/	/		/		20-									

LOCATION OF BY		JTH PARK	TRANS	FER S	TATION	PROJECT NAME		S/METRO -7	BORING N	-460	
LOCATION SKET	CH	FENCE	1		W. MARGINA	DRILLING METHOD	: HOLLOW ST	EM AUGER		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	<del>-×</del>	<del>-x-x</del>	×	X	1						· · · · · · · · · · · · · · · · · · ·
		7	-4641	1	1	140 LB.	STANDARD  HAMMER DRO  MANUEL  MA				
		1	•	( N3,	×				51	ME	FINISH
		LIGHT	1-8-1	1.	int 1	TIME	0845	0910	08	300	0930
			/	70,-	4600 N	DATE	2-17-86	2-17-86	C	ATE	DATE
CAT OF	FACE	* / -	7	LEVATION	14 SURFACE CON	DITION CDA	SS COVER		μ	11-82	2-17-8
SAMPLE SAMPLE DEPTH	BLOWS PER	HIN K	DEPTH M FEET	PIEZOMÉTER GRAPHIC LOG		HNu UNAV		- W			X-10-10-10-10-1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 .	INCHES PARTO CITY	J GE	PIEZ	CLASSIFICATI	OH.	DE SCR)	PTION			-
//			0,				FILL				
$\overline{}$	1				SAND -	brown, f	ine to coar	se: some f	ine to		
1 2.0/	3/	18/	-			coarse g	ravel				
1501 3.5	12/1	7				brown, i	ron stainir	ig, fine to	coarse	Y	000
//				Ċ		trace fi	ne gravel;	wire, othe	r debris	5	083
//								, market 1			·
2/4.5/	1/	18			SAND -	as above	; glass, of	her debris			083
SPT/L.C	//	/4	□ T								
					•						
3 / 7.0/ SPT /8.5	5/6/	18			SAND -	dark gra	y, fine to	medium: vo	lcanic	and	
/SPT /8.5		,					rains; wet				084
						****					
//		/			4 * 1	ND SAND I	NTERBEDDED	- dark gra	v to ar	av.	fine
4 9.5/ SPT /11.1	1/	18	10-			to mediu	m; laminate	ed; trace o			ris;
//		1-/6			ŀ	faint fu	el oil odor		*		085
5/12.0	14/1	18		2142							
SPT /13.	5/2	/18		0749	CLAYEY	SILT - b abundant	rown: lamin	nated; bloc er; trace	<u>fine sa</u>	ctur nd a	t
					11		ht, moist		-		090
//				1 1					36.		
6/14.5	1/1/	18	15-	78.5	SILT -	gray; la	minated; p	lant stems	abundan.	t	091
SPT 16.	/2	18	15-	ž							w
//				- 1		ajara ja ja ja ja ja ja ja ja ja ja ja ja ja	allia de la companya de la companya de la companya de la companya de la companya de la companya de la companya				
//								1.0	I E. al		
7 17.5 SPT 19	03/3/6	18		<u>ş</u>	SILT -	as above at base	: fine to r				092
	1		20		END	OF HOLE:	Total dep luger; hole	oth measure	ed as 15	,5 f	eet
X	+			+		table; h	nole backfi				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
VV						surface					

		OF BOF		SOUTH	PARI	K TR	ANSF	ER	STATION PROJECT NAME METRO ETS-7  STATION PROJECT NAME METRO ETS-7  STATION PROJECT NAME METRO ETS-7	
Annual management		N SKETC			XCE	× 4'/	n x	1	MARG. DRILLING METHOD: HOLLOW STEM AUGER	
			1		41 6	3/	1	X	SAMPLING METHOD: STANDARD PENETRATION TEST	
			,	3	0/	1		,	140 LB. SAFETY HAMMER DROPPED 30 INCHES	FINISH
-		1	IGHT	1.0		,	7-40	. 40	WATER LEVEL 11' 10.7' 15.7' TIME 1020 1055 1105 1000	TIME
		SIID	FACE			Т	ELEVATI		14' CASING DEPTH 2-17-96 2-11-96	2-17-8
	DATUM H D	201		5 /	- /				SURFACE CONDITION OF ACC. COLUED	
	SAMPLE HO	SAMPLE	BLOWS PER	INCHES DRIVEN RECOVERED	CII 4	DEPTH IN FEET	PSEZOMETEN	GRAPHIC LDS	HNu BACKGROUND = "B"	
	7				,	0 7			CLASSIFICATION DESCRIPTION	
r.							1			
L.	SPT	2.5/	17/21/10	18/	%				SAND - brown, some iron staining, fine to medium some fine to coarse gravel; wire, other decimals and some staining some staining.	ebri:
PARLER									dry	103
	SPT	5.0/	15/3	18/	/-	5 -			SAMPLE TO SMALL TO PROPERLY LOG - one large chunk	<
	4	/		/					of what appears to be pumice, plus sand debris	104
	3/	7.5/	3/	18/	B/				SAND - dark gray, fine to medium; trace of plant	
	1501	19.0	14/4		/-				debris; volcanic quartz grains; wet	104
Î	4/	10.0	1/1	18/	8/	10-				
H	SPI	/11.5	/1	/12	/-		W.		SAND - as above; glass and small bit of fill incorporated into middle of sample; wet	105
25		/			Bo		1055	1		
CHICO	SPT	14.0	1/1	18	B/-		£		CLAYEY SILT - gray with black organic lamination silt at top, laminated; at tip blocky wit	
00-71-7	/	160/	13/	18/				1	abundant plant fibers; organic odor; moist	110
1	SPT	16.5	14/5			15			INTERBEDDED SILT AND SAND - gray, laminated; fin trace of plant debris; wet	e: 111
DATE	/	/	-	/			Š.	ii		
	/	1		/						
	7/	18.5/	2/2/	18/			1		SANDY SILT - gray, laminated; fine; trace of pla debris; wet	nt 112
	SPI	20.0	1	/ 18		20	1		END OF HOLE: Total depth 16.6 feet inside auge hole backfilled to surface with cuttings	The state of the s

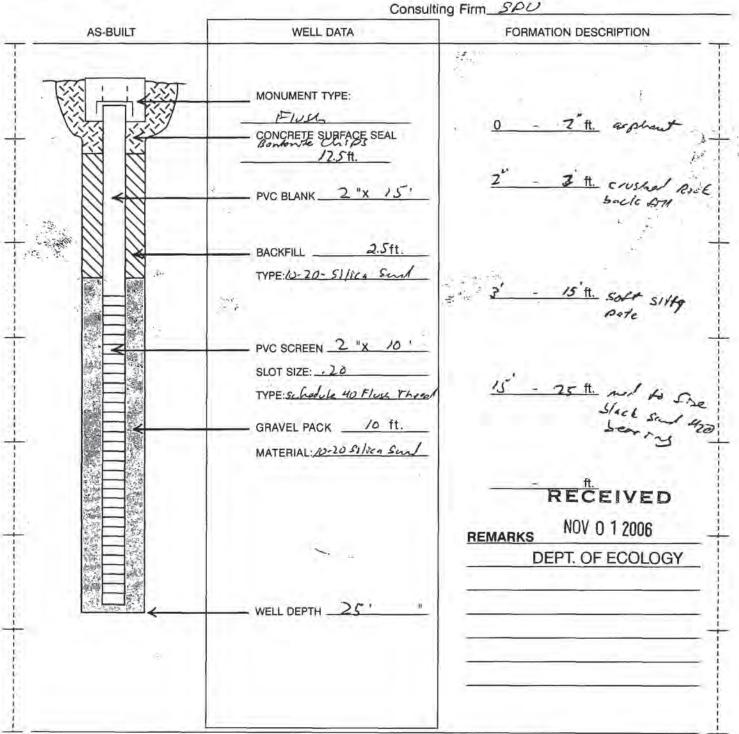
#### HOLT DRILLING, INC.

24-4E 29 K

211261

Resource Protection Well Report

Project Name South Abok Home Station	Date 10-20-00
Well Identification # ALN493	County King WW. 1/4 SE 1/
Drilling Method 6 M/R	Section 29 T. 24W R. 4E
Driller Jon Bennett	Street Address 7th 1 Riverside due -
License # 2-818	Start Card R 70562
	Consulting Firm SPU



Signature for Bus

**Historical Kenyon Street Bus Yard Borings** 

Penetration Resistance Depth, FT Lab tests samples Blows/6" Symbol SOIL DESCRIPTION Ground Water Blows per foot (SPT) USCS Depth, I Blows per foot (non-standard) Water Content % LL Surface Elevation: 18 NAVD88 Gravel surfacing. FILL Cuttings are dark brown, SILTY SAND WITH GRAVEL; moist. Ð 2,4,5 0 Loose, dark brown, fine to medium SAND WITH SILT; moist; trace organics, roots, wood fragments, and SM pockets of brown silt. 1,1,2 0 Very loose, brown to gray, fine SILTY SAND; moist to wet; trace mica flakes and organics. SP 0 2,1,1 0 **ALLUVIUM** Very loose, brown to black, fine SAND, trace silt; wet. 0,0,0 ENV 0 Very soft, gray, CLAY, few silt, trace sand; wet; trace CL organics. Very soft, gray, SILT, few clay, trace sand; wet; few ML organics, dilatent. 0,1,1 0 -15 Decreased clay, decreased organics. 0,0,1 ENV 0 Trace organics. 0 0,0,0 0 -20 Increased clay and organics, trace pockets of light 0,0,0 0 brown clay. Bottom of boring at 21.5 feet below ground surface. Groundwater encountered at 7 feet below ground surface at time of drilling. Temporary well (TW-4) screen set at 3 to 13 feet below ground surface. 25 Boring backfilled with cuttings and silica sand. -30 30

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

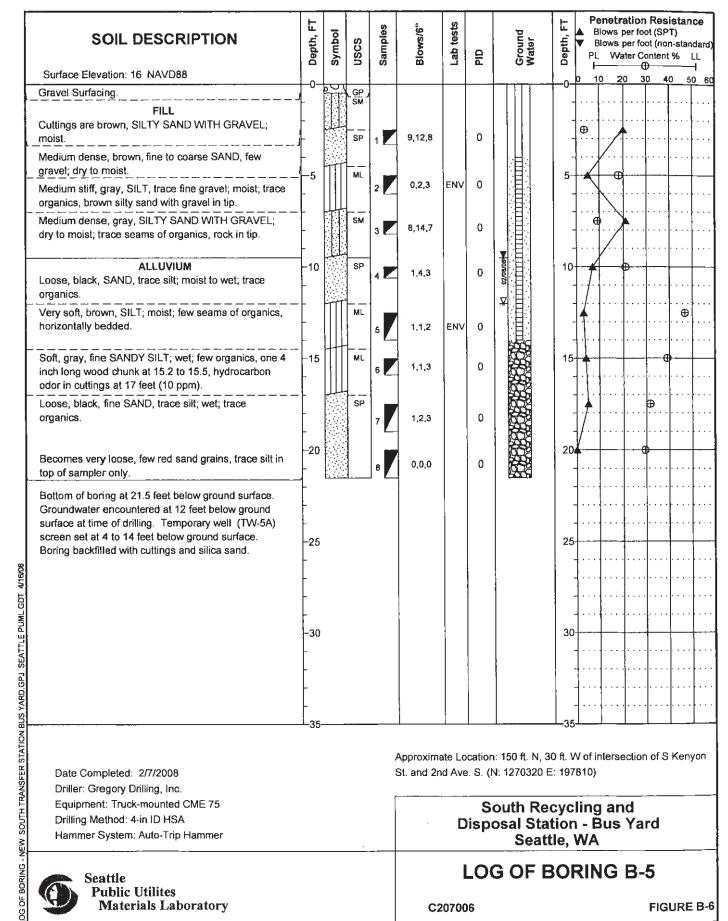
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paged by: CAN

Seattle
Public Utilites
Materials Laboratory

Reviewed by: TS

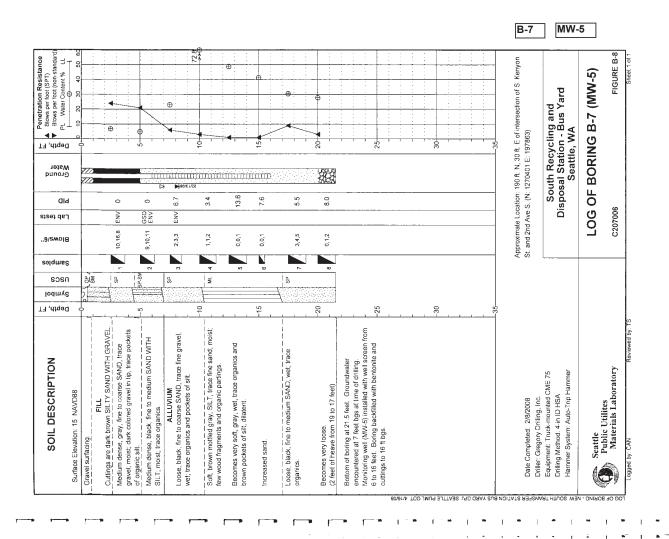
Sheet 1 of 1



Logged by: CAN

Reviewed by: TS

Sheet 1 of 1



8 8

120

125

Bottom of boring at 121.5 feet. Groundwater encountered at 10 feet at time of drilling. Boring backfilled with cuttings and bentonite.

130

135

M

GLACIAL TILL Hard, gray, SANDY SILT WITH GRAVEL; moist.

Penetration Resistance
Blows per foot (SPT)

Blows per foot (non-standard)

PL Water Content % LL

Debth, FT

erser dad Blows/6"

Samples

Depth, FT

SOIL DESCRIPTION

Surface Elevation: 16 NAVD88

naca гутро Approximate Location: 70 ft. N, 53 ft. E of intersection of S. Kenyon

St. and 2nd Ave S. (N: 1270400 E: 197740)

South Recycling and Disposal Station - Bus Yard Seattle, WA

LOG OF BORING DB-6

FIGURE B-7

C207006

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Fax (425) 368-1001

PAGE 1 OF 1

**MW-07** 

8-915-16289-A

**JW-11** 

SPU Bus Yard

8-915-16289-A

ENVR+WELL

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LOG OF BORING MW-11

PAGE 1 OF 1

USA 98011

Tel (425) 368-1000 Fax (425) 368-1001 MW-11a

PAGE 1 OF 1

MW-11A

8-915-16289-A

SPU Bus Yard

8-915-16289-A

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LOG OF BORING MW-13

PAGE 1 OF 1

	O DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESC	RIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	Wi	ELL SCHEMATIC Above-ground _Monument with Locking Cap & Bollards
	- <b>u</b> -		SP	Loose, light brown, fine SAND; d	ry.			0.0			-	Bentonite Chips Casing (Schedule 40 PVC, 2.0-inch I.D.)
			<u>s</u> м	Reddish-brown, silty SAND; dry.			7					
	<b>- 5</b>		SP SW ML- CL	Reddish-brown, fine to very fine Reddish-brown, fine to medium Stiff, olive-gray, clayey SILT, nor	SAND; dry.		11	0.0				
	-						10	0.0				
	-10- -		ΟĹ	Brown, clayey SILT with trace or	ganics (plant fibers); moist.		4	0.0				
			ML	Brown, clayey SILT. Stiff, gray, sandy SILT; moist to v	wei.	12777	4	0.0				
	-15 -		SP	Brownish-gray, fine SAND with to Dark grayish-brown, fine to very moist to wet. Grayish-brown, silty, fine SAND	fine SAND with trace silt;		6	0.0				
8-915-16289-A.GPJ AMEC PORTLAND.GDT 2/11/09	-											
8	-20 BORI	ING M	ETHOD	D: Hollow Stem Auger ELEV	/ATION REFERENCE: NAVD 8	<u></u> В	1			l		
GPJ A					UND SURFACE ELEVATION: 1	8.0 feet		REM	IARKS	:		
6289-A			CME		NG ELEVATION: 20.54 feet RT CARD/TAG ID: /APE286							
			Y: H.1		LING DATES: 10/09/2008 - 10/0	9/2008					<u>.</u>	
ENVR+WELL BORING			Yard 289-A		AMEC Earth and Environ 11810 North Creek Parkw Bothell, Washington USA 98011 Tel (425) 368-1000			<b>a</b> l	m	ec®	LO	G OF BORING MW-19
빏					Fax (425) 368-1001						1	PAGE 1 OF 3



2		GRAPHIC LOG	USCS SYMBOL		DESCRIPTI		SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	V	VELL SCHEMATIC
-			ML- SM	Stiff, brownish-gray, sand matrix); wet.	y SILT (very i	fine sand in mostly	silt		0.0				Bentonite Chips
													Casing (Schedule 40 PVC, 2.0-inch I.D.)
-2	<del>5  </del>		SP	Dark gray, medium SANE moist to wet.	with some fi	ne sand and trace	silt;		0.0				—2/12 Monterey Sand
-3	_		sw	Dark gray, fine to medium and trace silt; moist to we	SAND with s	some very fine sand	d	12	0.0				— 2/12 Monterey Sand  — Well Screen
-3:													- Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.010-inch slots)
90112 1000			sw	Dark gray, fine to medium and trace silt; wet.	SAND with s	some very fine sand		12	0.0				
40	نار	<u>∷:</u>		N. II. II									Threaded End Cap
āl 💮				D: Hollow Stem Auger		I REFERENCE: NA							
Ď.			: DIAM CME	TETER: 7.0 (in)		URFACE ELEVATION: 20.54 fe			REM	ARKS:			
8				Cascade Drilling		EVA NON: 20.54 19 RD/TAG ID: /APE28							
<u> </u>			Y: H.\	<del>-</del>		ATES: 10/09/2008							
SF	יטי	Bus	Yaro	<u> </u>	AME	C Earth and Env	rironmental	, Inc.				10	G OF BORING

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

amec

.OG OF BORING MW-19

PAGE 2 OF 3

DEPTH (# bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
-		sw	Medium dense, gray, fine to medium SAND; moist.		13	0.0			
<del>-45-</del>		ML.	Dark gray SILT with trace clay, wet.		16	0.0			
_			End of boring at 46.5 ft bgs.						
-50- 	:								
						!			
-5 <del>5</del> -									
_						-			
_	· -								
			D: Hollow Stem Auger ELEVATION REFERENCE: NAVD 8			DEN	APVC		
DRIL	L RIG	: CME	METER: 7.0 (in) GROUND SURFACE ELEVATION: 75 CASING ELEVATION: 20.54 feet Cascade Drilling START CARD/TAG ID: /APE285	io.v feet		KEM	ARKS		
LOG	GED 8	3Y: H.	Vick DRILLING DATES: 10/09/2008 - 10/	09/2008			_		

