# SCS ENGINEERS



# Construction Quality Assurance Report

# Olympic View Sanitary Landfill Port Orchard, Washington

Presented to:



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#### Waste Management Inc.

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## EXECUTIVE SUMMARY

This report presents information describing the quality of construction for the replacement of gas extraction wells and subsequent cover penetration repairs at the Olympic View Sanitary Landfill (OVSL). Details contained herein describe general project background information, general quality assurance activities, component specific construction monitoring, and supporting documentation. The chapters describing component specific construction methods, and construction quality assurance (CQA) for their respective work element (construction component). Supporting documentation provides detailed results of all activities including: general inspection activities, meetings, review of data, visual observations, measurements, and field testing.

# 1.0 INTRODUCTION

The purpose of this report is to provide documentation that the 2008 gas extraction well installation and cover penetration repairs at OVSL have been conducted in a manner that meets the general intent of design in accordance with Waste Management, Inc. (WM) requirements.

#### 1.1 SITE LOCATION AND DESCRIPTION

The closed OVSL facility is located on approximately 400 acres in Sections 3 and 10, Township 23N, Range 1W of the Willamette Meridian, Kitsap County, Washington. The facility is situated on an upland area approximately 10 miles southwest of the city of Bremerton. The facility address is 10015 SW Barney White Road, Port Orchard, Washington. The closed refuse fill area covers approximately 65 acres of the site. A site vicinity map is shown on Figure 1, and a site plan is presented on Figure 2.

The OVSL facility accepted municipal solid waste between 1967 and 2003. Landfill closure was completed in 2004, in accordance with Washington Administrative Code (WAC) 173-351. Landfill closure included construction of a landfill gas monitoring system, an active landfill gas collection and treatment system, a leachate collection and treatment system, a storm water drainage control system, and a final cover. The final cover consists of:

- 6-inch thick, low permeability soil
- 60-mil geomembrane
- Geonet composite
- 12-inch drainage layer
- Geotextile fabric
- 12-inches of vegetative topsoil and cover soil

The active landfill gas collection system consists of a total of 89 well heads (70 vertical wells, 7 horizontal wells, and gas extraction from 12 leachate collection riser connections) connected to a flare station.

#### 1.2 BACKGROUND

SCS conducted a landfill gas control system evaluation in the winter and spring of 2006. In the evaluation, SCS noted design, construction, and operations and maintenance issues which prevented optimal extraction of LFG at the site.

Inspection of the well heads in January 2006 found that the majority (if not all) of the well head control assemblies needed to be repaired or replaced to allow for accurate flow measurements. Additionally, based on observed vacuum measurements and noticeable

surging, there were several locations along the conveyance pipe suspected of either being partially or fully obstructed or separated. Based on the observed gas composition, vacuum, and flow measurements, there were also many gas extraction wells suspected of either being partially or fully obstructed by water and/or collapsed well pipe (casing).

In the fall of 2006, SCS conducted additional investigations, repairs, and modifications to the gas system. Work included replacing well head control assemblies and associated flex hose, replacing PVC couplings with HDPE couplings on well heads, investigation/inspection and testing of the conveyance pipe, minor repairs, investigation/inspection of isolation valves, installation of sampling ports along the conveyance pipe, video inspection of a portion of the gas wells, and video inspection of a portion of the conveyance pipe.

During the first half of 2007, SCS performed several investigational and repair activities on the gas system and landfill. This work included well field balancing, video inspection of all wells not previously inspected including associated riser and lateral piping, investigation/inspection of isolation valves not previously inspected, surface emissions monitoring (SEM), perimeter probe monitoring, and installation of piping and well head control assembly at the LCO-4 location.

During the second half of 2007, SCS completed further investigations, repairs, and modifications to the landfill and gas system. Work performed during this time included well field balancing, installing and modifying well head control assemblies, repairing the lateral and header junction piping, replacing existing PVC Tees with HDPE Tees, investigating and repairing cover penetration seals, installing flow monitoring ports, investigating cover geomembrane locations, and retaining wall installation.

In early 2008, SCS completed the replacement of condensate trap No. 1. This report summarizes the installation of new gas collection wells and abandonment of deficient wells.

#### 1.3 GENERAL DESCRIPTION OF WORK PERFORMED

- Installation of new gas extraction wells and cover penetration seals
- Abandonment of inoperable gas extraction wells
- Replacement of cover penetration seals for abandoned gas collection wells

#### 1.4 PROJECT PARTIES AND RESPONSIBILITIES

Organizations and primary personnel participating in this construction project include:

• Owner

Waste Management, Inc. John Schrott SCS Engineers Ted Massart

CQA Consultant

- Surveyor
- Drilling & Well Installation Contractor
- Geosynthetics Contractor

Parametrix, Inc. Clark Rowland Terra Engineering & Construction Corporation Bob Acker Northwest Linings & Geotextile Products, Inc. Allen Whipple

### 1.5 DEFINITIONS

#### **Quality Control (QC)**

A planned system of inspections used to directly monitor and control the quality of a construction project (EPA, 1986). Construction quality control is normally performed by the contractor, and is necessary to achieve quality in the constructed or installed system. Construction quality control (CQC) refers to measures taken by the contractor to determine compliance with the requirements for materials and workmanship as stated in the plans and specifications for the project.

#### **Quality Assurance (QA)**

A planned system of activities that provides the owner and/or permitting agency assurance that the facility was constructed as specified in the design (EPA, 1986). Construction quality assurance includes inspections, verifications, audits, and evaluations of materials and workmanship necessary to determine and document the quality of the constructed facility. Construction quality assurance (CQA) refers to measures taken by the QA organization to assess if the contractor is in compliance with the plans and specifications for the project.

#### 1.6 RELATED DOCUMENTS

The following documents define the scope of work and services for the implementation of construction of the gas extraction wells and cover system penetration seals.

• Summary of Completed Work 2007, Landfill Gas System Repairs, Modifications & Investigation, Olympic View Sanitary Landfill, March 2008 (SCS Engineers)

# 2.0 GAS EXTRACTION WELL CONSTRUCTION

This section discusses the work associated with the construction of the landfill gas extraction wells.