**SPU Bus Yard** 

8-915-16289-A

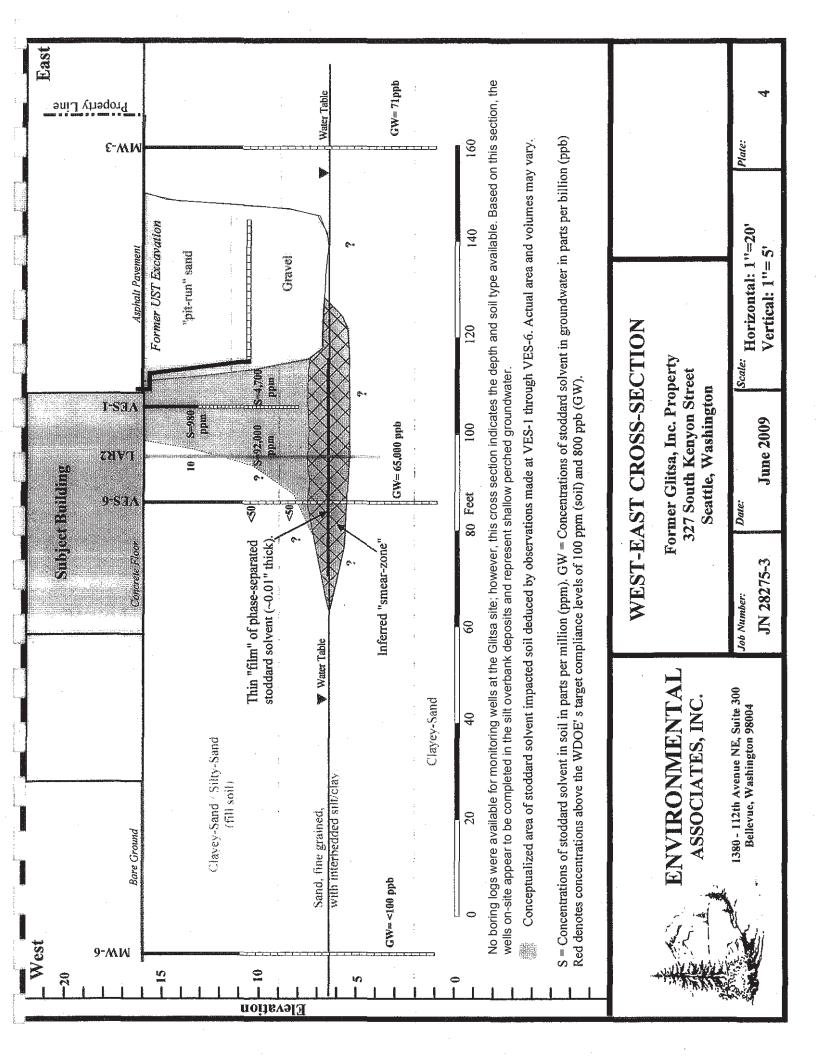
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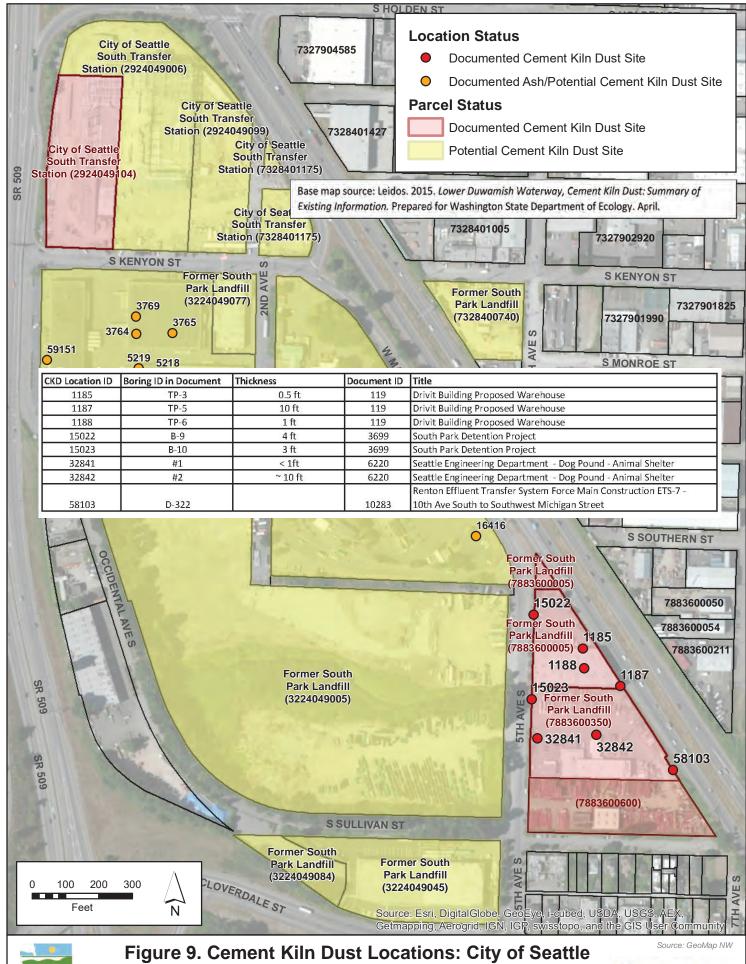
LOG OF BORING **MW-19** 

PAGE 3 OF 3

**Cross Section of Subsurface at Glitsa Property** 



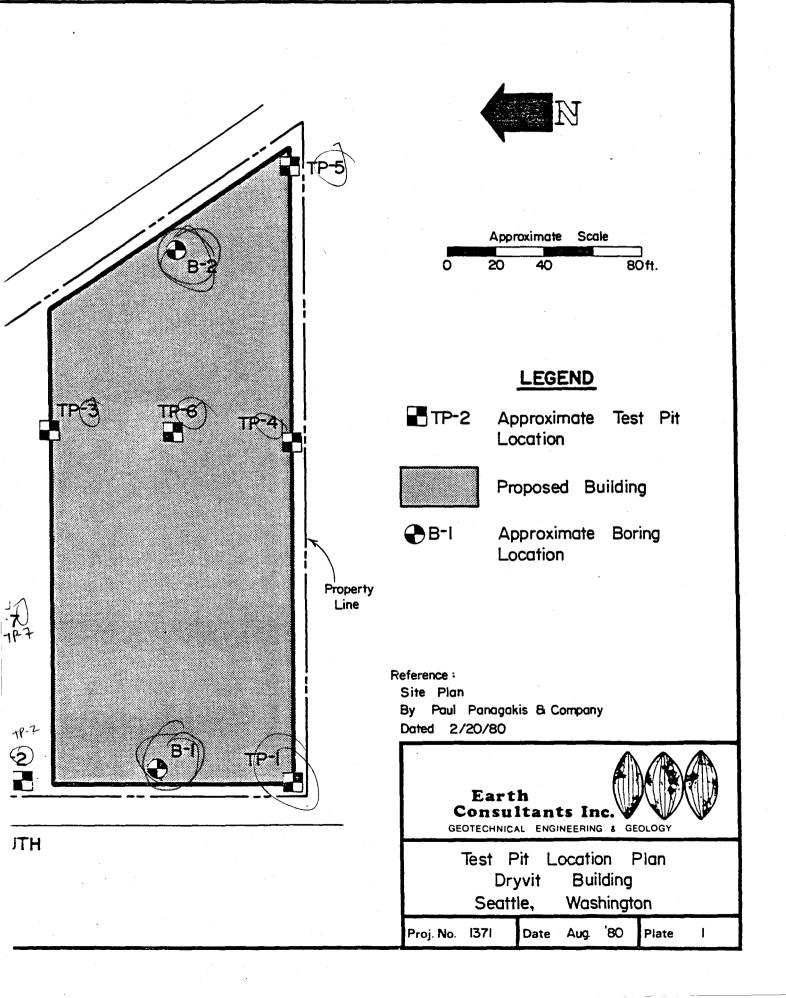
5<sup>th</sup> Ave South Property Logs From Ecology CKD Study





**ECOLOGY** 





OLAM ·	R DIVISION	S	GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
	S BAYEL DWA	CLEAR MAAVELS		GW	WELL-BAADED BAAVELS, SHAVEL-SAND BETUNES, LITTLE DR HO FINES
CDARSE	20172 64445FfA	(iiiiia or aa finaa)		GP	POORLY-GRADED GRAVELS, GRAVEL- SARD MEXICARES, LITTLE OR HO PINES
GRAIMED BDILS	MORE THAN SO'S. OF COARSE PRAC-		31[[]][	GM	RETT GRAVELS, GRAVEL-SAND- BILT MIXTURES
	TION RETAINED ON NO 4 SIEVE	ingurectable amount of fines]		GC	CLAYET BRAVELS, GRAVEL-SAMD- CLAY MIXTURES
	3440 440	CLEAN SAND		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO PINES
MORE THAN 30% OF MATERIAL IS	SANDT SOILS			SP	POORLY-SAADED SAMOS, SRAVELLY SAMDS, LITTLE OR HO FINES
LAREER THAN NO 200 SIEVE SIZE	MORE THAN SO'S, OF COARSE FRAC-	SAMOS WITH FINES		SM	SELTY SANDS, SAND-SILT MIXTURES
	TION PASSING NO 4 SIEVE	fines)		sc	CLAYEY SAMOS, SAND-CLAY MIXTURES
				ML	SHORT-MRIC SILTS AND VERY FIRE SAMES, ROCK FLOUR, SILTY OR GLAYEY FIRE SAMES OR CLAYEY SILTS. WITH SLIGHT PLASTICITY
FIME GRAIMED SOILS	SILTS AND CLATS	LIGUID LIMIT LESS THAN SO		CL	PLASTICITY, SAAVELLY CLAYS, SAMOT CLAYS, SHLTY CLAYS, LEAN CLAYS
				OL	CREAMIC SILTS AND DREAMIC SILTY CLAYS OF LOW PLASTICITY
				мн	MOPERANC SILTS, MICACEDUS OR DIATOMACEDUS PINE SAND OR SILTY SOILS
MORE THAN 30% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	BILTS AND CLATS	LIQUID LIMIT GREATER THAN SO		СН	PLASTICITY, FAT CLAYS
				он	DREAMIC CLATS OF MEDIUM TO HISI PLASTICITY, ORGANIC SILTS
<b>H</b>	IBMLT ORGANIC S	soils		PT	PEAT, HUMAS, "WAMP SOILS WITH HISH DREAMIC COMTENTS
	TOPSOIL			Hum	us and Duff Layer
		<del></del>	1000000	<del> </del>	<del></del>

TOPSOIL	Humus and Duff Layer
FILL	Uncontrolled with Highly Variable Constituents

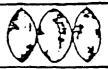
HOTE: DUAL STMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

#### SOIL CLASSIFICATION CHART

THE DISCUSSION IN THE TEXT OF THIS REPORT IS RECESSARY 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
Water Level (date)
To Torvane Reading
Penetrometer Readings
Water Observation Well

Earth Consultants Inc.



LEGEND

Proj. No. 1371 Date Aug. '80

Plate 2

#### BORING NO. \_\_I\_\_

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	- - -	Ι	10	14	
		dense. (FILL)	5	I	4	21	
				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	10 - - 15	I	14	27	
		feet)	20	П	4	33	
			25	I	17	38	
				T	21	24	·

Boring terminated at 29 feet below the existing grade. Water observation well installed to 29 feet.

Earth
Consultants Inc.

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 I T	19 7 7	8 17 18	
	SM SP	Gray-black SAND with silt, loose to medium dense, moist grades to wet.	- 10 - 2 - ∑ - 15	Ι Ι Π	12	30	(qu=7.5 to
	ОН	Gray-tan clayey SILT with wood debris, medium stiff to stiff, moist to wet.		Ī	4	59	1.25 tsf) LL=57 PL=46 PI=11
	SM SP	Gray-tan SAND with silt, medium dense, wet.		T	19	26	

Boring terminated at 24 feet.

Earth
Consultants Inc.

BORING LOG

DRYVIT BUILDING SEATTLE, WASHINGTON

Proj. No. 1371

Date Augus t '80

Plate 4

#### TEST PIT NO. \_\_\_\_I Logged By BT Date \_\_\_\_8/13/80 Elev. \_ 0\* Depth **USCS** (ft.) Soil Description (%) Lab Data 0 Crushed rock (FILL) 9 Tan gravelly silty SAND with wood, brick, metal SM and concrete debris, loose, moist grades brown below 2 feet. (FILL) 14 15 10 SM Gray-black gravelly SAND with silt, medium 15 SP dense, moist. Test pit terminated at 14 feet. No groundwater encountered. Caving in the fill unit from 2.5 to 10.5 feet. Logged By BT Elev. +1 TEST PIT NO. \_\_\_ Date \_8/13/80 Crushed rock (FILL) Brown grades to tan, gravelly silty SAND to 18 SM gravelly sandy SILT with wood, concrete and metal debris, loose to medium dense, moist. ML (FILL) 14 Gray-black SAND with silt with trace of wood 10 SM SP debris, loose to medium dense, moist.

No groundwater encountered. Moderate caving of Test Pit walls.

Test pit terminated at 14 feet.

Earth
Consultants Inc.

GEOTECHNICAL ENGINEERING & GEOLOGY

**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 -		SM	(6" Crushed rock - FILL) Tan gravelly silty SAND, medium dense, moist. (FILL)	14	٠
,	-		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	
10 -		SM SP	Gray SAND with silt, with trace of wood debris, loose to medium dense, moist.	16	
,0 -			Test pit terminated at 10 feet. No groundwater encountered. Heavy caving above 7 feet.		
15 -		<u> </u>		<u> </u>	<u> </u>

	Logged By E	TECT DIT NO 4	iev	+1
0 -		(6" Crushed rock - Fill)		
٠.	Sm	Tan to brown gravelly silty SAND with boulders, wood, concrete and metal debris, loose to medium dense, moist.	13	
5 -				
	<b>1</b>		12	
10 -	ML	(Asphalt debris at 8 feet) Grades to tan sandy clayey SILT with wood and asphalt debris, soft to medium stiff.	24	pu=0.5to 1.0 tsf
	SM SP	Black SAND with silt, medium dense, moist.	19	
15		Test pit terminated at 14 feet.		
15 -		Moderate seepage at 13.5 feet.		

Earth
Consultants Inc.

GEOTECHNICAL ENGINEERING & GEOLOGY

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.  $\pm 1.5$ 

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 -				·
10 -	-		53	
	SM	Black silty SAND with roots and piece of concrete debris, loose to medium dense, wet.  (FILL)	19	
15 -	SM SP	Black SAND with silt and pockets of silt, medium dense, wet.	26	
	I amad Bur B	Test pit terminated at 14.5 feet. Heavy seepage at 14.5 feet. BT		
	Logged By 2	TEST PIT NO 6	ev. <u>+</u>	1

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	
<b>.</b>		SM	Brown gravelly silty SAND with wood debris and pockets of blue-green silt, loose to medium dense, moist.	12	
10		ML	Grades to clayey sandy SILT with gravel, wood and asphalt debris. (FILL)		
•	-	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 $\searrow$ stiff, moist.	56	qu=1.25 tsf

Test pit terminated at 14.5 feet. No groundwater encountered. Caving below 2 feet.

GEOTECHNICAL ENGINEERING & GEOLOG'

TEST PIT LOGS DRYVIT BUILDING SEATTLE, WASHINGTON

Proj. No. <sub>1371</sub>

Date August 80

Plate 7

### TEST PIT NO. \_\_\_7

Logged By BT Date 8/13/80

Elev. \_ ±1\_

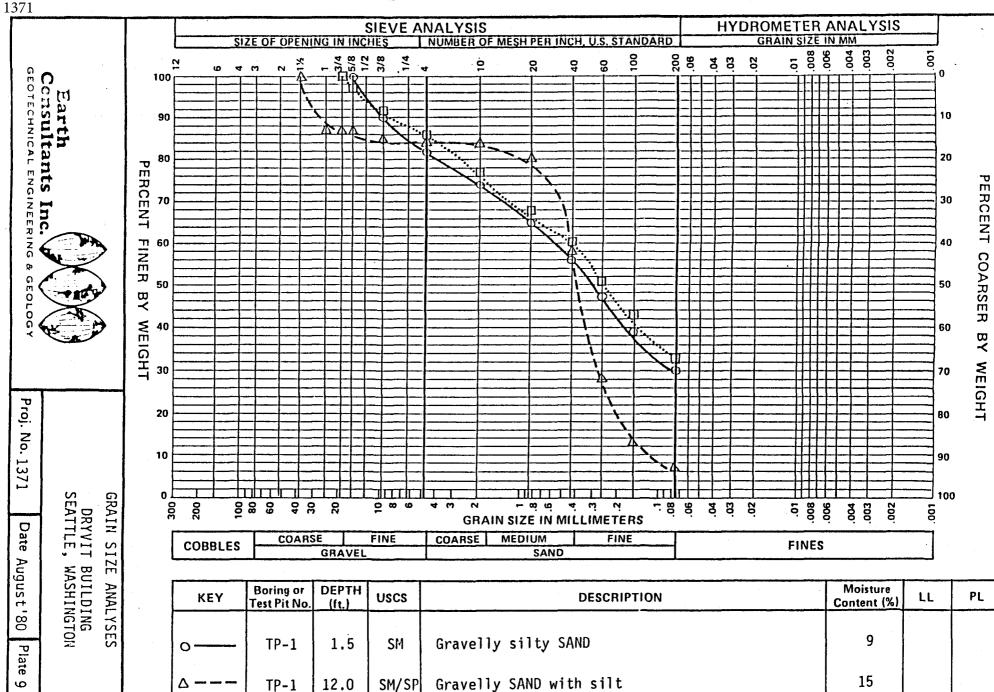
Depth (ft.)	USCS	Soil Description	W (%)	Lab Data
0 -	ML	(12" Crushed rock - fill) Brown sandy SILT, medium dense, moist.		
	SM	Brown gravelly silty SAND with wood and brick debris, loose to medium dense, moist.	13	
5 —		(Grades to gravelly silty SAND with clay, medium dense) (FILL)	7	
15 -	SM SP	Black SAND with silt, medium dense, with pockets of SILT with organics, medium dense, moist to wet.	7	

Test pit terminated at 15 feet. No groundwater encountered.