#### 2.1 REFERENCE DRAWINGS

The following drawing is relevant to the gas extraction well construction:

• Figure 3, provided by Waste Management (WM)

#### 2.2 DESIGN CLARIFICATIONS, MODIFICATIONS, ADDITIONS AND DELETIONS

The following clarifications, modifications, additions, and deletions are relevant to the gas collection system:

- Modification of gravel pack to extend 2-feet above slotted pipe
- Modification of upper bentonite seal to terminate at 6-inches below existing HDPE geomembrane cover and fill to cover depth with clean soil

#### 2.3 CONSTRUCTION SEQUENCE AND SCHEDULE

Well construction and installation activities occurred from February 25, through March 8, 2008. The gas collection pipe construction and installation was conducted after the well installation and was completed in mid-March.

#### 2.4 CONSTRUCTION METHODS

Construction of the landfill gas extraction wells consisted of drilling a 36-inch diameter boring to a specified depth using an IMT AF-130 drill rig with a barrel auger. Once the final depth of the boring was reached, approximately 2 feet of gravel was placed on the bottom. The extraction wells were constructed in 40-foot segments and placed into the boring. The slotted portion of the gas extraction well was factory fabricated using 6-inch diameter, slotted, Schedule 80 PVC. The slotting of pipe was done in accordance with the drawings provided. Each 40-foot section was lowered into the boring and secured while the next section was connected with Schedule 80 PVC couplings that were glued to each section and secured with four stainless steel screws inserted into each end of the coupling at approximately 90 degrees from each other. The final section of pipe was solid 6-inch diameter Schedule 80 PVC pipe set to protrude approximately 2 feet above the existing ground surface. Once the well was in place, the annulus between the well piping and boring was backfilled with gravel around the slotted portion of the well. The gravel was placed to approximately two feet above the top of the slotted piping. The gravel consisted of round to sub-round 1 to 1.5-inch diameter rock. A 2-foot thick lower bentonite layer was placed above the gravel to inhibit air and water intrusion into the well. Clean soil was used to backfill above the lower bentonite layer to approximately 4-feet below ground surface. A second bentonite layer, approximately 1 foot thick, was placed above the soil layer to approximately 6-inches below the existing geomembrane cover. The lower and upper bentonite seals were hydrated with approximately 50 and 15-gallons of water, respectively. The final 6-inches below the geomembrane cover were backfilled with clean soil to create a working surface during geomembrane repairs.

The original extraction wells were abandoned by cutting, filling with bentonite, and capping below the ground surface. The new extraction wells were connected to the original lateral piping by welding a 90-degree elbow to the existing piping and extending the lateral to the new riser location for each well.

### 2.5 CQA ACTIVITIES

The CQA personnel were on site daily to verify that the landfill gas collection system was installed according to the drawings and specifications. Verification included visual observations and boring/completion log documentation. Documentation for this verification process is found in Appendix A. Verification included:

- Visual examination of boring cuttings
- Temperature measurements of the refuse at approximately 20-foot intervals
- Verification that backfill materials met the requirements of the drawings and specifications
- Verification that pipe materials met the requirements of the drawings and specifications
- Verification that extraction wells were installed according to drawings and specifications
- Documenting observations and measurements

Based on visual observation, the new gas extraction wells were installed in general accordance with the drawings as documented in Appendix A.

### 3.0 COVER GEOMEMBRANE REPAIRS

This section discusses the work associated with the repair of the geomembrane component of the cover system and cover penetration seals associated with the gas extraction wells.

#### 3.1 REFERENCE DRAWINGS AND SPECIFICATIONS

WM personnel provided verbal direction on design and construction of the cover penetration seal. Figure 4 presents the detail of how the cover penetration seals were constructed. SCS relied on industry standards and internal specifications for verifying the quality of construction.

#### 3.2 CONSTRUCTION SEQUENCE AND SCHEDULE

The majority of the cover geomembrane repair activities took place from March 14 through 17, 2008 with final completion of the repairs occurring on April 25, 2008. Inclement weather created delays during the geomembrane repair activities.

Cover repair activities consisted of installing geomembrane patches around the top tier extraction wells followed by the lower tier wells. Quality control testing and repairs, if needed, followed after initial replacement patch installation.

#### 3.3 CONSTRUCTION METHODS

Installation of the cover patches consisted of deploying circular geomembrane patches and welding the patch to the existing cover geomembrane using extrusion welding techniques. Quality control measures included checking welding machines for proper welding parameters, trial welds, and testing seams for leaks. The following provides a brief general description of installation, testing methods, and sequence for a typical day's installation.

Prior to welding, each extrusion welding machine is checked for proper operating temperature, extrusion speed, and operator speed. This is done by conducting trial welds on small strips of geomembrane material. Trial welds are tested in the field using a field tensiometer to verify the welds meet strength requirements. If a test fails, the machine is adjusted and the process is repeated until the trial weld seam strength test passes. This ensures that welding machines are operating correctly before field welding commences.

The cover repair patches were trimmed to overlap the existing geomembrane cover by 4- to 6inches. After the patches were trimmed they were heat tacked to the existing cover geomembrane with a hot air leister. During the heat tacking, some patches required cuts within the cover patch to allow the geomembrane material to lie flat without wrinkles or folds. All overlapping geomembrane seams were heat tacked prior to grinding. Grinding of the seam areas was performed with a circular hand-held electric grinder. Once the seam areas were prepped and cleared of moisture and soil, welding of all seams was conducted using an extrusion machine.

The majority of the seams were tested using a vacuum box and soap solution. Seams were required to hold a vacuum of at least 5 pounds per square inch (psi) for 15 seconds or more without leaks to pass testing. Some of the seams were on severely sloping or undulating terrain. In these locations, a seal was unable to be achieved between the vacuum box and the geomembrane.

Any locations that failed vacuum box testing were documented on the appropriate CQA form. Failed locations were subsequently ground with the hand-held grinder and welded over with the extrusion machine. All failed tests were retested with the vacuum box after repairs were made.

Vertical seams along the well sleeve and circular seams at the sleeve-cover patch intersection were not vacuum tested because a seal between the vacuum box and the geomembrane material could not be attained. General procedure for testing these types of seams incorporates the use of a metal wire and subsequent spark testing to ensure no leaks. However, no spark testing was conducted during CQA testing activities.

A single stainless steel hose clamp with a worm gear fastener was affixed around a neoprene collar placed over the geomembrane near the top of the geomembrane sleeve. Butyl caulking was used to seal the top of the neoprene collar with the extraction well piping.

#### 3.4 CQA ACTIVITIES

The SCS CQA Monitors verified the geomembrane was installed according to industry standards. Documentation for this verification process is found in Appendix B. Inspection for installation conformance included:

- Verifying installation procedures were met
- Verifying correct welding parameters were used
- Verifying seam integrity (leak testing)
- Verifying defects were repaired and tested

During installation of the cover patches, quality assurance monitoring was conducted by daily inspection of placement, trial welding, and testing of geomembrane material. Visual observation was made of seams for leaks.

As part of the geomembrane installer's quality control, information was recorded by the geomembrane installer to document that the geomembrane had been installed as specified. This documentation, the installer's Trial Weld Form, is provided in Appendix B.

Verification that installation procedures were being met was accomplished by:

- Observing storage, handling, and installation of repair materials
- Observing correct overlap of geomembrane patch materials
- Observing cleaning of welding surfaces and welding of seams
- Visually inspecting all seams for defects after welding was completed
- Documenting welding information on geomembrane panel
- Collecting documentation from the Geosynthetic Contractor

Verification of correct welding parameters was met by:

- Observing trial welds on the same surface that welding was to be conducted
- Observing the Contractor's seam peel and shear testing of trial welds
- Reviewing test results of trial weld peel and shear tests
- Collecting documentation from the Contractor

Verification that seams were leak-free was met by:

- Observation of all vacuum testing of seams
- Verifying results of all vacuum testing of seams
- Documenting test results on geomembrane patch forms

Seam leak testing was conducted for all seams and repairs for the entire length of welds except the geomembrane sleeves and other locations as previously mentioned. Where possible, seam leak testing was conducted by vacuum box testing. Where seam leak testing did not pass, the leak was located, repaired, and retested. All vacuum box testing of seams was observed by the CQA Monitor.

Verification of locating, repairing and testing of defects and damage was met by:

- Visually inspecting all patches for defects and damage
- Visually observing repairs and leak testing
- Documenting repairs, welding information, location and test results on geomembrane patch forms

Based on a review of trial weld testing, seam leak testing, and visual observations, the cover patches of the landfill cover system were installed in general accordance with industry standards as documented in Appendix B. However, the Geosynthetic Contractor performed geomembrane patching and testing at location No. 83XX (upslope from GW-28) without a CQA Monitor present.

# 4.0 PROTECTIVE SOIL COVER AND VEGETATION

This section discusses the work associated with the replacement of protective soil cover and vegetation layers disturbed during gas extraction well installation.

#### 4.1 REFERENCE DRAWINGS AND SPECIFICATIONS

The soil was replaced to match the surrounding soil cover, graded, reseeded, and covered with straw. No drawings or specifications were provided regarding the protective cover soil and vegetation layers. In lieu of a specification for the protective soil cover and vegetation layers, they were placed to match the surrounding ground surface.

#### 4.2 CONSTRUCTION SEQUENCE AND SCHEDULE

The soil cover and vegetation replacement activities occurred from March 15 through 17 and April 20 through May 3, 2008. Weather delays associated with the geomembrane repair activities lengthened the soil and vegetation replacement schedule. In general, placement of the protective soil cover material was performed after the installation of the geomembrane cover repairs. The vegetation restoration was then performed after the protective soil cover replacement.

#### 4.3 CONSTRUCTION METHODS

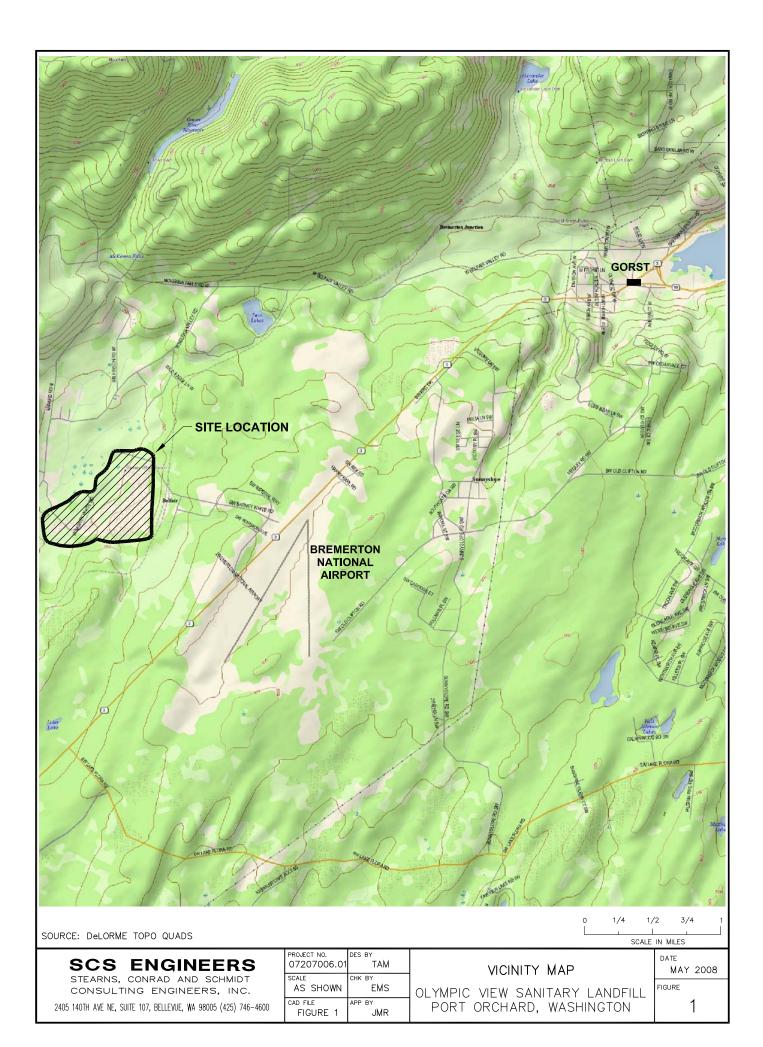
Replacement of the protective soil cover consisted of backfilling disturbed areas where gas extraction wells and connection piping were installed. After final grading, the soil layer was reseeded and covered with straw to prevent erosion of the cover soil material.