TEST PIT LOGS DRYVIT BUILDING SEATTLE, WASHINGTON

Proj. No. 1371

Date August'80 Plate 8



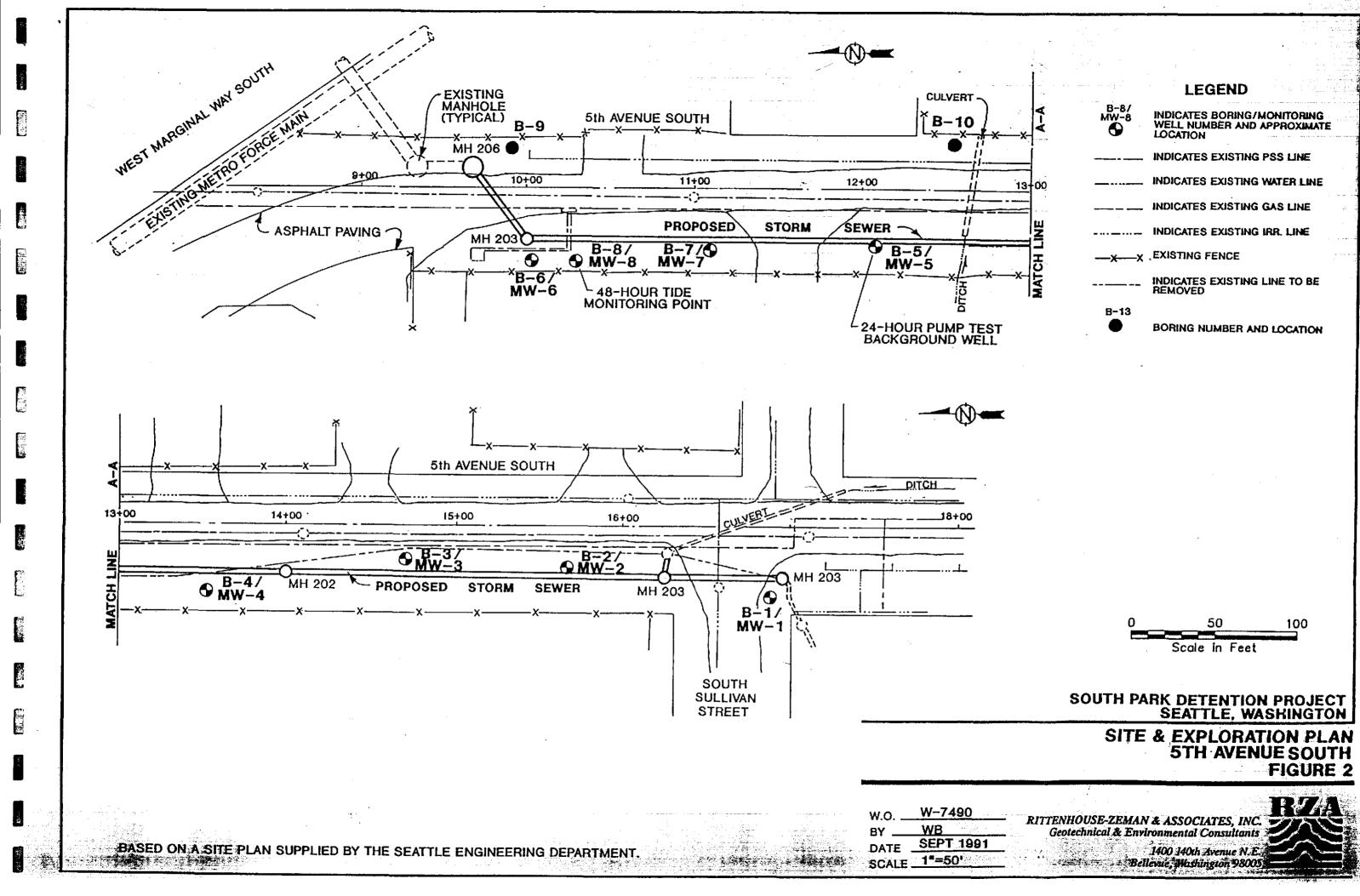
Gravelly silty SAND

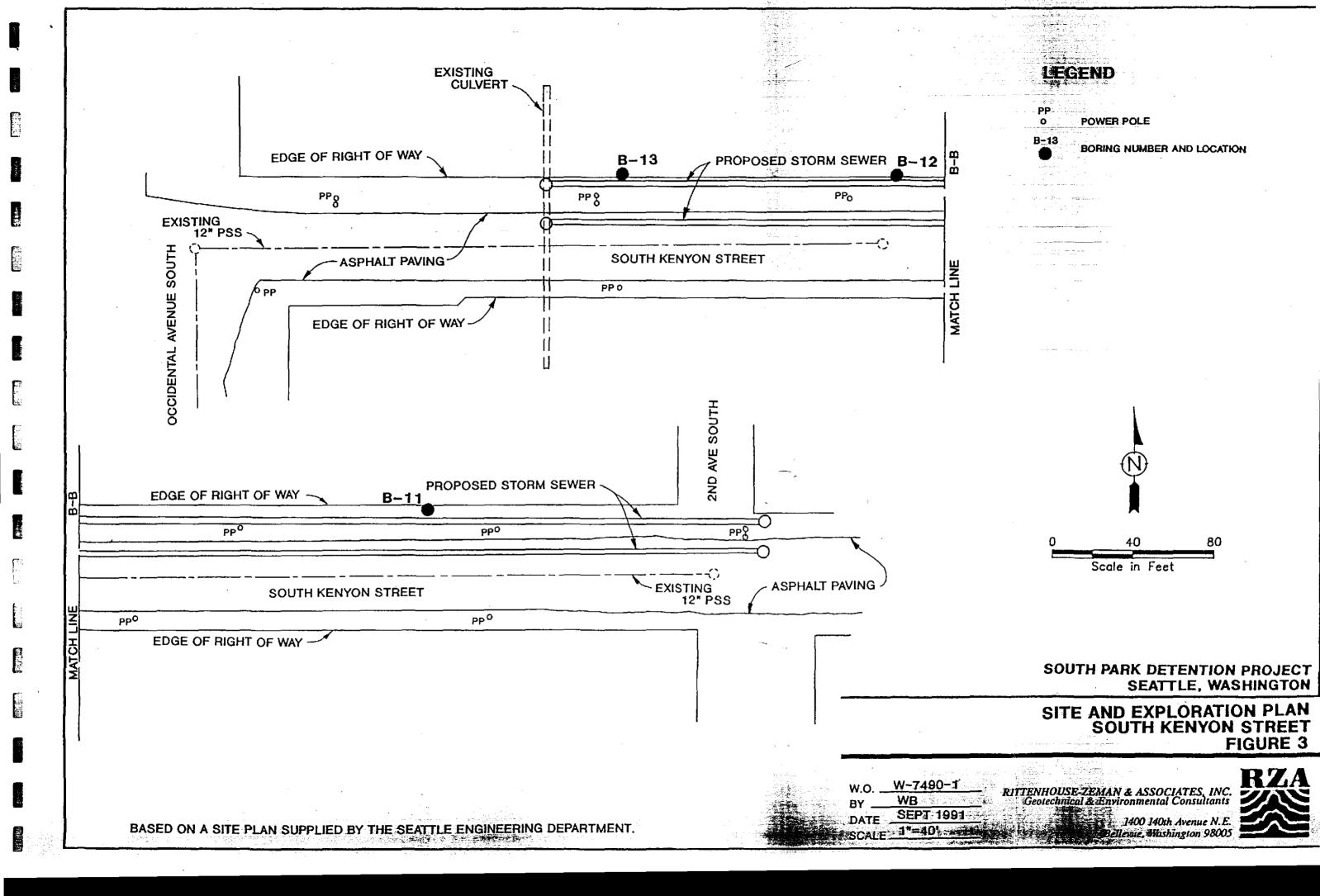
3.0

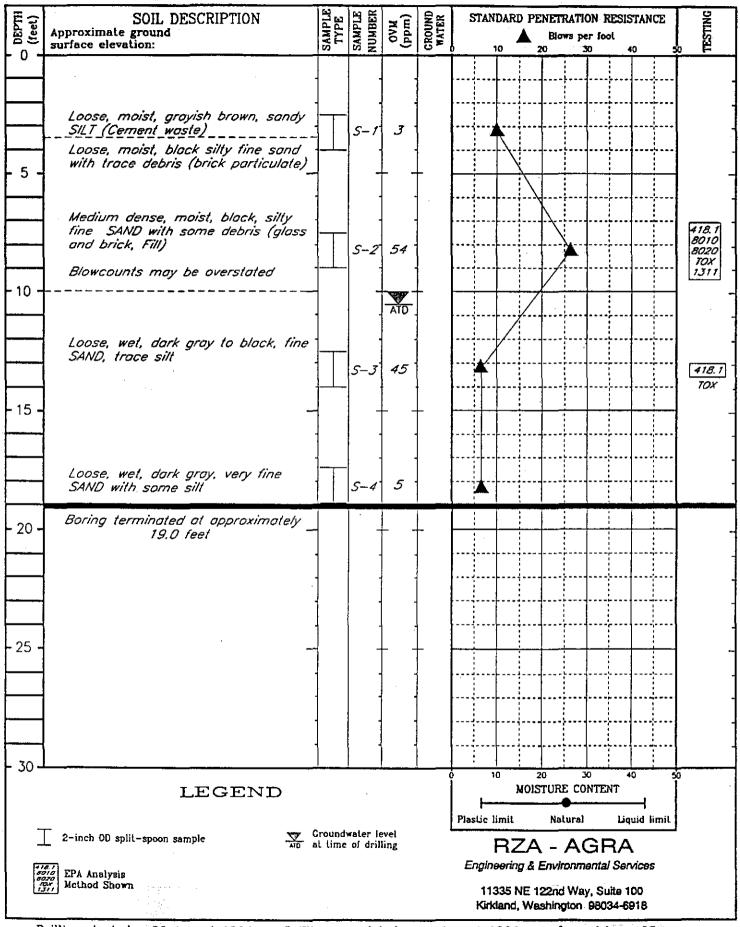
TP-4

SM/SP

13





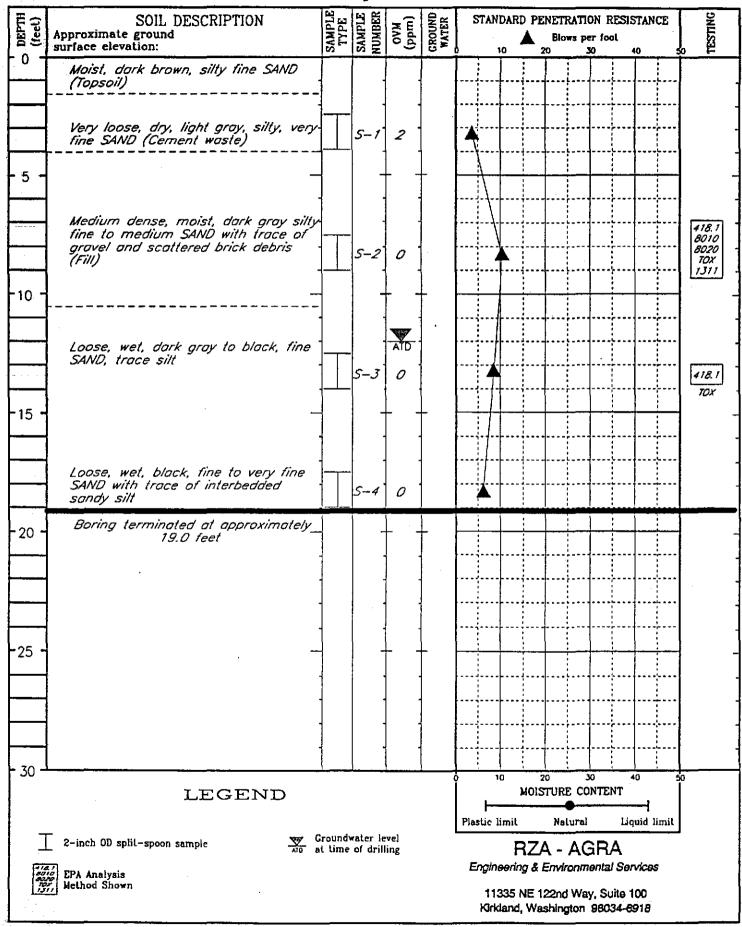


Drilling started: 20 August 1991

Drilling completed: 20 August 1991

Logged by: CS

#### PROJECT South Park Detention Project W.O. W-7490-1 BORING NO. B-10



Drilling started: 20 August 1991

Drilling completed: 20 August 1991

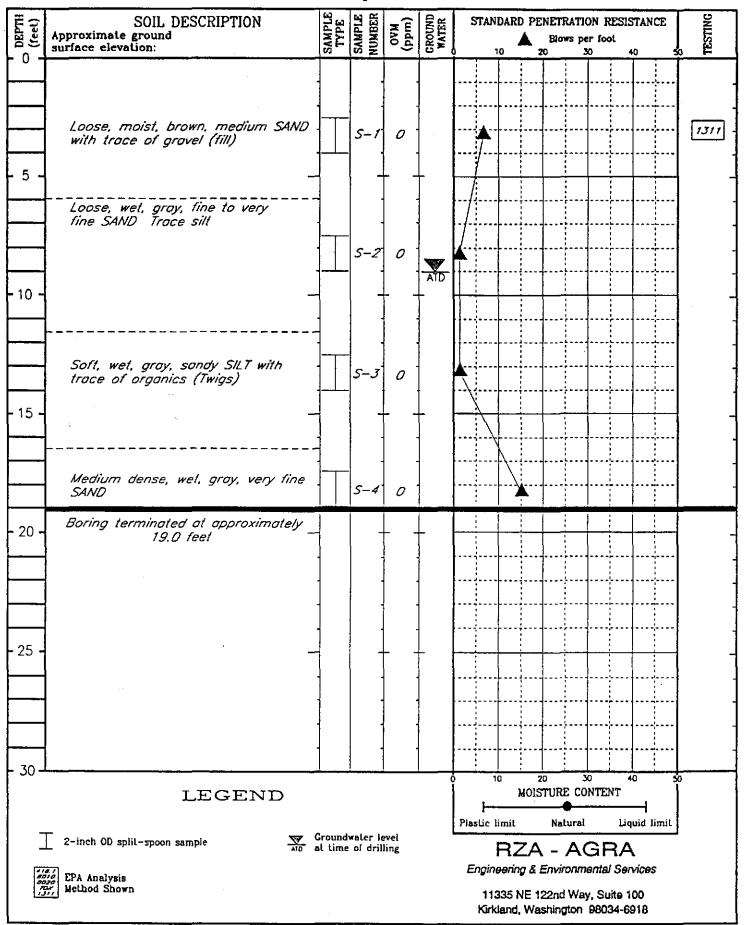
Logged by: CS

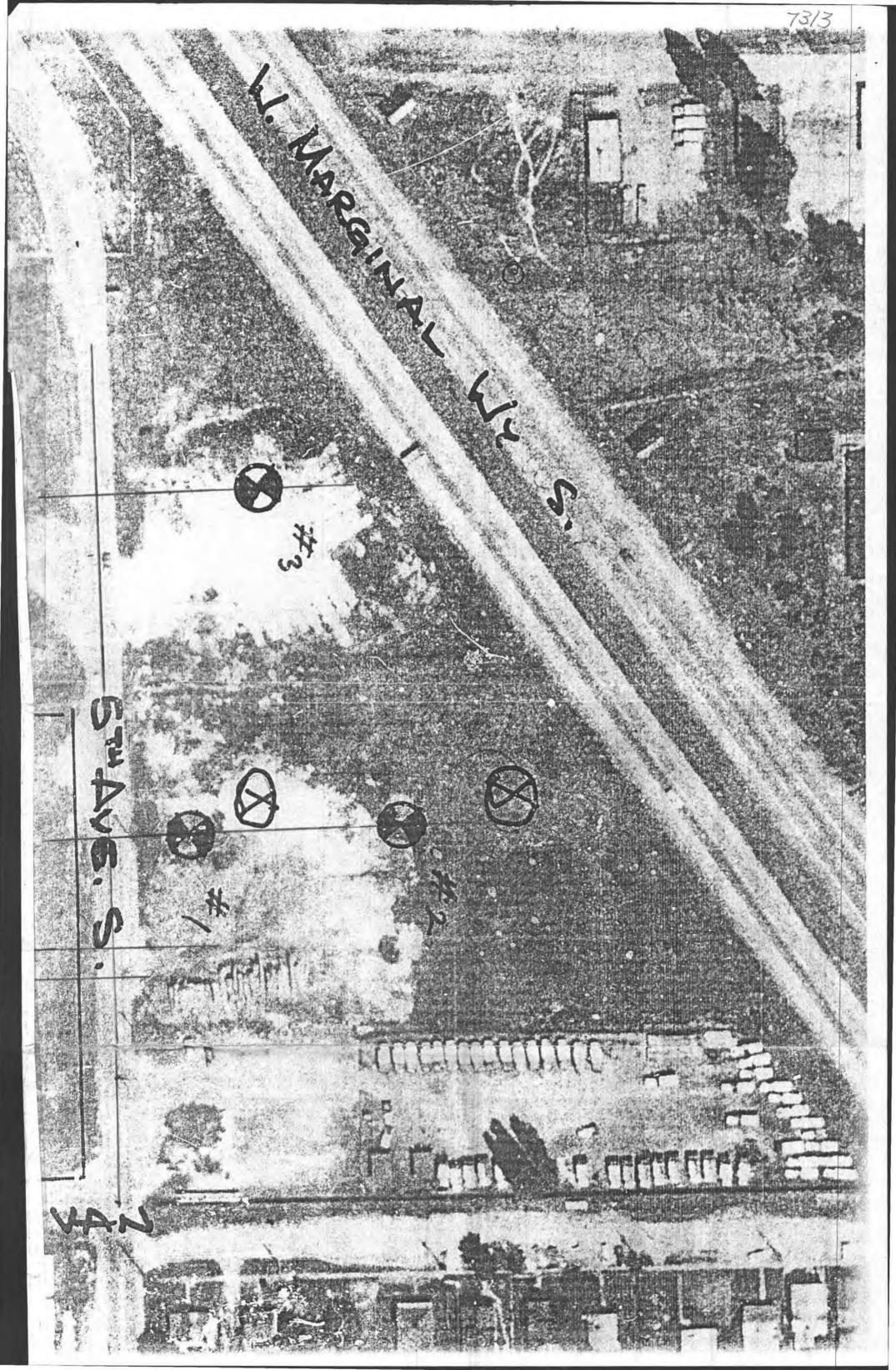
DEPTH (feet)	SOIL DESCRIPTION Approximate ground	HPLE IPE	SAMPLE NUMBER	OVM (ppm)	GROUND	STANDARD PE	NETRATION RESI	SMINCE	TESTING
- 0 -	surface elevation:	SA	8 5	ق٥	85	10 2		40 5	, <u>E</u>
	2 inches asphalt	1	}						
	•	}							
		†							1
	Loose, dry, brown, medium SAND . with trace gravel (FiII)	1	5-1	0		*	<del> </del>		1511
<del>  </del>		┝┸╸			}	<b>{</b> }}	<del> </del>		
- 5 -	Loose, dry, gray, fine to very fine, sandy SILT	-	-	<del>-</del>	-	<del>                                     </del>	<del>                                     </del>	╁╸╪╸┦	-
<b></b>		{		-	}	}			
		]	} .		[				
					ļ				
	Stiff, moist, gray-red mottled, sandy SILT	1	5-2	0		<b>A</b>			1
	Solidy Sizi		]	•					! 1
- 10 -		1	-	_	<u> </u>				- 1
	Medium dense, wet, dark grey, fine	1			{	l	<del> </del>		1
	SAND, troce silt	·			{	} <del>-</del>		·[	-{
<del> </del>	•	1	5-3	0	}	· · · · · · · · · · · · · · · · · · ·	ļļ	.	
	Loose, moist, grayish-brown,	}	}	<b>.</b>		1		.	
- 15 -	Loose, moist, grayish—brown, medium to fine SAND with a trace of silt	]	} _	_					
	U Sit		} .		}				}
		ſ							]
		<del></del>	]	]	}				1
	Loose, moist, gray, fine to very fine, silty SAND	1	5-4	0					-
- 20 -	Boring terminated at approximately		}					]	
[ 20 ]	19.0 feet -	]	}						1
		1	}		}				
		ł		-	}			1	1
		{		-	}	···	<del> </del>		}
		{	} -	-	}				4
- 25 -		-	} -			<b></b>	<del>                                     </del>	<del></del>	4
		į			}				1
		{	[ .						<u> </u>
	·	}	{		}				<b>! !</b>
					] .				1
		}	{	1	( 				1
F 30 J		<del>'</del> -	<u></u>	<u></u>	<u></u> -		= =	40 5	0
{	LEGEND					Mois	TURE CONTENT		l
1						Plastic limit	Natural Lie	quid limit	
			water le of dril			R7/	A - AGRA		
177	<u> </u>			-			Environmental Se	rvices	ł
7/1 20 00 7/1	EPA Analysis Method Shown						22nd Way, Suite :		
							shington 98034-6		
	the state of the s								

O DEPTIII (feet)	SOIL DESCRIPTION Approximate ground surface elevation:	SAMPLE	SAMPLE NUMBER	0VM (ppm)	GROUND WATER	STANDARD PENETRATION RESISTANCE  Blows per fool  10 20 30 40 50 H
	Dry, dark brown, silty fine SAND (Topsoil)			3		
5 -	No recovery, geology inferred: Loose, dry, brown, medium SAND (Fill)	X	5-1	0		
			-			
	Soft, moist, gray SILT with a trace of sand, organics and gravel		5-2	0		418.1
10 -	Soft, wet, gray, sandy SILT with a				AID	
	trace of organics (Twigs)		5-3	0		
- 15 -			-	-	-	
	Loose, wet, brownish gray, sandy SILT, interbedded with sitty fine san		5-4	0		
20 -	Boring terminated at approximately 19.0 feet		-	-	-	
25 -			- -		<u> </u>	
		- - - - - - -	     			
30		1	-			0 10 20 30 40 50
	LEGEND					MOISTURE CONTENT  Plastic limit Natural Liquid limit
I ×	Sample not recovered	roundwal Lime of PA Analy	drilling sis			RZA - AGRA Engineering & Environmental Services
	[757] X	ethod St	IOWI)			11335 NE 122nd Way, Suite 100 Kirkland, Washington 98034-6918

Drilling started: 20 August 1991 Drilling completed: 20 August 1991

Logged by: GS





CS 7.241

### LOG OF TEST BORING

DATE 8	-15-7	2				HOLE NO.
PROJECT _	Dog	POUND	-	ANIMAL	SHELTER	GRD. ELEV
LOCATION	45 Ft	E Power	Pole	PER	PLAN	

ATA DEPT		SAM	PLE		BLOW	,	STD.	DESCRIPTION OF	MATERIAL			WATER
DEP	7	N			COUN	T	PEN.	COMPOSITION	CONSISTENCY	MOISTURE	COLOR	LEVEL
	-							Burk Brn sitty SAND Manage	12		1	
											Mixed	
	4		A	1	2	5	7	5ilty SAND W/trace brick 35H 2" Comen + waste	Lanse	moist	white ben 2-ny	
5	-	-						Lenen was to				
	-		B	3	5	4	9	WOOD mined w/silty SAND	Loose	wet	Wach	
	-											
			C	5	9	4	15	WOOD & black fine-med SAND	finm	met	black	
	-											₩ 3-10
	-	10000	D	_	-/		1	ORGANIC SILT w/voot	very soft	sat	400	7 ~
20	-					H		Bott I" black fire-med				STIE
							•	heured 13"	7			PISSOMISTISTS JUSTALLED
	-	H	_	<b>A</b> .				trace -		-		d'E
25	-	_	E					Black fine-med SAND				
	-											
	-			1								
	-		1.4				1					
	7											1

INSPECTOR ACRICE

#### (Feb

CS 7.241

### LOG OF TEST BORING

	PRO	JEC.	T	_)	29		Poul	ND - ANIMAL SHE	LTER	G	RD. ELEV		
	roc	ATIO	_ NC		PE	- F	PL	7H					
T		SAA	APLE		BLOW		STD.	DESCRIPTION C	F MATERIAL				<b>VATER</b>
۱ ا	DEPTH		O.		COUN		PEN.	COMPOSITION	CONSISTENCY	MOISTURE	COLOR		LEVEL
1								white Cement waste					
												]	
												]	
	<u></u>		A	2	21	31	52	very fine Cement waste	_	noist	white	]	
	<b>-</b>												
												]	
	_										<u> </u>		
3	10-		$\mathcal{B}$	17	37	21	58	very fine Cement Waste		moist	white		
7					ļ							] ]	
						ļ	<b></b>					↓	
旨	_											۱	
╡	-					ļ			-			1 + 4	_ 3 8
∄,	15		۷		2	5	7	fine -med. SAND	Loose	moist	black	]	
								<u> </u>				4	
	- 4										<u> </u>	-	
j	4					<u>.</u>			rent	,		H	
	20-	Z	A		_	/	2_	ORGANIC SILT to	soft	wex	6-7		R
	-					-		PEAT			1	1 1	
	4										ļ. · · · · · · · · · · · · · · · · · · ·		200
	4									<u> </u>	<u> </u>		INTRI COMETER
	. 4					41	ļ	12" PEAT	soft		brn	1 8	: K
=	25		E	ر	usi	7		6" Fin med SAND	Soft	wet	black	1	
	4	.						و المراجدة المراجدة المراجدة المراجدة المراجدة المراجدة المراجة المراجدة ال		sut		11	
	4							heaved 12"			· ·	1	
	4		$\vdash \dashv$		-							1	
	-					-	-				<u> </u>	1	
1	30	+			<u> </u>	-						11	