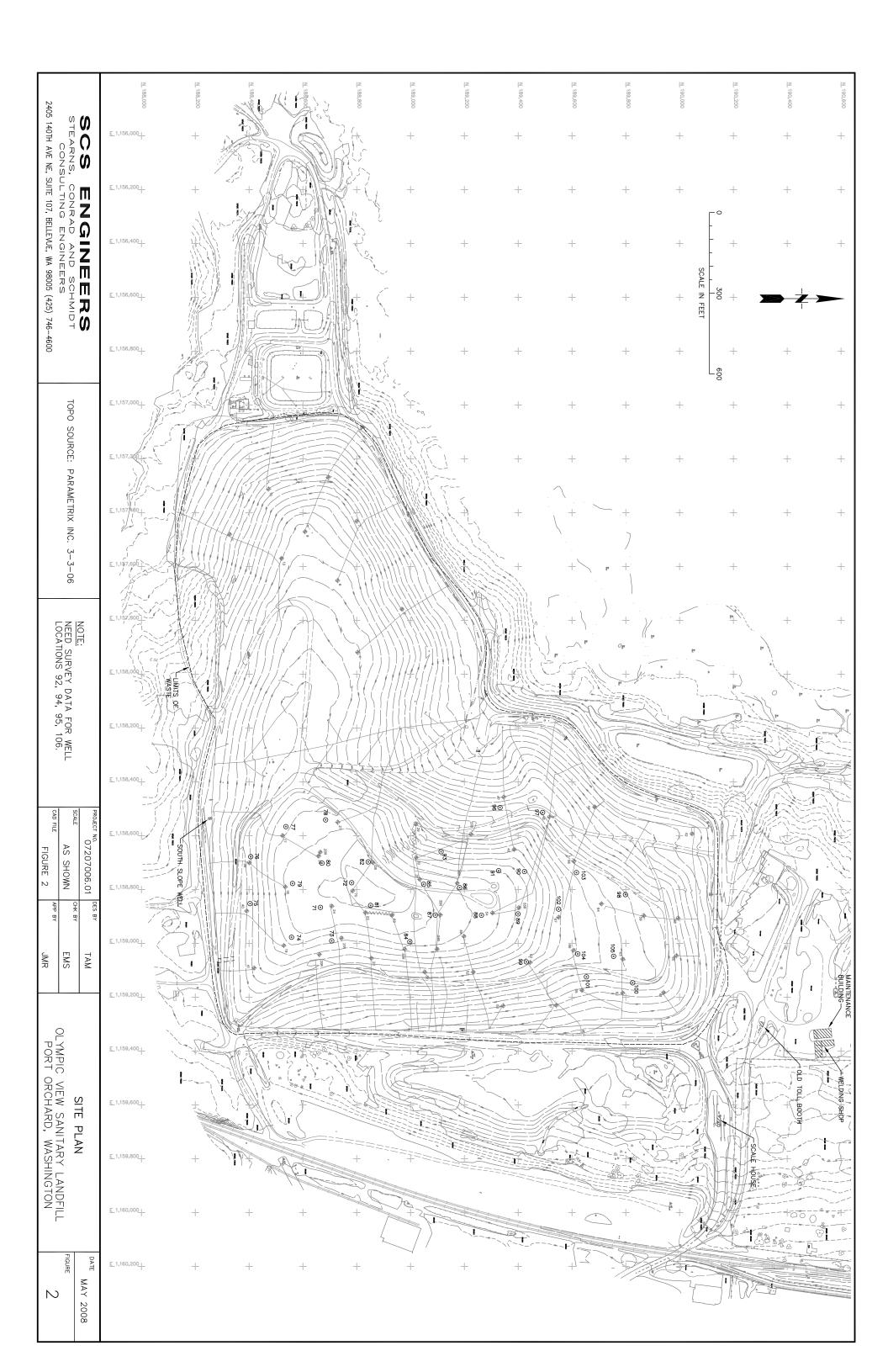
#### 4.4 CQA ACTIVITIES

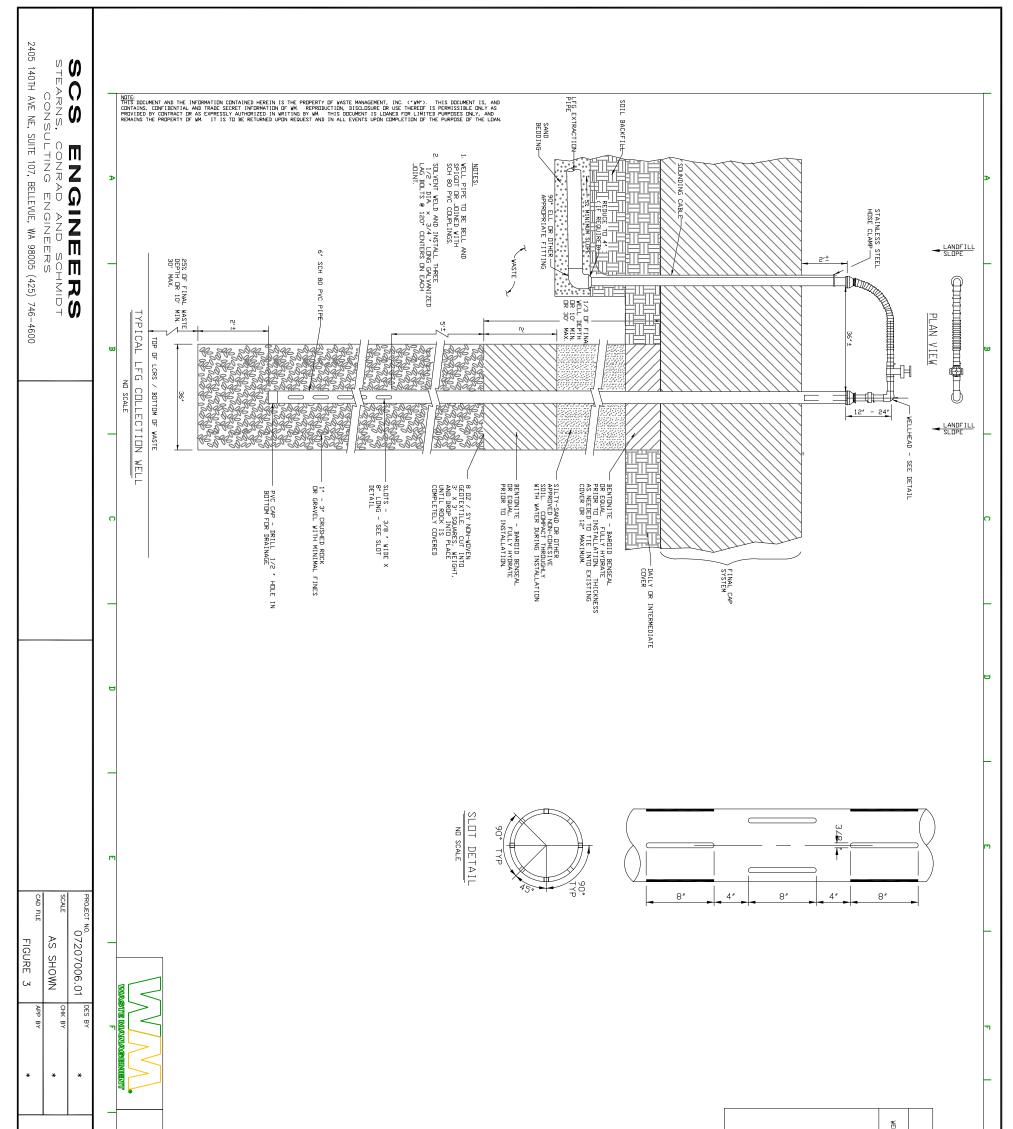
The CQA personnel were on-site to verify that the protective cover soil and vegetation layers were constructed to return the ground surface to its original condition. Verification consisted of visual observations. The CQA Monitor verified the protective cover soil and vegetation layers were constructed according to specifications. Inspections included the following:

- Observing placement of the cover soil
- Observing placement of seeds
- Verifying adequate seed coverage to establish a healthy stand of grass
- Observing placement of straw

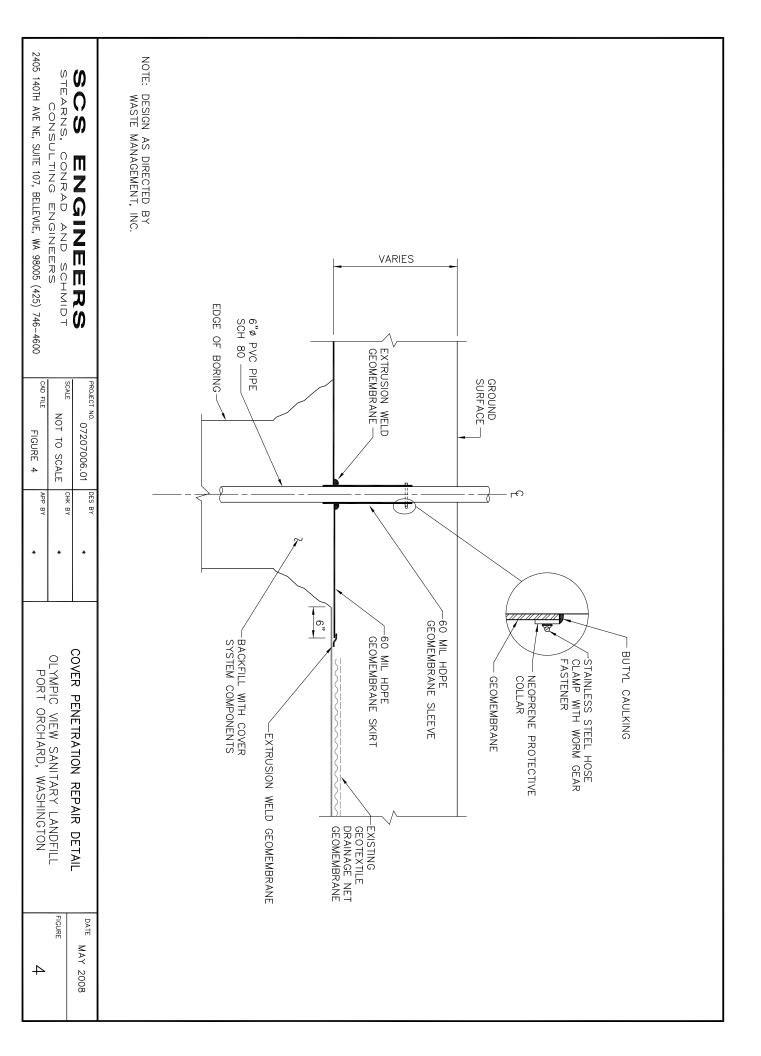
Based on visual observations and field measurements, the protective cover soil and vegetation layers were installed in general accordance with the specifications.