C8 7.241

### LOG OF TEST BORING

DATE 8-16-72		HOLE NO.
PROJECT Dog Pound	- ANIMAL SHELTER	GRD. ELEV.
LOCATION PER PLAN		

TA DEPTH	SA	MPLE		BLOW		STD.	DESCRIPTION O	F MATERIAL			WATER
DEPIR		10.		COUN.		PEN.	COMPOSITION	CONSISTENCY	MOISTURE	COLOR	LEVEL
							Brn sandy SILT				
							m/gravel				
<u>  </u>											
							TOD 4" SILT				
<b>]</b>		A	2	2	1	3	silty SAND w/gravel	Loose	moist	Bon	
<b>///</b> _		B	1	1	4	5	sitty SAND w/some	Loose	mais +	Brn	
_ (((	Н	<u></u>					w/ SLAG				
_ (((	1									Bon	
≝ -	2	ے	-/	<u> </u>	2	3	5://y SAND 3" fine-ned SAND	Loose	moist	m/g ~y	
≣ル-		L_								black	
= -		$\mathcal{D}$	3	4	5	9	fine-medium SAND	Loose	tip met	black	
_									TIP WET		4 8-16
		<u> </u>						Ver		black	- 8 - \
=		E		_ /	-	/	ORGANIC SILT, fine SAND	20th	sat	ben	
<u> </u>		<u> </u>					\$ Very fine SAND Layers		1		1
		F	Pu.	14	/	/	fire-med SAND W/occ.	Loose	sat	black	
		<u></u>									İ
<b>=</b> -	1	6	0		/	2	f-m SAND you thin		sat	Wack	A a
= -		2		/	/		SILT Layer	Loose	5a7	-/ack	PIEROMETER
<b>⊒</b> ≥∽		H	1/	2	4	<u>د</u>	f-n SAND -/ 3"Layer	1	sat	Wack	A S
=		/7			7	•	17-17 1/ 5 CAYER	Course	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(CH
-		-				· · · · ·					
-											
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INSPECTOR ACRICA

CS 7.241

### LOG OF TEST BORING

DATE 8-	-/6-7	2				HOLE NO
PROJECT	Dos	POUND	_	ANIMAL	SHELTER	
	D	T), 4.1				

ATA	DEPTH		MPLE		BLOW		STD.	DESCRIPTION C	OF MATERIAL			WATE
		'	<b>40</b> .		COUN.	T	PEN.	COMPOSITION	CONSISTENCY	MOISTURE	COLOR	LEVE
								Brn silty SAND & WOO	· <b>2</b> )			
	_										Mixed	
	_		A	2	16	11	27	clayer sand, 51LT		moist	gray	
	5-				<del>                                     </del>		<del> </del>				brn	
	_		B	8	8	11	19	MOOD		meist	brn	
		H				ļ						
	_	-	<u></u>		· .	<u> </u>		Rubber & Wood on	Ayens		<u> </u>	
		╽┝	<u>_</u>	В	4	3	7	No Recovery				
	10-			<u> </u>		<del> </del>	3	Broom & Was D		_ \	white	·
	-		D	1	2	<u> </u>	>	PAPER & WOOD W/OIL		moist	Hack	
	_					-						
	_		E	0		1	2	GADRAGE PARES		- 1	Black	
	-	-	<del></del>		/	<del>  _</del> _		GARBAGE PAPER		moist	Red	
	15-		7	5	5-	2	7	WOOD & PAPER WOIL		maist	Black	
							Ĺ				brn	
								WIRE, OIL,				
	_		S	3	4	۵	10	PAPER NOOD SAND		moist	ban &	
	20-								ļ			
	_		14	6	10	7	ソフ	WOOD & ORGANICS		moist	black	
	_	H						•				
	_	9						=		<u> </u>	Gray -	¥ 8-
	_	-	14	2	4	1_	s	CLAY-SICT & PAPER		met	Walk	[
	25-	H	-				-	<i>V</i> . $\Omega$				
	_		2	12	/	2	3	No Recovery				
er neet	-							<b>E</b> 1 -			7	PIE
	_		K	1	H	2		FILMOUS ORGANIC SILT	20ft News	wet	6	INST
	-	丰			-			- Heward 18" @ 29	± a			8.10
2	30-		1									415

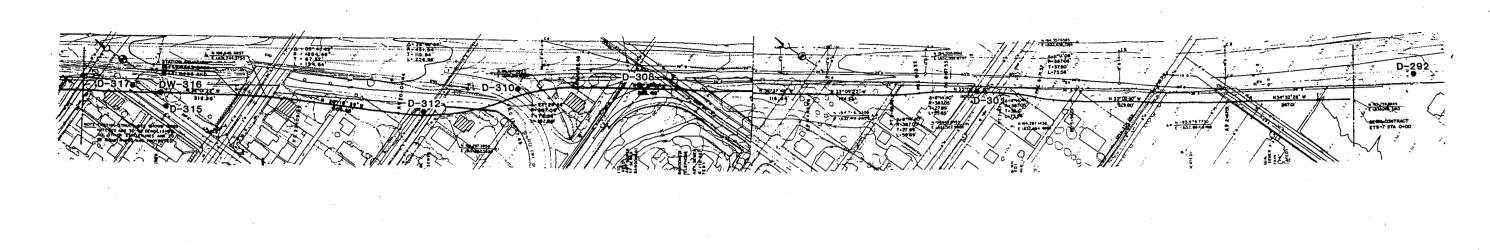
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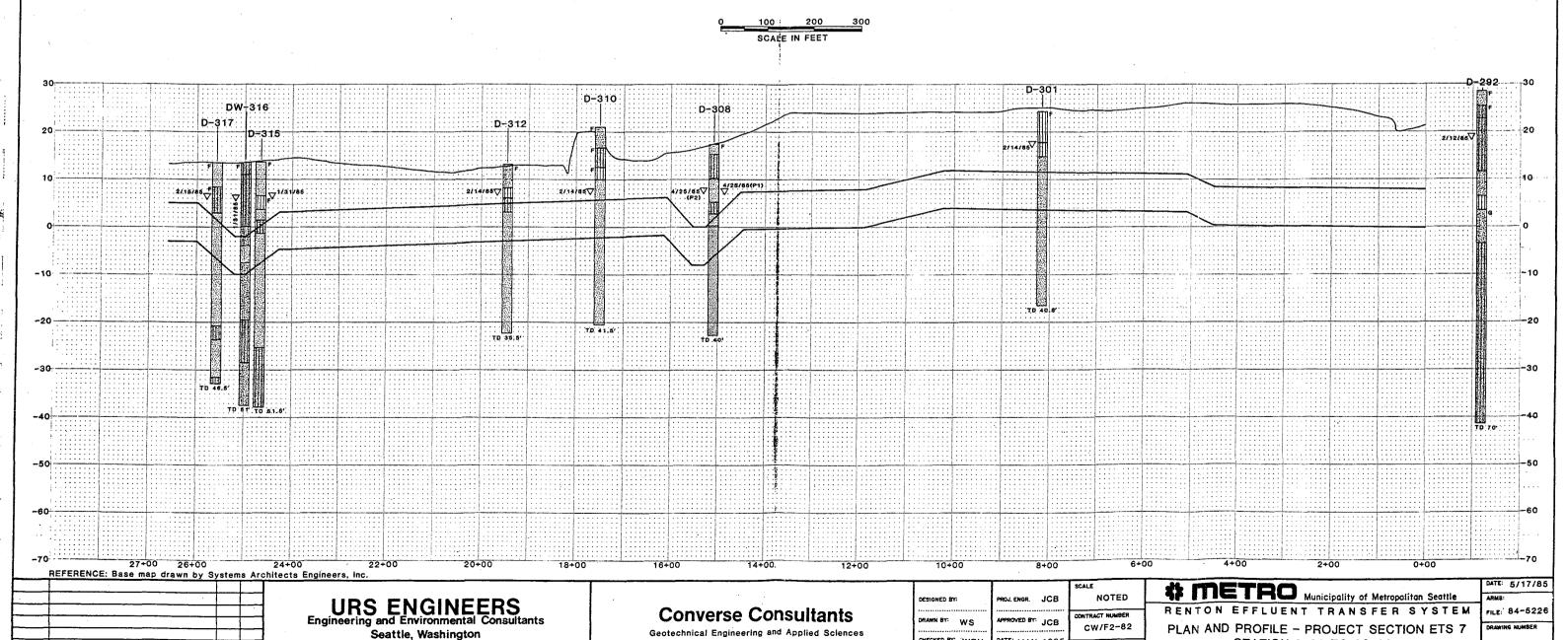
CS 7.241

### LOG OF TEST BORING

DATE 8 - 16 -	72			HOLE NO.
PROJECT	s found	 ANIMAL	SHELTER	GRD. ELEV
	D D AL			

DEP	TH	SAN	PLE		BLOW		STD.	DESCRIPTION O	F MATERIAL			WATE
DEP			O		COUNT		PEN.	COMPOSITION	CONSISTENCY	MOISTURE	COLOR	LEVE
								BEN SUTT SAND &				
								WOOD \$ STEEL				
	4								,			
	1		A	3	3	8	11	SITY SAND YERARL	FIRM	MAIST	CRAY	
	5			1,				SOME WOOD, ROCK IN SOW TI	P			
	-		B	16	6	11	17	WOOD & PAPER	<u> </u>	MOIST		
	$\dashv$		٥	6	3		4	SILT SAND & GRAVEL.	1	N	GRAY	
	9	-		0			-4-	WOOD & CLOTH	LOSE	Moist	-047	
			0	ح	15	20	35	WOOD & PAPER FGARRAGE		WOIST	GRAY	
	}	4									GREEN	
												}
			E	1	2	3	5	WOOD DAPER METAL		MOIST		
3 13	5			<u> </u>	ļ .						WHITE	1
		1	F	5	16	28	44	WOOD WY SILTY SAND \$	ļ	MOIST		
	1				<u> </u>			GRAVIL IN TIP			fgaul	
	-		6					4 - 4 - 4				
		H	_	11	6	\	7	SAND & GRAVEL YEILT	1	MOIST		
9 2	ġ.		H	6	6	10	16	WOOD & CREOSOTE IN	118	Moist	BLACK	
	-	4	, FT	9		Ų	"	WOOD		MOISI	CRAY	1
			I	4	8	11	15	WOOD		MOIST	a expe	
2	5				ļ .							
	4	4	J	1 /	2	3	5	WOOD & SHELL CHIPS		SAT	BUK	
	+				-			WOOD CHIPS		500	BEN	4 8
	_		K	apri .								1 × 8
			"	2	3		7	WOOD CHIPS		SAT	Ben	7 \$ 9
] =	<u> </u>					21)			VERY	=	es i	4 8 8
	_		1 - 3 ° °	Γ'			<u> </u>	SILT YSOME WOOD	SAPT	SAT	BEY	164



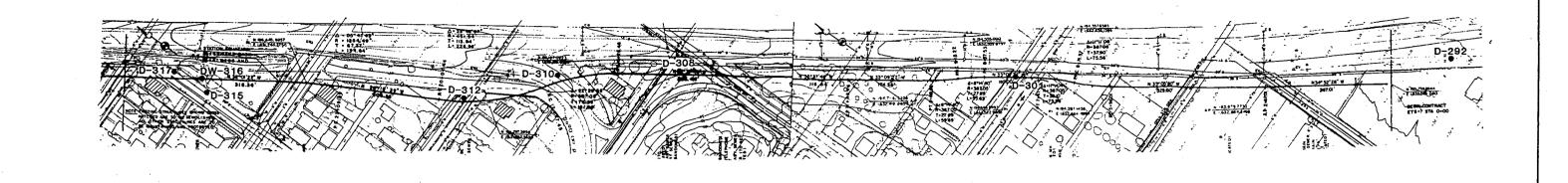


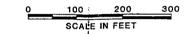
CHECKED BY: WRH

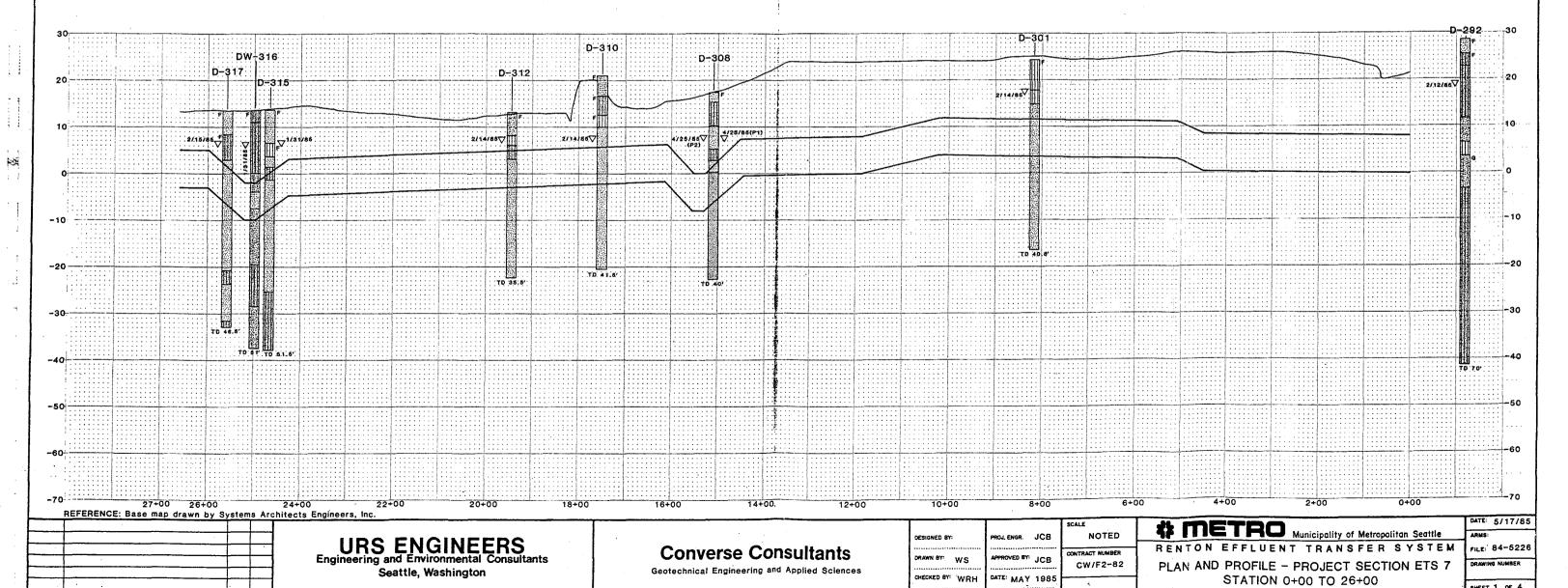
DATE: MAY 1985

STATION 0+00 TO 26+00

SHEET 1 OF 4







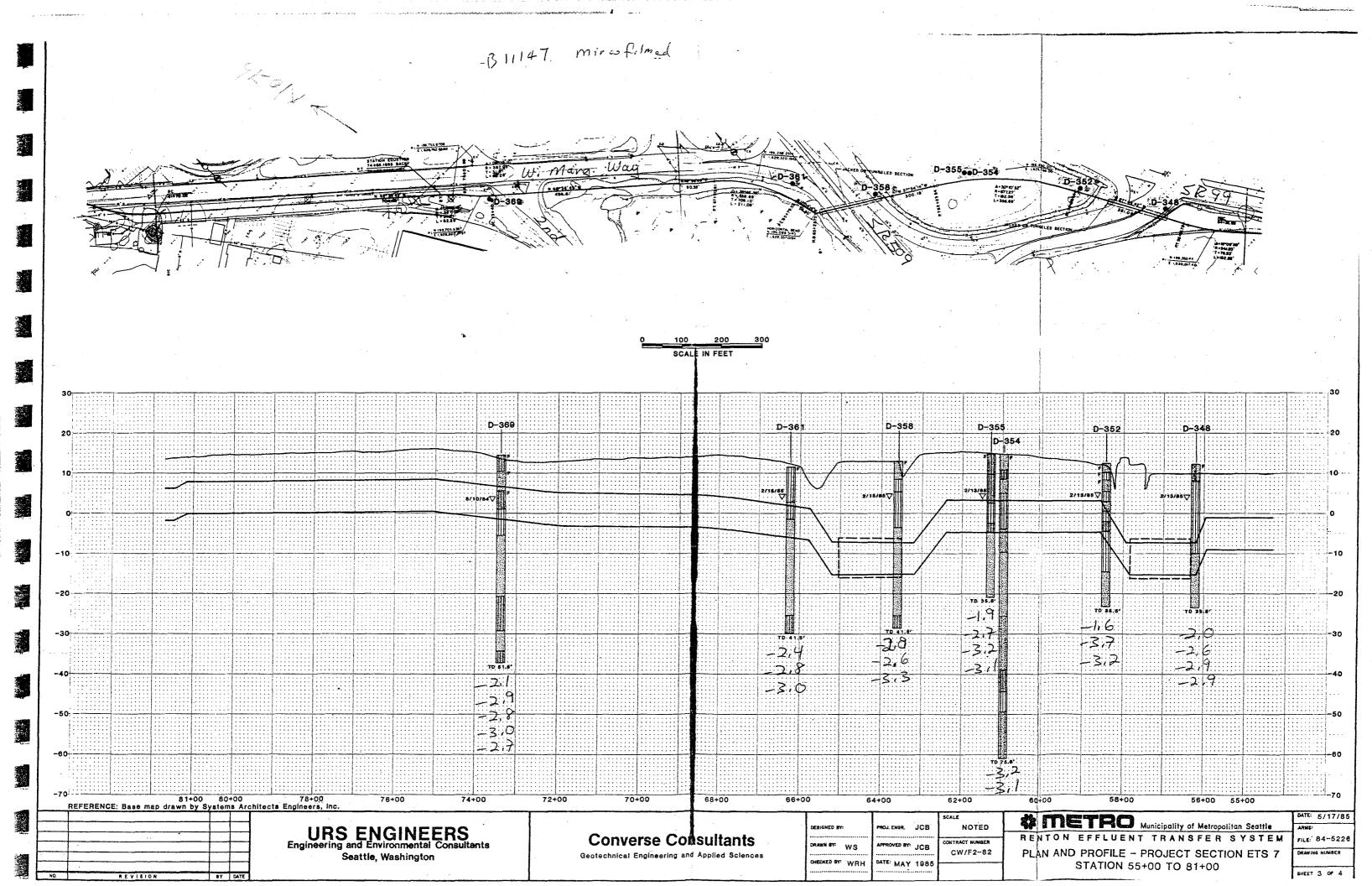
Geotechnical Engineering and Applied Sciences

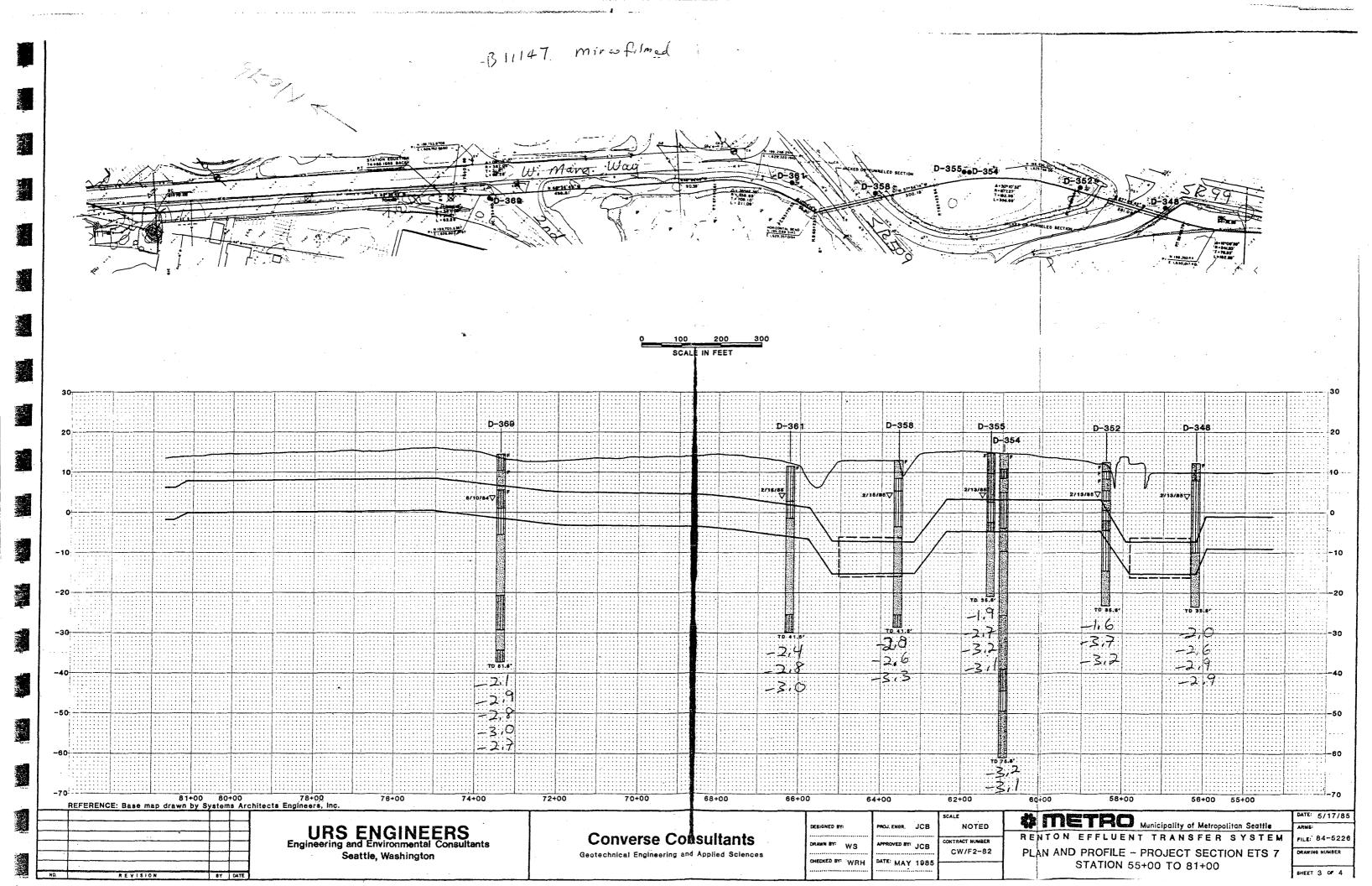
CHECKED BY: WRH

DATE: MAY 1985

SHEET 1 OF 4

Seattle, Washington





### **BORING LOG LEGEND**

#### **GRAPHIC REPRESENTATION**

00.0

SANDY GRAVEL, GRAVEL AND SAND

0 0 0 0

GRAVELLY SAND, SAND AND GRAVEL

SAND

SILTY SAND, SAND AND SILT

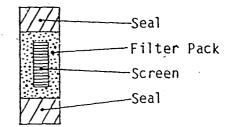
SANDY SILT, SILT AND SAND

SILT, CLAYEY SILT SILTY CLAY, CLAY

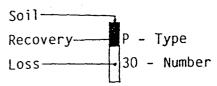
SEDIMENTARY ROCK

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" 0.D. split spoon sampler driven with 140 lb. surface hammer with 30" drop
- SS 2" 0.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" 0.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
- 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

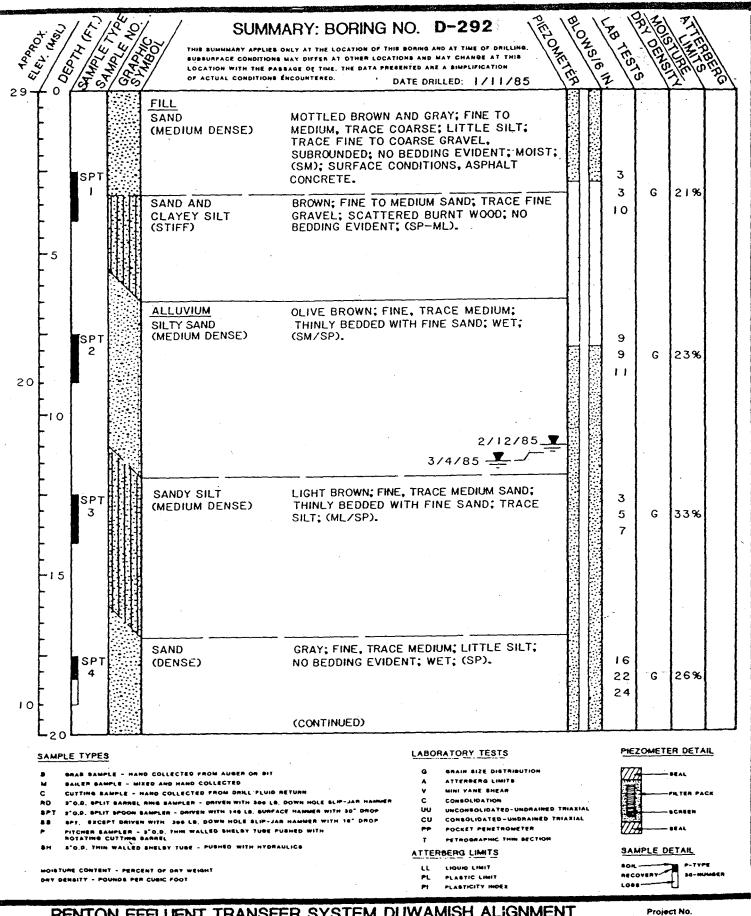
Silty clay, clay

Rock

Sandstone, siltstone

Basalt, andesite

	<b>XMETRO</b> Municipal	ity of Metropolitan Seattle	
DATE FEB 85	URS ENGINEERS	Converse Consultants	SCALE
BY WES	RENTON EFFLUENT	FILE NO.	
APPROVED JCB	EXPLANATION	OF SYMBOLS	SHEET OF



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for METRO

275-05G

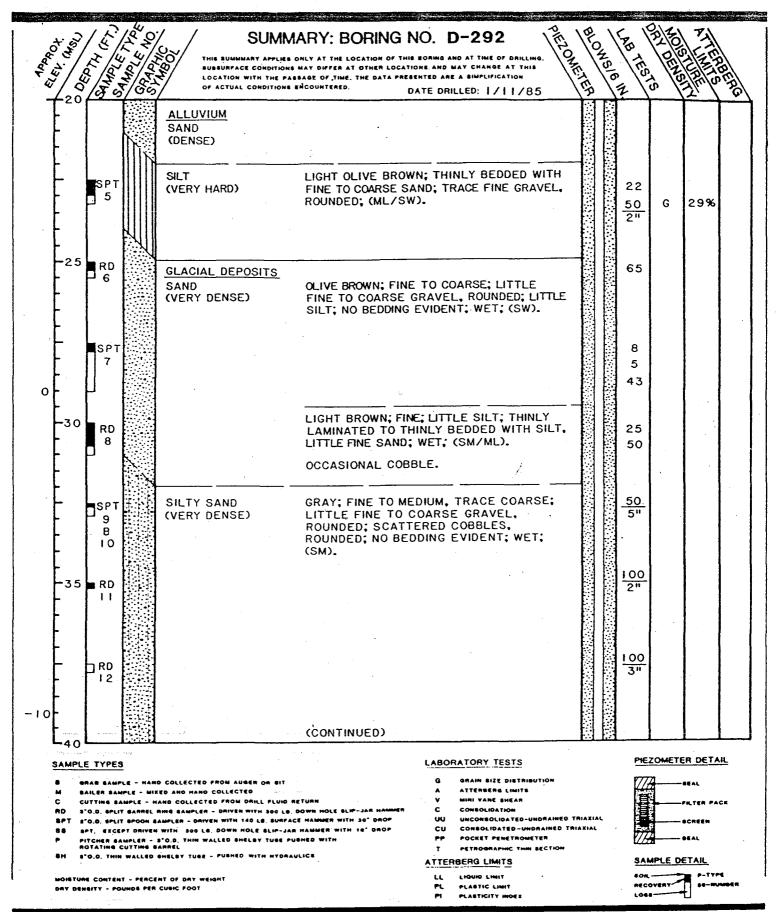
Drawing No.

GEO/RESOURCE CO
Geologists/Geophysicists/Geotechnical Engineers

GEO/RESOURCE CONSULTANTS, INC.

A-2

23



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington

Project No.

275-05G



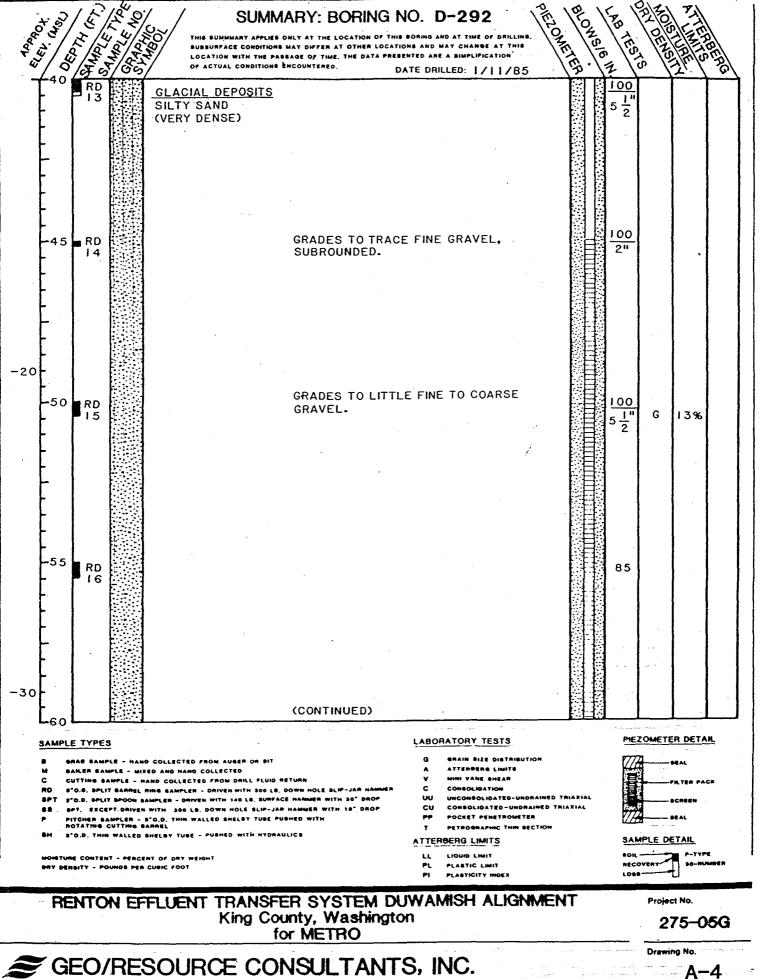
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for METRO

**≆** GE

1

GEO/RESOURCE CONSULTANTS, INC. Geologists/Geophysicists/Geotechnical Engineers



4040 TO 1979		33	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SUMMARY: BORING NO. D-292  THIS BUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT TIME OF DRILLING. BUSBURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PABBAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.  DATE DRILLED: 1/11/85	WS B TES	3 3	
	-60	■ RD 17		GLACIAL DEPOSITS SILTY SAND (VERY DENSE)	75 3"		
					138 138 138 138 138 138 138 138 138 138		
- - -	-65	■ RD 18			75 4"		
-	•						
· o  -	70	RD 19		SAMPLE 19: UNSUCCESSFUL DUE TO DOWNHOLE SLIP JAR HAMMER CAUGHT AGAINST THE SIDE OF THE HOLE.		·	
ŀ				TOTAL DEPTH. 70.0 FEET.			
F				PIEZOMETER:			
	•			THREE QUARTER INCH DIAMETER PVC. SEAL DEPTH: 3.0 TO 8.0 FEET. SCREEN DEPTH: 45.0 TO 65.0 FEET.			
-	·75	-					-
† †							
-  -  -							
-			77.1				
	80 l	TYPES		LABORATORY TESTS	PH	EZOMETE	R DETAI
* M	•		LE - HAN	D COLLECTED FROM AUGER OR BIT G BRAIN SIZE DISTRIBUTION RED AND HAND COLLECTED A ATTERBERG LIMITS	Z	<b>7</b>	DEAL

- PITONER BAMPLER 8"O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL
- S"Q.D. THIN WALLED SHELSY TUSE PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT

- POCKET PENETROMETER

#### ATTERBERG LIMITS

- LIQUID LIMIT
- PLASTIC LIMIT



#### SAMPLE DETAIL

L086-

### RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT

King County, Washington for METRO

Project No.

275-05G

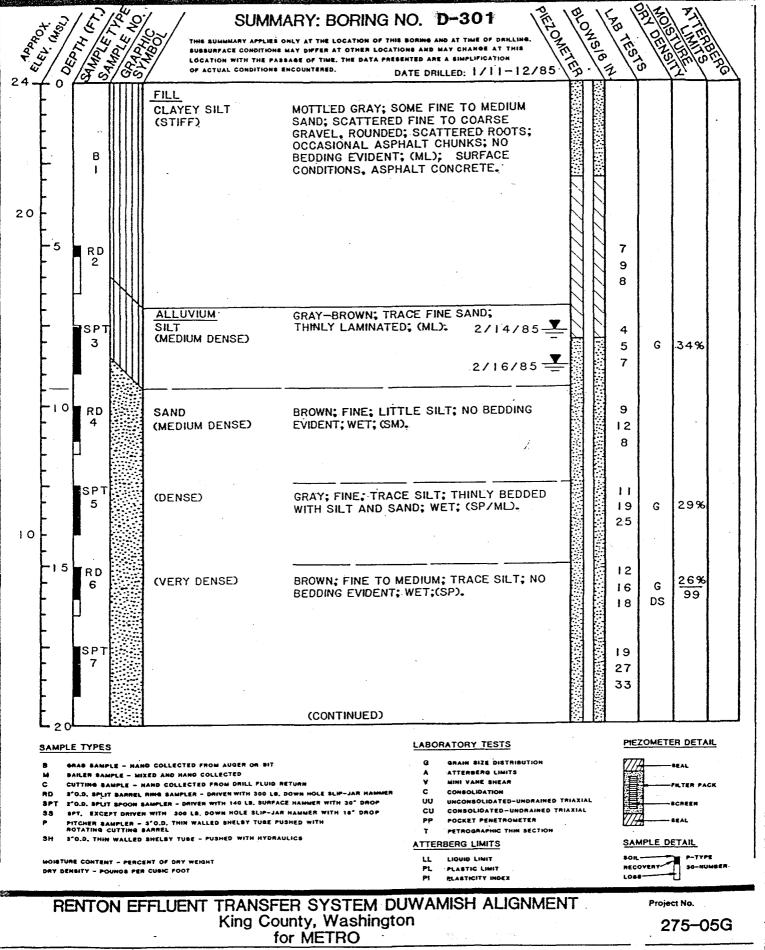
Drawing No.



GEO/RESOURCE CONSULTANTS, INC.

A-5

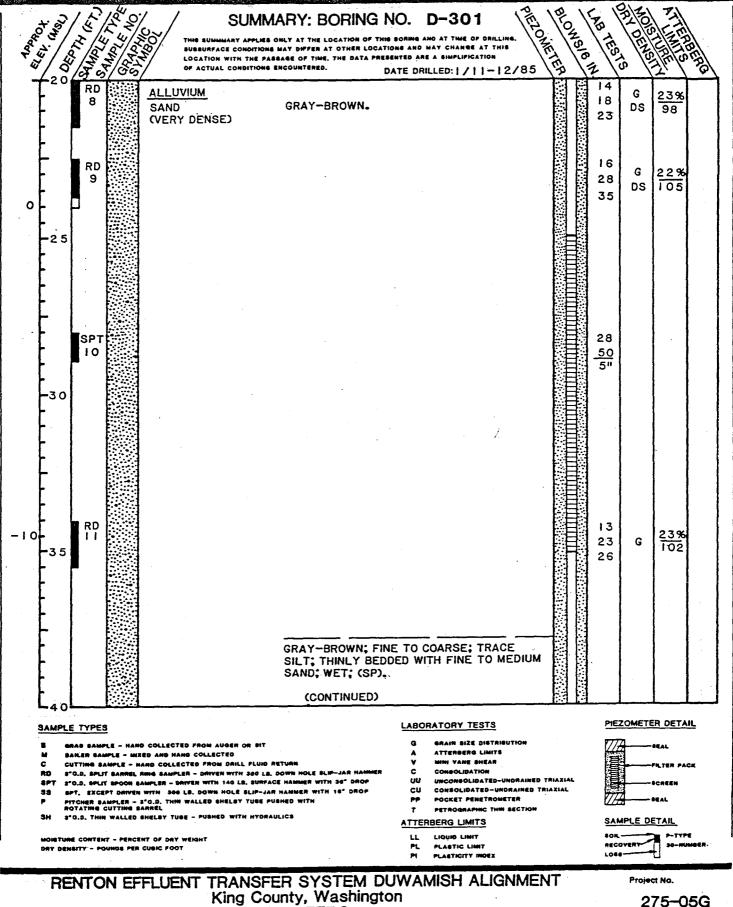
Geologists/Geophysicists/Geotechnical Engineers



Drawing No.



GEO/RESOURCE CONSULTANTS, INC.



for METRO

Drawing No.

#### RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington

for METRO

Project No.

275-05G

Drawing No.

**A-8** 

Geologists/Geophysicists/Geotechnical Engineers

GEO/RESOURCE CONSULTANTS, INC.

12.3

SUMMARY: BORING NO. D-308 THIS SUMMMARY 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 DATE DRILLED: 3/20-21/85 OF ACTUAL CONDITIONS ENCOUNTERED. FILL brown; fine to medium; trace SAND silt: no bedding evident; (SP) (loose) **ALLUVIUM** mottled gray, brown; fine SANDY SILT (medium dense) sand: scattered roots and branches: no bedding evident; (ML) grades to laminated with RD clayey silt 2 16 12 9 dark gray; fine to medium; 10 SPT SAND 11% G trace silt; occasional lam-(medium dense) inations of sandy silt; very moist to wet; (SP) scattered fine gravel, 10 (P2)4/25/85 ∑ subrounded RD (P1) 4/25/85 4 gray; fine to medium; thinly SANDY SILT 0 bedded with sand; (ML) SP. (very loose) 0 31% 1 SAND dark gray; fine to medium; 15 trace silt; scattered sand-(medium dense) 12 23% RD stone fragments; occ. thin 13 G 102 6 laminations of clayey silt; 16 wet: (SP) **BPT** BEDROCK dark green; fine; unweathered; 50/ 0 SANDSTONE 3" occasional thin laminations (medium hard of organic debris at 50° from 100 to hard) 1 horizontal; widely fractured 100 PIEZOMETER DETAIL (Continued) LABORATORY TESTS SAMPLE TYPES GRAIN SIZE DISTRIBUTION GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT ATTERREDG LIMITS BAILER SAMPLE - MIXED AND HAND COLLECTED MINI VANE SHEAR CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN FILTER PACK CONSOLIDATION 3"O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER 2"O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP บบ UNCONSOLIDATED-UNDRAINED TRIAXIAL SCREEN CONSCLIDATED-UNDRAINED TRIAXIAL CU SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 16" DROP POCKET PENETROMETER PITCHER SAMPLER - 3"O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL PETROGRAPHIC THIN SECTION 3"O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS SAMPLE DETAIL ATTERBERG LIMITS LIQUID LIMIT MOISTURE CONTENT - PERCENT OF DRY WEIGHT RECOVERY-30-NUMBER PLASTIC LIMIT LOSS RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT Project No.

RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for METRO

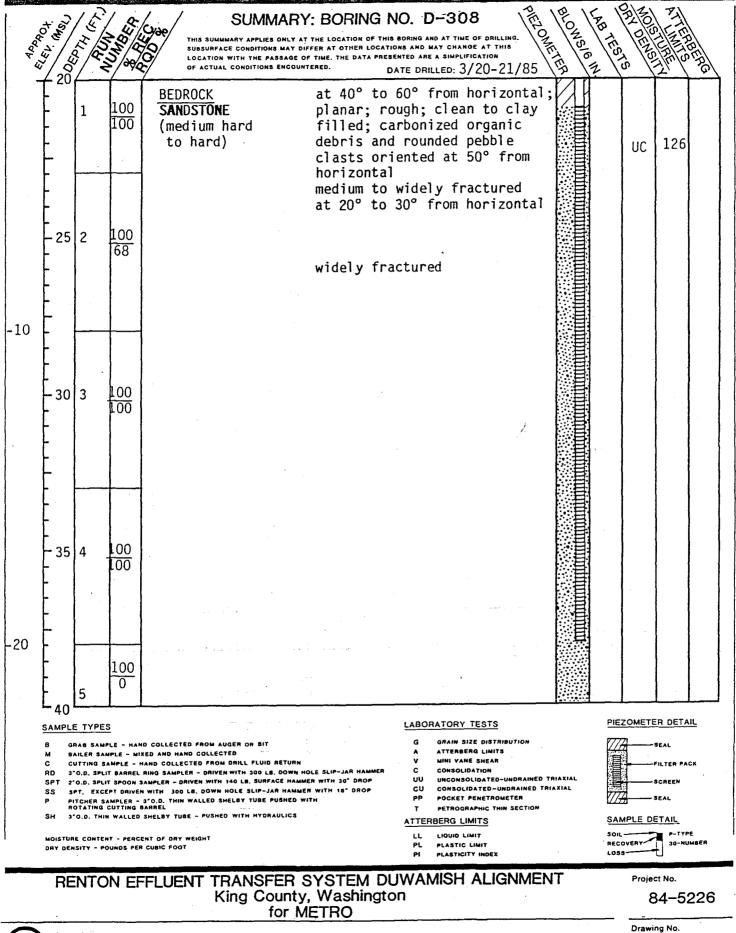
84-5226

Drawing No.



**Converse Consultants** 

Geotechnical Engineering and Applied Sciences



10   12   10   10   10   10   10   10	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	TESTS OFFICE THE
	Total depth, 40.0' Piezometer 1: 3/4" dia. PVC Screen depth: 12' to 15' Seal depth: 0' to 2'	
	Piezometer 2: 3/4" dia. PVC Screen depth: 21' to 38' Seal depth: 17' to 21'	
MPLE TYPES  GRAB SAMPLE - HAND COLLECT BAILER SAMPLE - MIXED AND H		PIEZOMETER DETAI

# RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for METRO

Project No.

SAMPLE DETAIL

RECOVERY

84-5226

P-TYPE 30-NUMBER

Drawing No.