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# EXHIBIT A - PHOTOGRAPHS

















# APPENDIX A

Boring/Well Completion Logs

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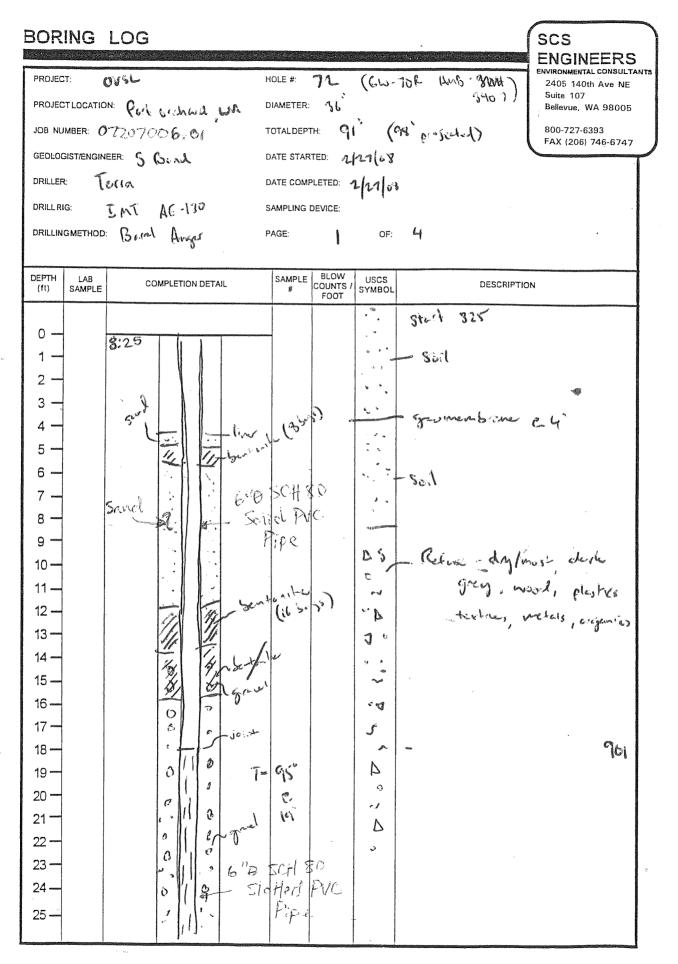
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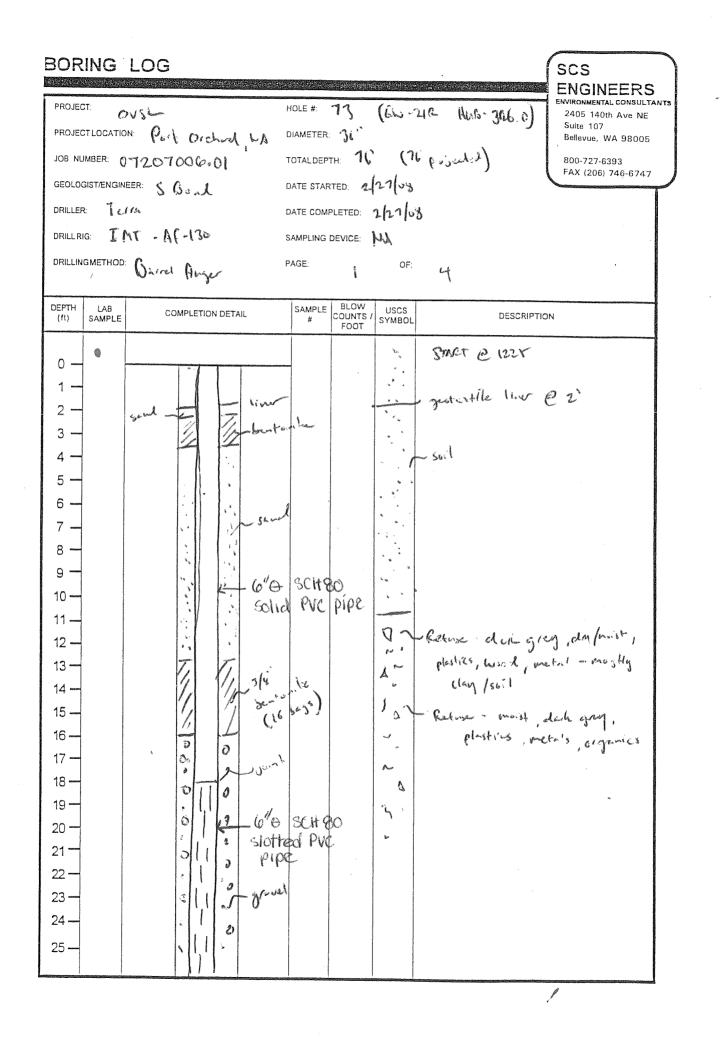
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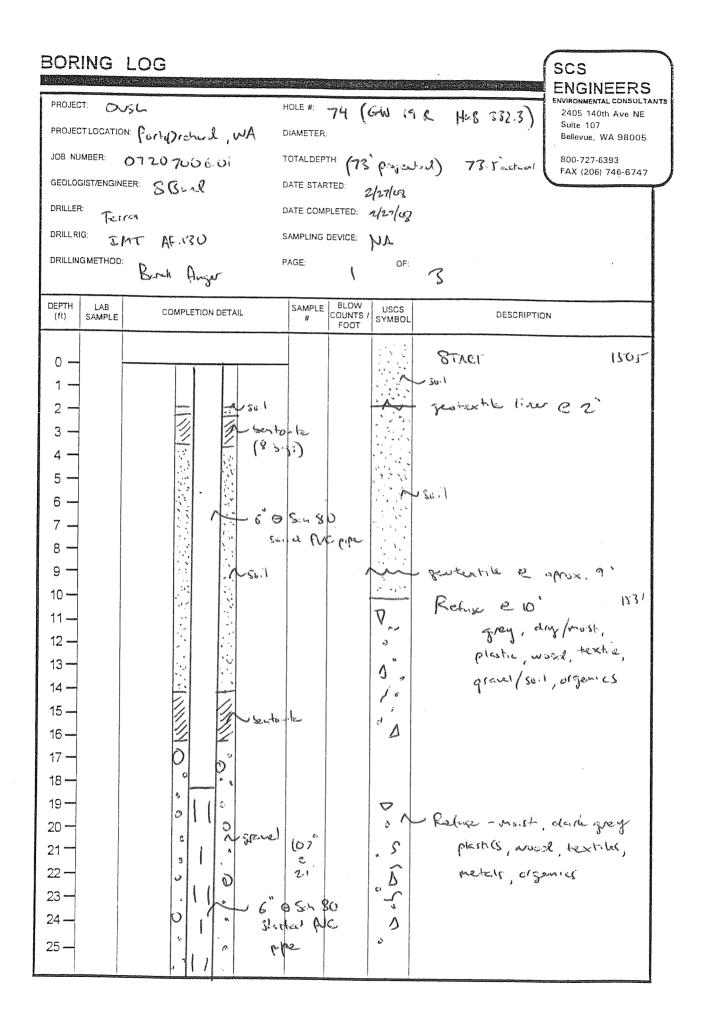
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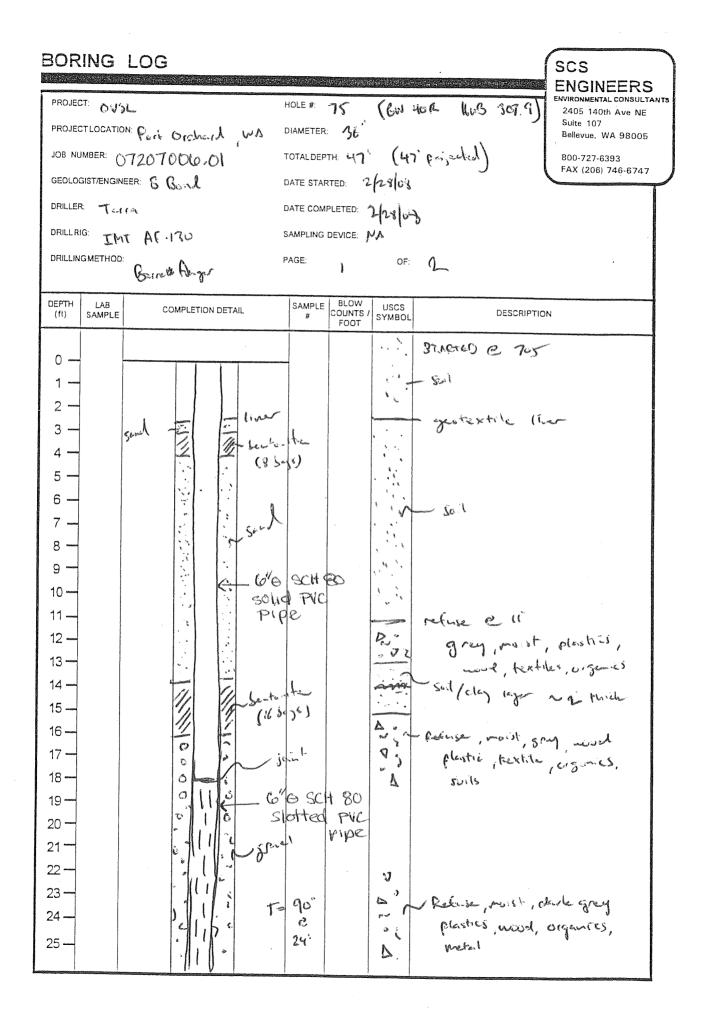
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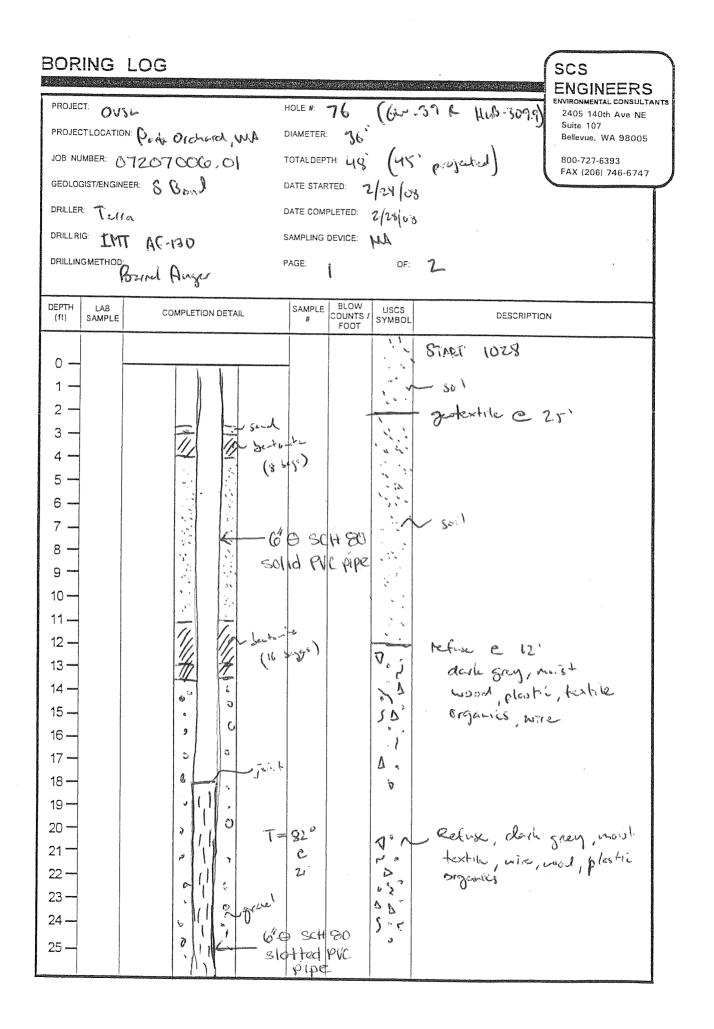
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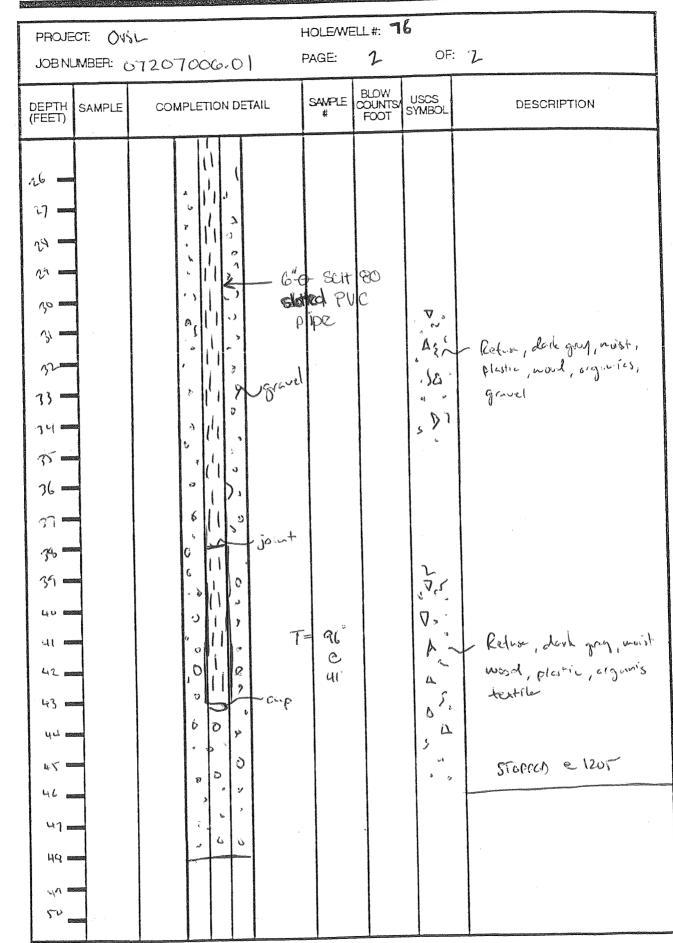