**Converse Consultants** 

SH 3"O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS

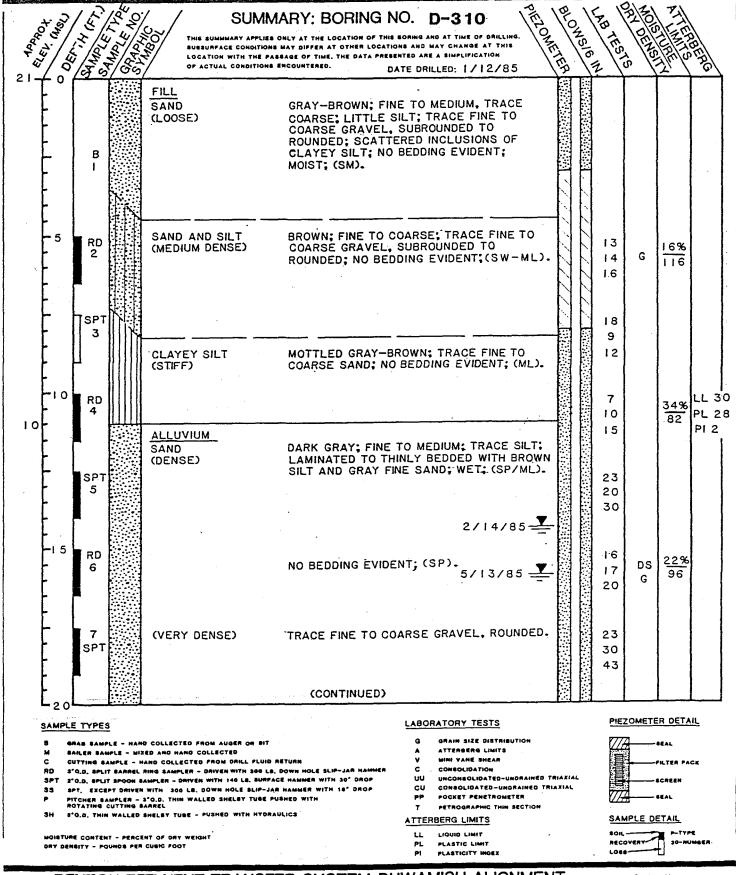
MOISTURE CONTENT - PERCENT OF DRY WEIGHT DRY DENSITY - POUNDS PER CUBIC FOOT

Geotechnical Engineering and Applied Sciences

ATTERBERG LIMITS

LIQUID LIMIT

PLASTIC LIMIT PLASTICITY INDEX



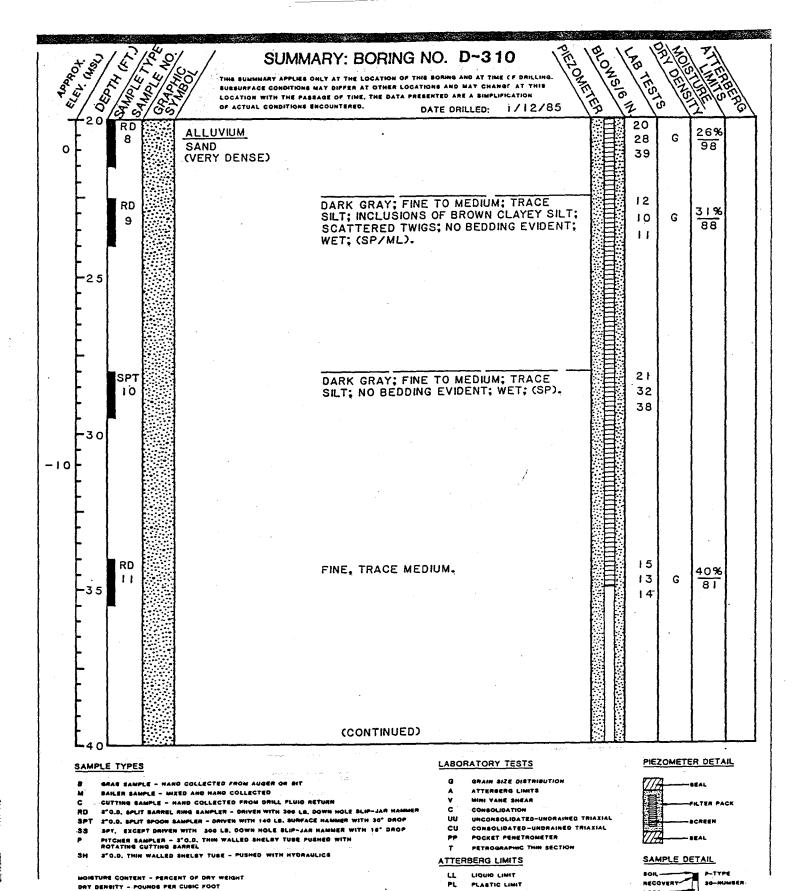
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for METRO

Project No.

275-05G

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Drawing No.



PLASTICITY HOEX

Project No.

275-05G

Drawing No.

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Geologists/Geophysicists/Geotechnical Engineers

FIETO NO.		10 10 10 10 10 10 10 10 10 10 10 10 10 1	THIS SUMMMARY APP SUBSURFACE CONDIT LOCATION WITH THE	MMARY: BORING LIES ONLY AT THE LOCATION OF THOMS MAY DIFFER AT OTHER LOCE E PASSAGE OF TIME, THE DATA PI	THIS BORING A 1D AT TIME ATIONS AND SAY CHAN RESENTED ARE A SIMPLE	O PRILLING.	BLOWS	LAB TES	AN DELS	ATTER LEASE	AET I
-20	SPT 12	\$/&s	ALLUVIUM SAND (VERY DENSE)	GRADES COAR	SER.	1/12/85	(%)	19 28 38	0,	21	6
				TOTAL DEPTH, PIEZOMETER:	41.5 FEET.						
F - -		į		SCREEN DEP	IAMETER PVC. TH: 20 10 35 3 TO 8 FEET.	FEET.					
45											
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-  -  -				*							
-									-		
E			7 7 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								

#### SAMPLE TYPES

- GRAS SAMPLE HAND COLLECTED FROM AUGER OR SIT
- BAILER SAMPLE MIXED AND HAND COLLECTED
- CUTTING SAMPLE HAND COLLECTED FROM DRILL FLUID RETURN
- 2°0.D, SPLIT BARREL RING SAMPLER DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMEI 2°0.D. SPLIT SPOON SAMPLER DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30° DROP SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18° DROP
- PITCHER SAMPLER 3"O.D. THIN WALLED SHELBY TUGE PUGHED WITH ROTATING CUTTING BARREL
- 3"O.O. THIN WALLED SHELBY TUBE PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT DRY DENSITY - POUNDS PER CUBIC FOOT

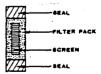
#### LABORATORY TESTS

- GRAIN SIZE DISTRIBUTION
- ATTERGERG LIMITS
- MINI VANE SHEAR COMBOLIDATION
- UNCONSOLIDATED-UNDRAINED TRIAXIAL
  - CONSOLIDATED-UNDRAINED TRIAXIAL
- POCKET PENETROMETER PETROGRAPHIC THIN SECTION

#### ATTERBERG LIMITS

- LIQUID LIMIT
- PLASTIC LIMIT
- PLASTICITY INCEX

#### PIEZOMETER DETAIL



#### SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington

for METRO

Project No.

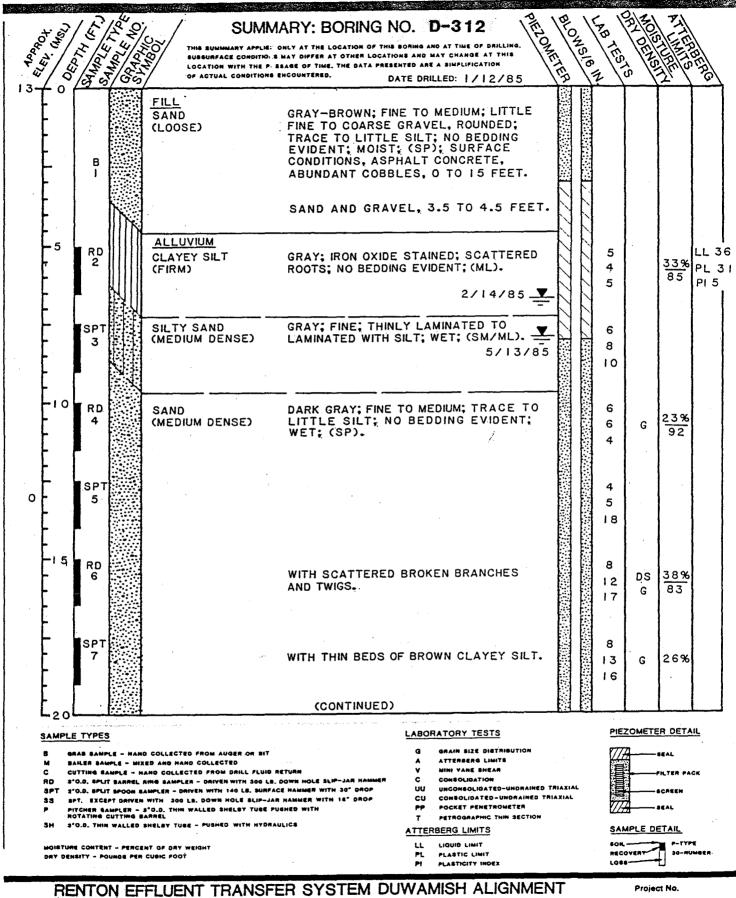
275-05G

Drawing No.



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Geologists/Geophysicists/Geotechnical Engineers



King County, Washington for METRO

275-05G

Drawing No.



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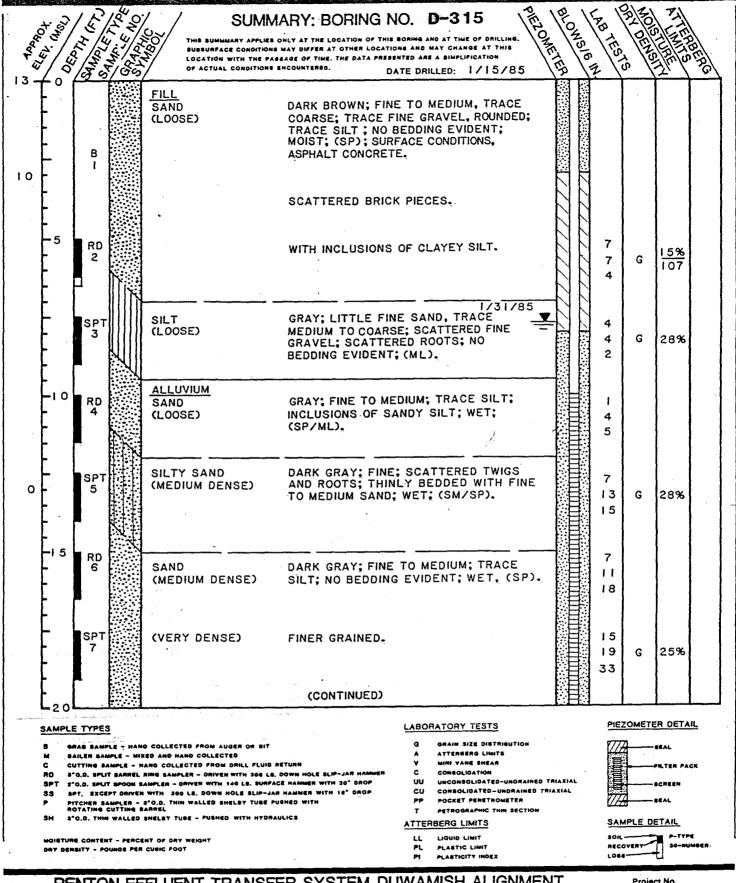
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Drawing No. -

Geologists/Geophysicists/Geotechnical Engineers

GEO/RESOURCE CONSULTANTS, INC.

A - 16



Project No.

275-05G

Drawing No.

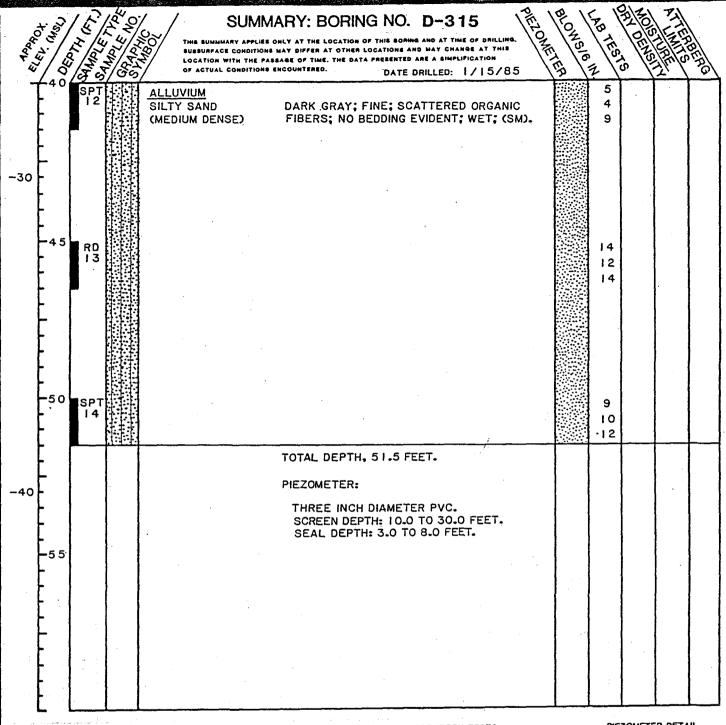
GEO/RESOURCE CONSULTANTS, INC. Geologists/Geophysicists/Geotechnical Engineers

for METRO

Drawing No.

GEO/RESOURCE CONSULTANTS, INC.

Geologists/Geophysicists/Geotechnical Engineers



#### SAMPLE TYPES

- GRAS SAMPLE HAND COLLECTED FROM AUGER OR SIT MAKER MAMPLE - MIXED AND HAND COLLECTED
- CUTTING SAMPLE HAND COLLECTED FROM DRILL FLUID RETURN
- 2"O.B. SPLIT BARREL RING SAMPLER ORIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER 2"O.B. SPLIT SPOON SAMPLER ORIVEN WITH 140 LB. SURFACE HAMMER WITH 30" SROP SPT
- SPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP 33
- PITCHER SAMPLER 3°O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING SARREL
- 3"O.D. THIN WALLED SHELBY TUBE PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DRY WEIGHT DRY DENSITY - POUNDS PER CUBIC FOOT

#### LABORATORY TESTS

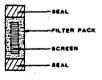
- GRAIN SIZE DISTRIBUTION
- ATTERBERG LIMITS
- MINI VANE SHEAR
- COMBOLIDATION
- UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CONSOLIDATED-UNDRAINED TRIAXIAL CU
- POCKET PENETROMETER PETROGRAPHIC THIN SECTION

#### ATTERBERG LIMITS

- LIQUID LIMIT
- PLASTIC LIMIT

#### PLASTICITY INDEX

#### PIEZOMETER DETAIL



SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for METRO

Project No.

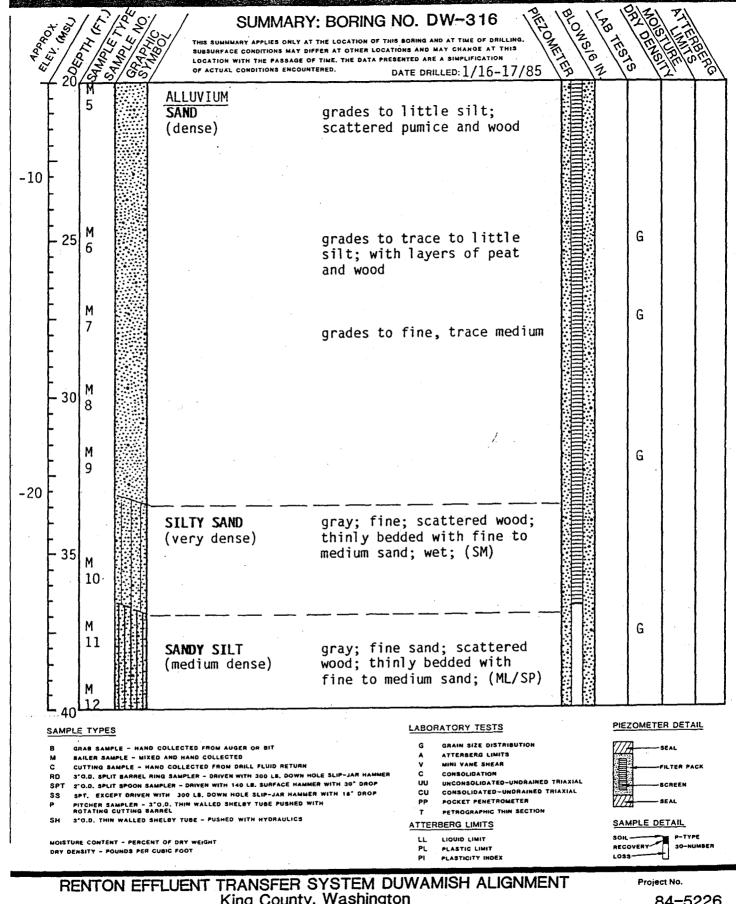
275-05G

Drawing No.



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Geologists/Geophysicists/Geotechnical Engineers



King County, Washington for METRO

84-5226

Drawing No.



**Converse Consultants** 

Geotechnical Engineering and Applied Sciences

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	Ĺ		LAN CONTRACTOR	THIS SUMMARY APPLE	MMARY: BORING NO. D-317 ES ONLY AT THE LOCATION OF THIS BORING AND AT THE OF DRILLING. HONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF	BLOW	18 1º			
13.				SUBSURFACE CONDITION LOCATION WITH THE ACTUAL CONDITIONS	IONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF ENCOUNTERED.  DATE DRILLED: 6/17 - 6/18/84	ETE I	LAB TEST	3 /3		RO RO
		B		FILL SAND (LOOSE)	LIGHT BROWN; FINE TO MEDIUM; TRACE SILT; TRACE FINE TO COARSE GRAVEL. ROUNDED; TRACE INCLUSIONS OF GRAY SILT; NO BEDDING EVIDENT; MOIST; (SP).	wantanananana				
	-									
	-5 -	R D 2		SILTY SAND (LOOSE)	LIGHT BROWN; FINE TO MEDIUM; SCATTERED INCLUSIONS OF SILT; NO BEDDING EVIDENT; MOIST TO WET; (SM).	SSECTION OF	5 4 4			
	  -  -				2/15/85					
	-  -  -				7/12/84 👤					
	-10 -	RD 3		ALLUVIUM	GRAY; FINE, TRACE MEDIUM; TRACE SILT; TRACE FINE GRAVEL; SCATTERED		0			
	  -  -	μ		SAND (VERY LOOSE)	SILT; TRACE FINE GRAVEL; SCATTERED INCLUSIONS OF SILT; NO BEDDING EVIDENT; WET; (SP).	88888	0			
0		RD 4		(LOOSE)	DARK GRAY; FINE TO MEDIUM.	9333333344J	5 7 8	G	27% 98	
	-15	SPT				1100000	15			
	<u>-</u>			(DENSE)		H102 CEV	17 L4			
		R D 6					7 12 14 15 27	ء جمر		
	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

Drawing No.



0	SS	80	ACTUAL CONDITIO	THE PASSAGE OF TIME. THE DATA PRESENTED ARE A SIMPLIFICATION OF HIS ENCOUNTERED.  DATE DRILLED: 6/17 - 6/18	PEZOME 8/84	ONSIGN		9 /a	3/20/0	,\\\\\ 
	RD 16		ALLUVIUM SANDY SILT (MEDIUM DENSE)	GRAY; FINE SAND, TRACE MEDIUM; NO BEDDING EVIDENT; (ML).			4 6 9	G	<u>31%</u> 92	
ı	·			TOTAL DEPTH, 46.5 FEET.		1				
				PIEZOMETER:						
				THREE INCH DIAMETER PVC. SCREEN DEPTH: 35.0 TO 45.0 FEET.						
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NOTE: SEE SORING LEGEND FOR EXPLANATION OF SYMBOLS, AND CLASSIFICATION SYSTEM.

RENTON EFFLUENT TRANSFER SYSTEM King County, Washington for METRO

GRC Project No.

275-4G

Drawing No.