OVSL -74 PROJECT: HOLE/WELL #: 0F: 3 JOB NUMBER: 07207606.01 PAGE: 3 BLOW COUNTS/ FOOT USCS SYMBOL DEPTH (FEET) SAMPLE SAMPLE COMPLETION DETAIL DESCRIPTION # C 5 1063 V5-21 51 C 1000 Refue esz'-suits, 52 = 0  $\bigcirc$ • 5 plastics, evold, organis e 52 13 Sevel wire, tope . 13% C 4 41 .,  $\bigtriangleup$ 55.  $\mathbb{O}$ S فر 5 6. 57. O  $|\rangle$ \$  $\hat{\mathbf{x}}_{\mathbf{y}}$ 18. · juint J 541 0  $\checkmark$  $\mathcal{E}$ Refue 2 60 Ĉ. 127.8 601 15 Souts plastics, wood, Ć 0 Z 61 0 80-80 · A 60 ç organics, wite, Signal AUC Sa Ò ů (2 . 4 Ģ - no.st 00 5 63 \* .) à 0 0 (4. 0 30 65 . 0 ħ 8 66 . Ô č 67 62 3 C 69 C Q 70 1 6 Parise e 72 3  $\sqrt{}$ 71 Plastics, wood, Ĉ ù 117.0 CSP 6 -72 . organics, wire ð D 3 20 73 . - ALST è. 72' 0 Ð 0 74 . 6 STOP @ 73.5 1778 75 63