1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALLUVIUM SILT (LOOSE)	 GRAY-BROW ROOTS AND EVIDENT; (N	N; LITTLE FI		CATTERED		ES N N S	DS C	41%
		TOTAL DEPT		т.			3		
		PIEZOMETER	:						
5		SEAL DEP	I DIAMETER F TH: 3 TO 8 I EPTH: 10 TO	FEET.					
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		· · · · · · · · · · · · · · · · · · ·							
						-			

- GRAD GAMPLE HAND COLLECTED FROM AUGER OR BIT
- SAMER SAMPLE MIXED AND HAND COLLECTED
- CUTTING SAMPLE HAND COLLECTED FROM DRILL FLUID RETURN
- S'O.D. SPLIT BARREL RING GAMPLER DRIVEN WITH See LE. DOWN HOLE SLIP-JAR HA
- 2'O.B. SPLIT SPOON SAMPLER DRIVEN WITH 148 LB. SURFACE HAMMER WITH 30" DROP
- BPT, EXCEPT DRIVEN WITH 305 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP PITCHER SAMPLER - 3"O.S. THIN WALLED SHELDY TUDE PUSHED WITH ROTATING CUTTING BARREL
- 8"O.B. THIN WALLED SHELBY TUBE PUSHED WITH HYDRAULICS

HOISTURE CONTENT - PERCENT OF DRY WEIGHT DRY DENSITY - POUNDS PER CUBIC FOOT

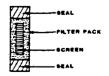
#### LABORATORY TESTS

- SRAIN SIZE DISTRIBUTION
- ATTERDERO LIMITO MINI VANE SHEAR
- COMBOLIDATION
- UNCONSOLIDATED-UNDRAIMED TRIAZIAL COMSOLIDATED-UNDRAINED TRIAXIAL
- POCKET PENETROMETER
- PETROGRAPHIC THIN SECTION

#### ATTERBERG LIMITS

- PLASTIC LIMIT
- PLASTICITY MOEX

#### PIEZOMETER DETAIL



#### SAMPLE DETAIL

RECOVERY-

RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT

King County, Washington for METRO

Project No.

275-05G

GEO/RESOURCE CONSULTANTS, INC.

Geologists/Geophysicists/Geotechnical Engineers

Drawing No.

SUMMARY: BORING NO. DM-327 THIS SUMMMARY 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 DATE DRILLED: 1/17-22/85 OF ACTUAL CONDITIONS ENCOUNTERED. **ALLUVIUM** NA SILTY SAND (medium dense) dark gray; fine to medium; trace to little silt; no 25 SAND SS (medium dense) 8 bedding evident; wet; (SP) NA -10 30 SS NA 9 grades finer 35 SS NA 10 Total depth, 36.5' -20 Piezometer: 4" dia. PVC Screen depth: 10' to 30' Seal depth: 0' to 5' PIEZOMETER DETAIL LABORATORY TESTS SAMPLE TYPES GRAIN SIZE DISTRIBUTION GRAB SAMPLE - HAND COLLECTED FROM AUGER OR BIT SAILER SAMPLE - MIXED AND HAND COLLECTED ATTERBERG LIMITS CUTTING SAMPLE - MAND COLLECTED FROM DRILL FLUID RETURN MINI VANE SHEAR RD 3"O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER CONSOLIDATION 2"O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30" DROP UU UNCONSOLIDATED-UNDRAINED TRIAXIAL SPT. EXCEPT DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP CH CONSOLIDATED-UNDRAINED TRIAXIAL POCKET PENETROMETER PITCHER SAMPLER - 3"O.D. THIN WALLED SHELBY TUBE PUBHED WITH ROTATING CUTTING BARREL PETROGRAPHIC THIN SECTION 3"O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS ATTERBERG LIMITS SAMPLE DETAIL LIQUID LIMIT MOISTURE CONTENT - PERCENT OF DRY WEIGHT DRY DENSITY - POUNDS PER CUBIC FOOT RECOVERY PLASTIC LIMIT PLASTICITY INDEX RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT Project No.

King County, Washington for METRO

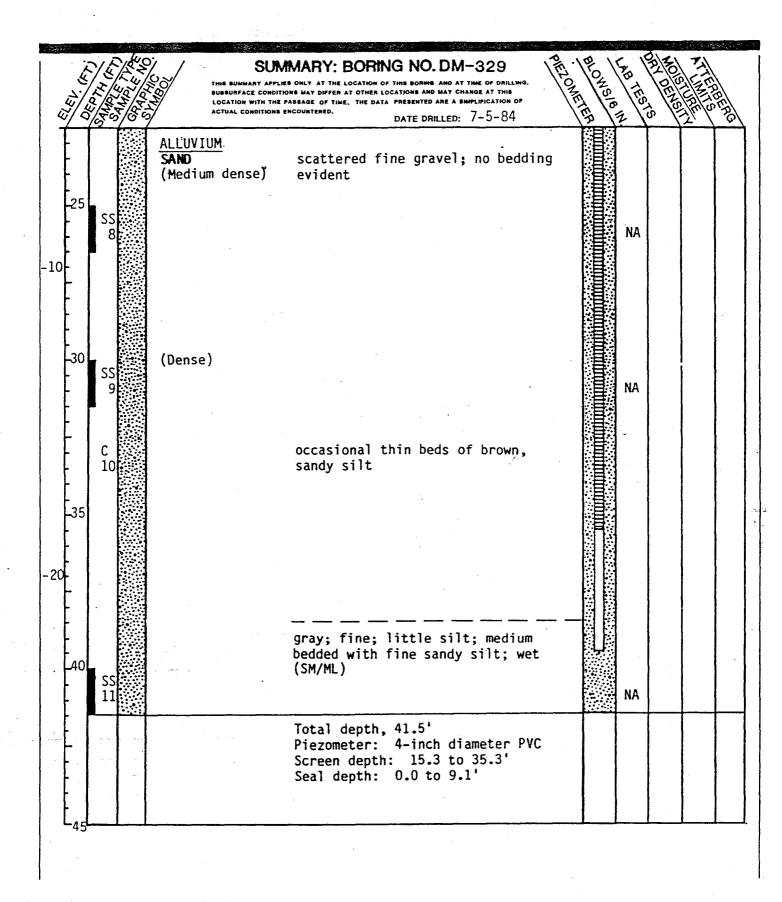
84-5226

Drawing No.



Converse Consultants

Geotechnical Engineering and Applied Sciences



Project No.

84-5164

Drawing No.



SUMMARY: BORING NO. DM-335 THIS SUMMMARY 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 URGANIC SILT NA SILTY SAND gray-brown; fine; scattered organics; no bedding evident; (medium dense) wet: (SM) gray-brown; fine to medium; SAND 25 trace to little silt; scat-(medium dense) tered fine to coarse gravel, NA SS subrounded; scattered 8 organics; no bedding evident; wet; (SP) -10 dark gray; fine to medium; 30 trace silt NA SS 35 SS NA 10 Total depth, 36.5' Piezometer: 4" dia. PVC Screen depth: 10' to 30' -20 Seal depth: 0' to 5' PIEZOMETER DETAIL LABORATORY TESTS SAMPLE TYPES GRAIN SIZE DISTRIBUTION GRAB SAMPLE - HAND COLLECTED FROM AUGER OF BIT ATTERBERG LIMITS BAILER SAMPLE - MIXED AND HAND COLLECTED CUTTING SAMPLE - HAND COLLECTED FROM DRILL FLUID RETURN MINI VANE SHEAR FILTER PACK RD 3"O.D. SPLIT BARREL RING SAMPLER - DRIVEN WITH 300 LB. DOWN HOLE SLIP-JAR HAMMER CONSOLIDATION 2"O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LB, SURFACE HAMMER WITH 30" DROP ш UNCONSOLIDATED-UNDRAINED TRIAXIAL SCREEM CONSOLIDATED-UNDRAINED TRIAXIAL 33 SPT, EXCEPT DRIVEN WITH 300 LB, DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP CU POCKET PENETROMETER PITCHER SAMPLER - 3"O.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING BARREL PETROGRAPHIC THIN SECTION 3"O.D. THIN WALLED SHELBY TUBE - PUSHED WITH HYDRAULICS SAMPLE DETAIL ATTERBERG LIMITS P-TYPE LIQUID LIMIT SOIL -MOISTURE CONTENT - PERCENT OF DRY WEIGHT RECOVERY 30-NUMBER DRY DEMSITY - POUNDS PER CUBIC FOOT PLASTIC LIMIT PLASTICITY INDEX RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT Project No. King County, Washington 84-5226

for METRO

Drawing No.

**Converse Consultants** 

Geotechnical Engineering and Applied Sciences

- RD	ALLUVIUM SAND	DATE DRILLED: 7-7-84	TOWELES WITH	9 7	ŝ V	21.	76
0-25 RD	(Dense)			9 17 19 21	G	25% 96	
	•	scattered organic fibers, roots, and broken twigs				90	
-30 RD				14 20 30			
35 RD				7 8 12			
SPT.	(Medium dense)	trace coarse sand; no organics		16 9 4			
-40 RD 12		medium bedded with silt		3 4 12	**************************************	. i	
		Total depth, 41.5' Piezometer: 3-inch diameter PVC Screen depth: 31.5 to 41.5' Seal depth: 8.0 to 10.0'	## 1	,			•

Project No.

84-5164

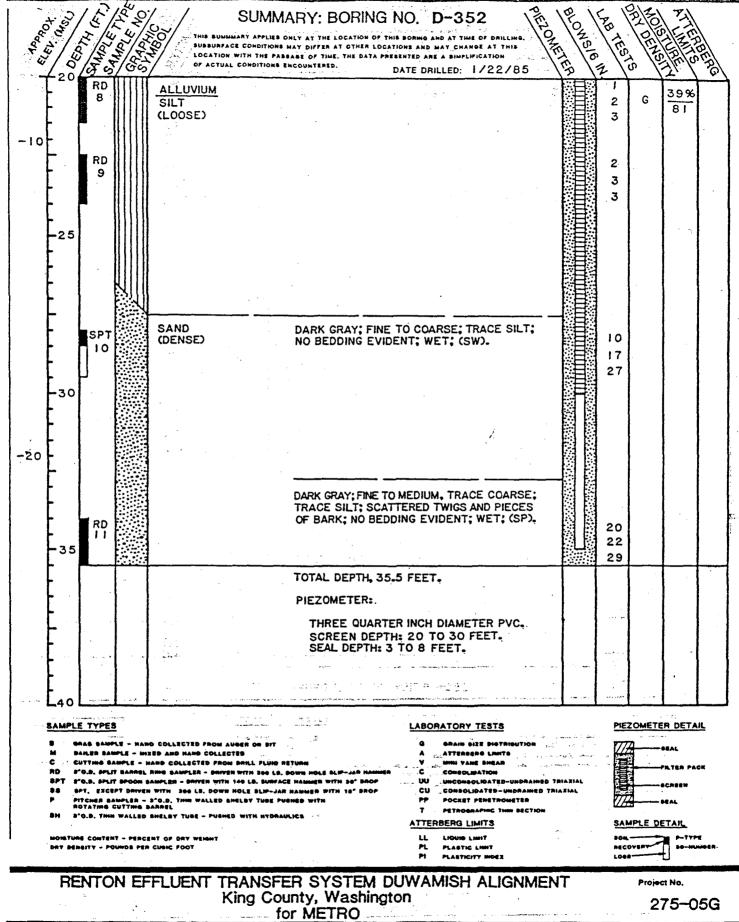


SUMMARY: BORING NO. TAND ROOM ROOM THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS SORING AND AT TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME, THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED. DATE DRILLED: 1/22/85 **ALLUVIUM** 18 ORGANIC SILT 16 (VERY LOOSE) -10 RD DARK GRAY; FINE TO MEDIUM; TRACE SILT; NO BEDDING EVIDENT; WET; (SP). SAND 15 DS 25% **WENSE** 19 96 21 25 13 SPT (VERY DENSE) 26 10 30 30 -20 RD 18 11 SCATTERED ORGANIC FIBERS. 20 25 TOTAL DEPTH: 35.5 FEET. PIEZOMETER: THREE INCH DIAMETER PVC. SCREEN DEPTH: 20 TO 30 FEET. SEAL DEPTH: 3.0 TO 8.0 FEET. SAMPLE TYPES LABORATORY TESTS PIEZOMETER DETAIL BAILER SAMPLE - MIXED AND HANG COLLECTED ATTERSERS LAWTS CUTTIME BAMPLE - HAND COLLECTED FROM BRILL PLUIS RETURN ---S'O.D. SPLIT BARREL SIME SAMPLER - DRIVEN WITH See LS. SOWN IN 2"O.D. SPLIT SPOON SAMPLER - BRIVEN WITH 146 LD. SURFACE HAMMER WITH 36" DROP UNCOMED INATED-UNDRAINED TRIAXIAL CU COMBOLIDATED-UMBRAIMED TRIAZIAL SPT, EXCEPT DRIVEN WITH See LB, DOWN HOLE SLIP-JAR HAMMER WITH 16" DROP PITCHER SAMPLER - 8"O.B. THIN WALLED SHELDY TUGE PURHED WITH ROTATING CUTTING SARREL POCKET PENETROWETER PETROGRAPHIC THIS SECTION S"O.D. THIN WALLED BHELBY TUBE - PUBHED WITH MYDRAULICS SAMPLE DETAIL ATTERBERG LIMITS COSTURE CONTENT - PERCENT OF DRY WEIGHT DRY DEHSITY - POUNDS PER CUBIC FOOT PLASTIC LIMIT RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for METRO Project No. 275-05G

GEO/RESOURCE CONSULTANTS, INC.

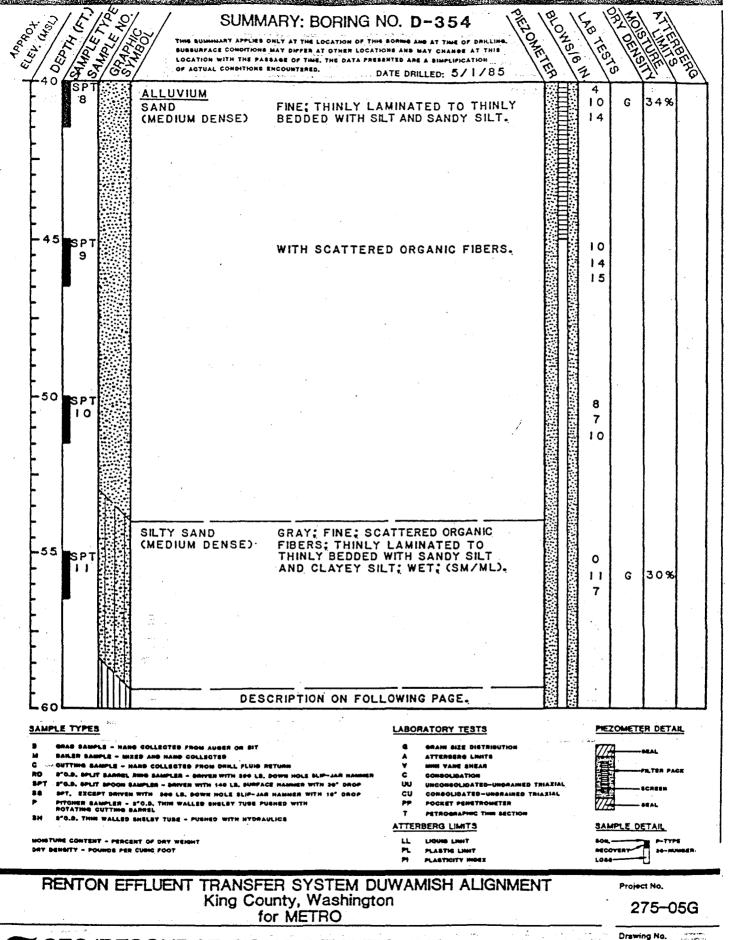
Geologists/Geophysicists/Geotechnical Engineers

Drawing No.



Drawing No.





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GEO/RESOURCE CONSULTANTS, INC. Geologiets/Geophysicists/Geotechnical Engineers

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# 10 MED TILLING	THIS SUMMARY APPLIES O SUBSURFACE CONDITIONS I LOGATION WITH THE PASS OF ACTUAL CONDITIONS E	MLY AT THE LOCATION OF THE MAY DEFER AT OTHER LOCATI AGE OF TIME, THE DATA PRES MCOUNTERED.	IONE AND MAY CHANGE AT IENTED ARE À BIMPLIFICATIO	THIS PRETONELLER	16 N 18 18	THE REPORT
SPT 12	ALLUVIUM SILT (LOOSE)	GRAY-BROWN; 1 THINLY LAMINA LAMINATIONS O SAND; (ML).	TED. OCCASIONA	ND;	1 2 3	
-65 SPT	ESTUARINE DEPOSITS SAND (VERY DENSE)	GRAY-GREEN; I SLT; SCATTERE NO BEDDING EV	D SHELL FRAGA	AENTS: 国	23 35 38	
	; ·				48.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00 (19.00	
-70 ∎SPT -					50 4"	
					eastantswarth	
-75 SPT		FINE TO COARSE COARSE GRAVEL	. ROUNDED.		34 50 3"	
	Same -	TOTAL DEPTH, 7	5.8 FEET.			
	i Tarak		AMETER PVC. H: 25 TO 45 F 3 TO 8 FEET.	EET.		
	Section 1		A Reserve to the second			
SAMPLE TYPES	e i i i i ja ja ja ja ja ja ja ja ja ja ja ja ja		LABORATORY TEST	<u>s</u>	PIEZOME	TER DETAIL
M BAMER SAMPLE - MI C GUTTING SAMPLE - MI RO 8"0.0. SPLIT BANGEL BPT 2"0.0. SPLIT BANGEL BPT, EXCEPT ORIVER P PITCHER SAMPLER - ROTATING CUTTING I	NO COLLECTED FROM AUGER OR SIT NAME AND HAMP COLLECTED OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PURPLE OF TH	OWN HOLE SLIP-JAR HAMMER HAMMER WITH 14" DROP HAMMER WITH 14" DROP		RTS R IO-UNDRAMED TRIAXIAL -UNDRAMED TRIAXIAL IOMETER	SAMPLE	— seal friter pack screin seal Detail

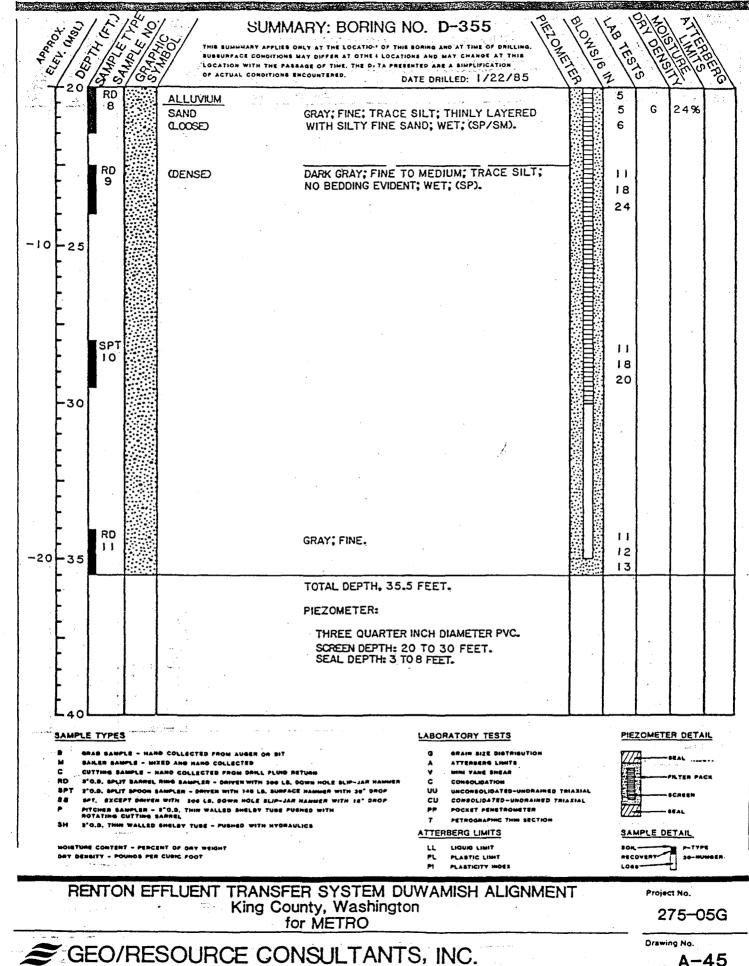
Project No.

275-05G

Drawing No. ---

A-43 --

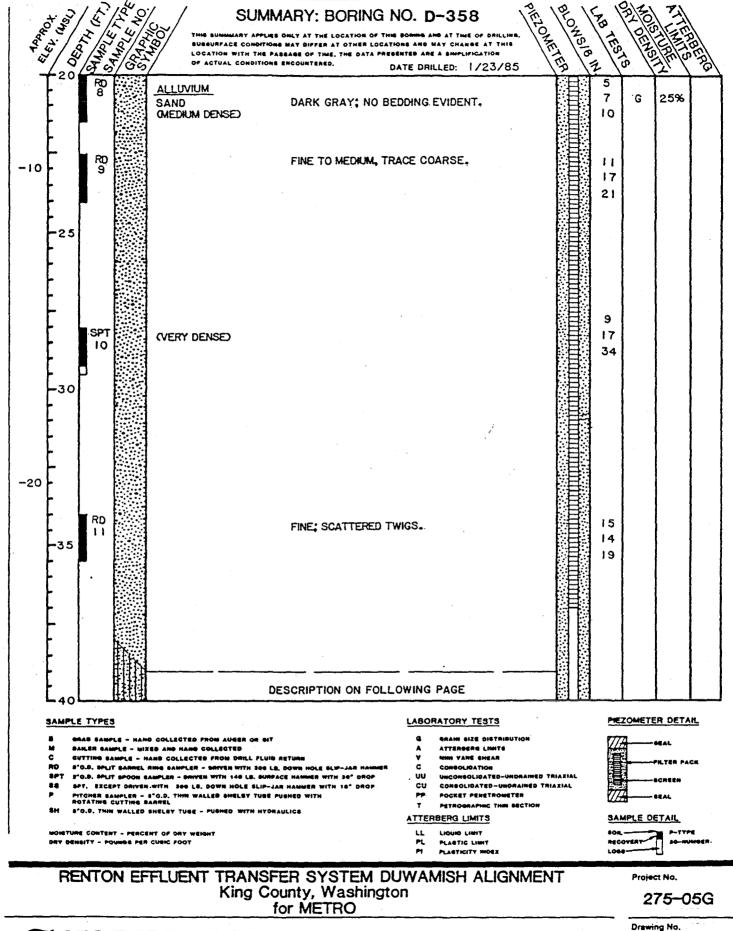




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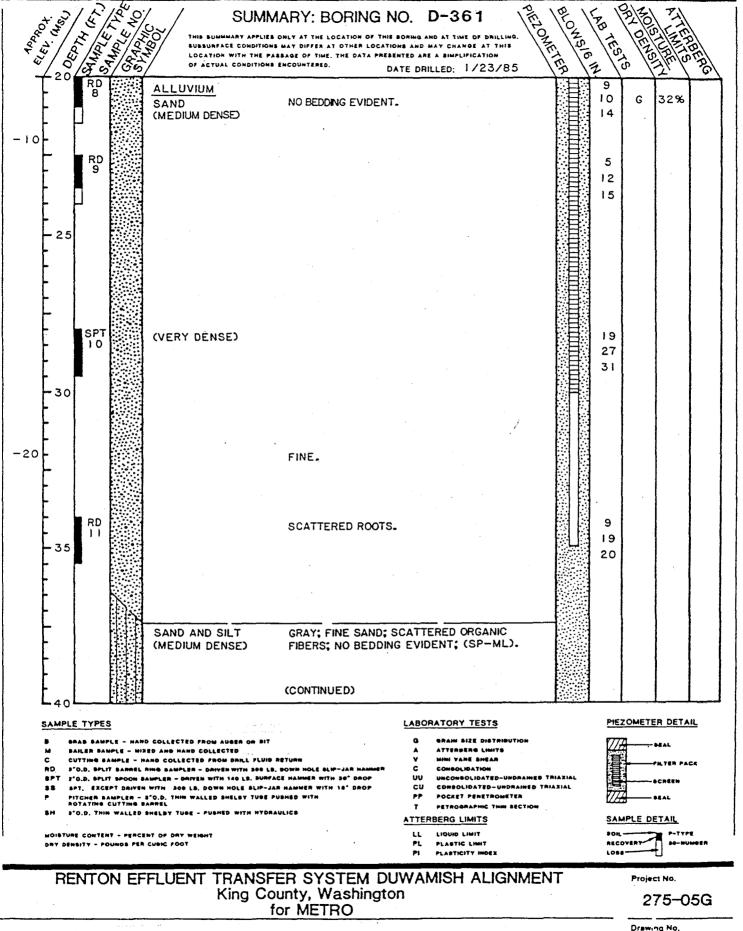
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SUMMARY: BORING NO. D-361 7/05/05 SAND ON S SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME, THE DATA PRESENTED ARE A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED. DATE DRILLED: 1/23/85 RD ALLUVIUM 11 12 SAND AND SILT 10 19 (MEDIUM DENSE) TOTAL DEPTH, 41.5 FEET. -30 PIEZOMETER: THREE INCH DIAMETER PVC. SCREEN DEPTH: 20 TO 30 FEET. SEAL DEPTH: 13 TO 18 FEET. SAMPLE TYPES LABORATORY TESTS PIEZOMETER DETAIL

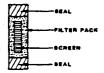
- GRAS SAMPLE HAND COLLECTED FROM AUGER OR BIT
- BAHLER SAMPLE MIXED AND HAND COLLECTED
- CUTTING SAMPLE HAND COLLECTED FROM DRILL FLUID RETURN
  9°O.D. SPLIT BARREL RING BAMPLER DRIVEN WITH 300 LB, DOWN HOLE BLIP-JAR HAMM
  2°O.D. SPLIT SPOOM SAMPLER DRIVEN WITH 140 LB. SURFACE HAMMER WITH 30° DROP
- SPT, EXCEPT DRIVEN WITH 300 LB, DOWN HOLE SLIP-JAR HAMMER WITH 18" DROP
- PITCHER SAMPLER S'O.D. THIM WALLED SHELDY TUSE PUSHED WITH ROTATING CUTTING BARREL
- S'O.D. THIN WALLED SHELBY TUBE PUSHED WITH HYDRAULICS

MOISTURE CONTENT - PERCENT OF DAY WEIGHT DRY DENSITY - POUNDS PER CUBIC FOOT

- ATTERBERG LIMITS
- ---
- υU UNCOMBOLIDATED-UNDRAIMED TRIAXIAL
- CONSOLIDATED-UNDRAINED TRIAXIAL
- POCKET PENETROMETER
- PETROGRAPHIC THIN BECTION

#### ATTERBERG LIMITS

- PLASTIC LIMIT



#### SAMPLE DETAIL



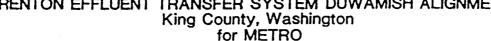
RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington

Project No.

275-05G

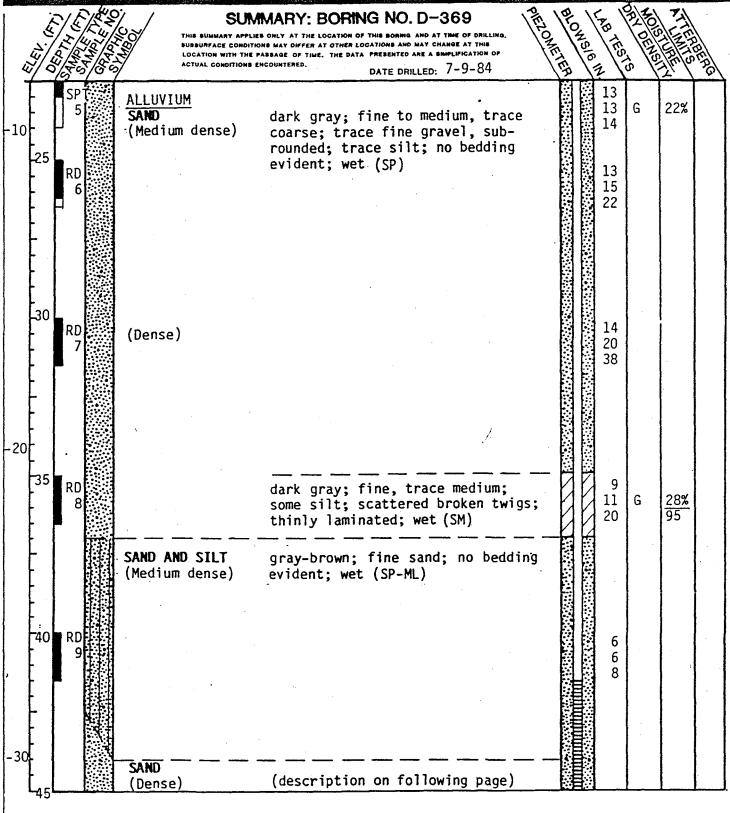


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continued

RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for METRO

Project No.

84-5164

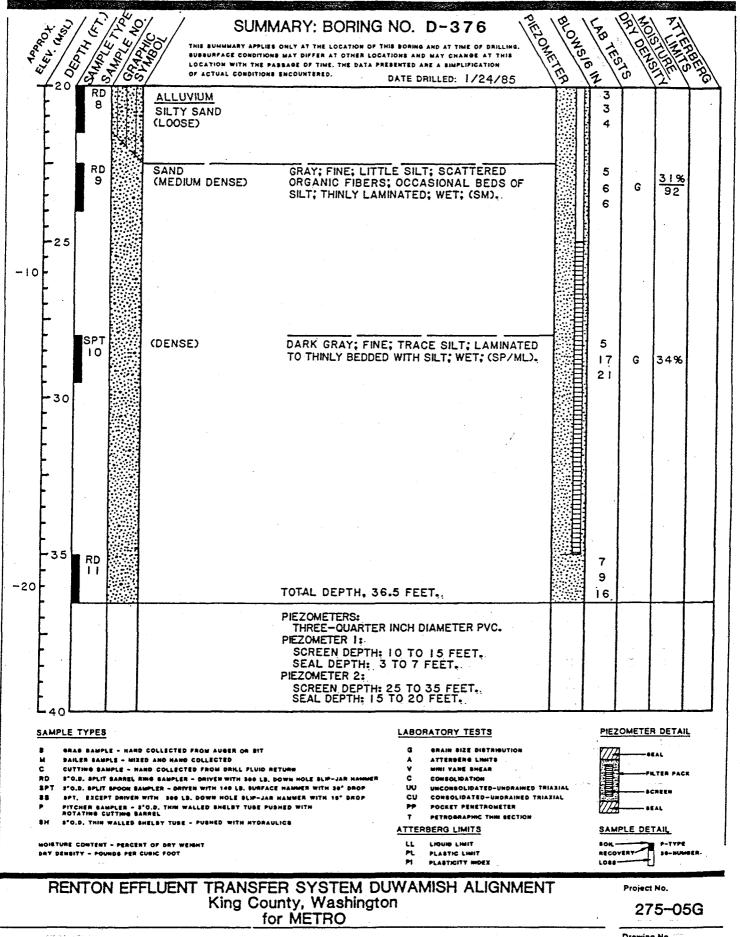


Converse Consultants

Geotechnical Engineering and Applied Sciences

Drawing No.

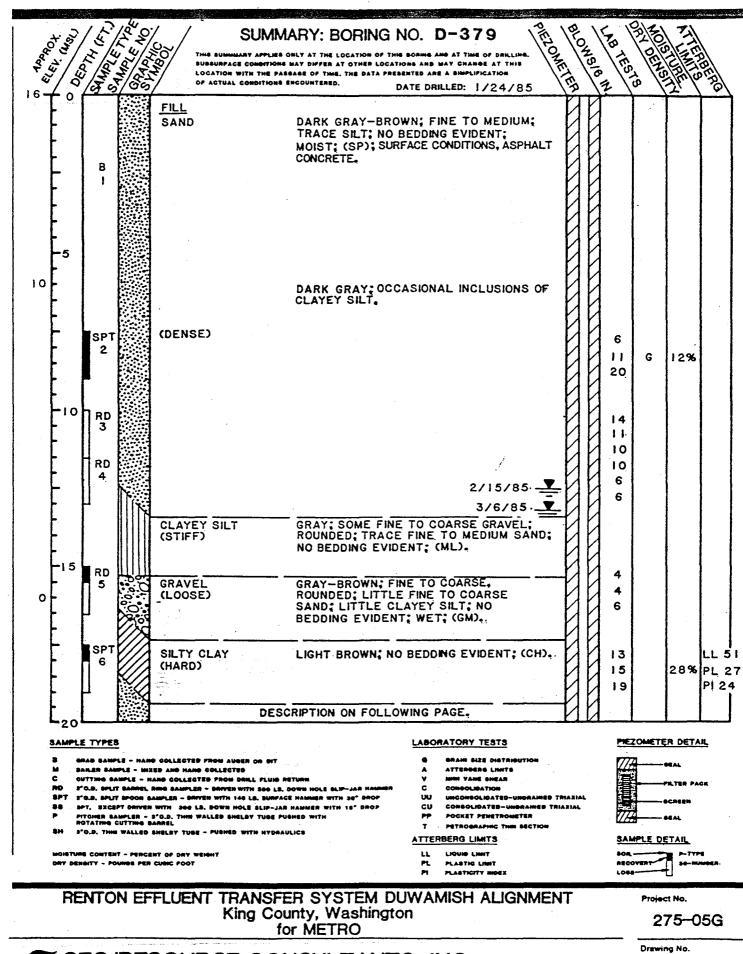
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Drawing No.

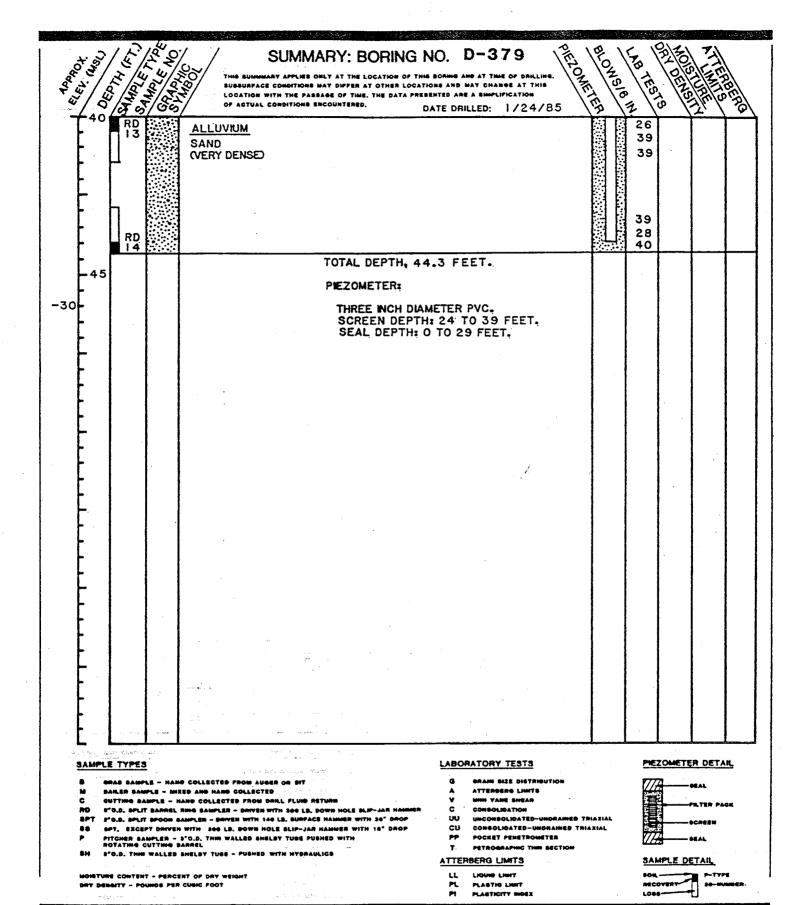
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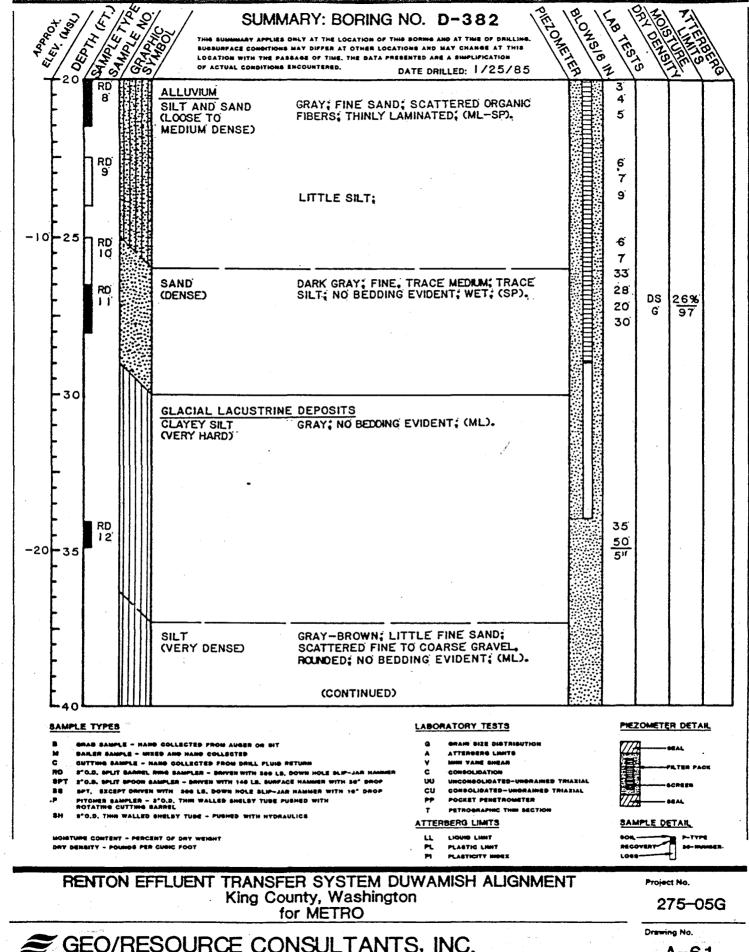


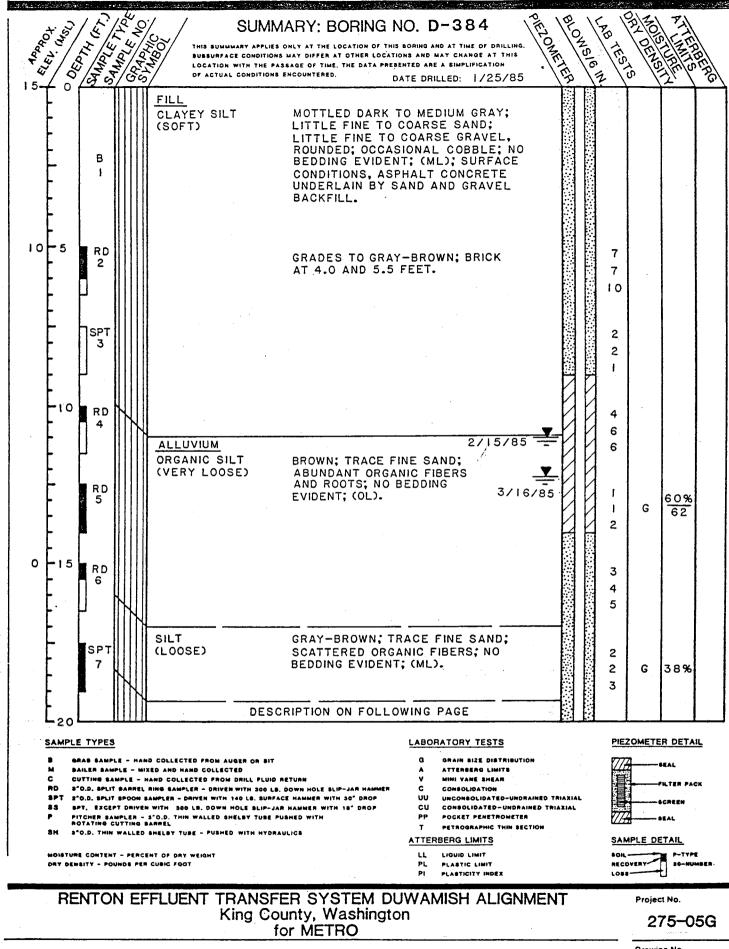
Project No.

275-05G



Drawing No.







GEO/RESOURCE CONSULTANTS, INC. Geologia s/Geophysicists/Geotechnical Engineers

10 10 10 10 10 10 10 10 10 10 10 10 10 1	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 BIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.  DATE DRILLED: 1/25/85	BLOWS	LAB TES	AV DENSIT	TIERRE
40 RD 80	SAND AND GRAVEL		<u>60</u> 2"		
<b> </b>	TOTAL DEPTH, 40.2 FEET.	1			
	PIEZOMETER:				
-	THREE INCH DIAMETER PVC. SCREEN DEPTH: 20 TO 30 FEET. SEAL DEPTH: 9 TO 14 FEET.				
45					
-					
				ŕ	
SAMPLE TYPES	LABORATORY TESTS  HAND COLLECTED FROM AUGER OR SIT  G GRAIN SIZE DISTRIBUTION	<b>.</b>		ZOMETER D	ETAIL

- BAILER SAMPLE MIXED AND HAND COLLECTED
- 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 2°O.D. SPLIT SPOON SAMPLER - DRIVEN WITH 140 LE, SURFACE HAMMER WITH 30° DROP
- BPT, EXCEPT DRIVEN WITH 300 LB. DOWN HOLE BLIP-JAR HAMMER WITH 18" DROP
- PITCHER SAMPLER 3"C.D. THIN WALLED SHELBY TUBE PUSHED WITH ROTATING CUTTING SARREL
- 3"O.D. THIN WALLED SHELBY TUSE PUSHED WITH HYDRAULICS

MOMTURE CONTENT - PERCENT OF DRY WEIGHT DRY DENSITY - POUNDS PER CUBIC FOOT

- ATTERBERG LIMITS
- MINI YANE SHEAR
- CONSOLIDATION
- IJÜ UNCONSOLIDATED-UNDRAINED TRIAXIAL
- CONSOLIDATED-UNDRAINED TRIAXIAL
- POCKET PENETROMETER
- PETROGRAPHIC THM BECTION

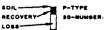
#### ATTERBERG LIMITS

- LIQUID LIMIT

PLASTIC LIMIT PLASTICITY INDEX



#### SAMPLE DETAIL



RENTON EFFLUENT TRANSFER SYSTEM DUWAMISH ALIGNMENT King County, Washington for NIETRO .

Project No.

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Drawing No.

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