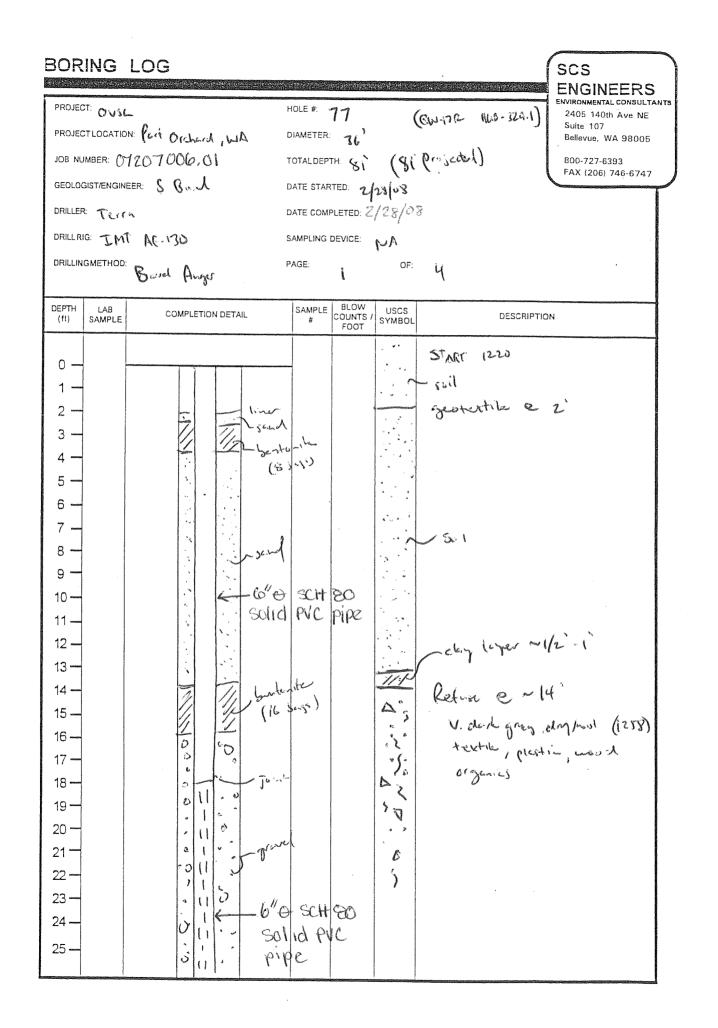
PROJECT: OV JOB NUMBER: (		HOLE/WE PAGE:	ELL#: "	<b>75</b> OF:	2
DEPTH (FEET)	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
26 27 24 26 32 32 31 32 33 34 35 35 36 31 35 36 31 35 36 31 35 36 31 35 36 31 35 36 31 35 36 31 40 41 42 44 45 44 47 44 47 44 47 44 47 44 47 44 47 44 47 44 47 44 47 44 47 44 47 44 47	$ \begin{array}{c} \left(\begin{array}{c} 1\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$		1		Sheet caste urapped around buchet: Retuse, durk grey, ". Aus plastics, nord, techtic 933 Retuse, churk grey, V. Mas plastics, court, techtic, organics

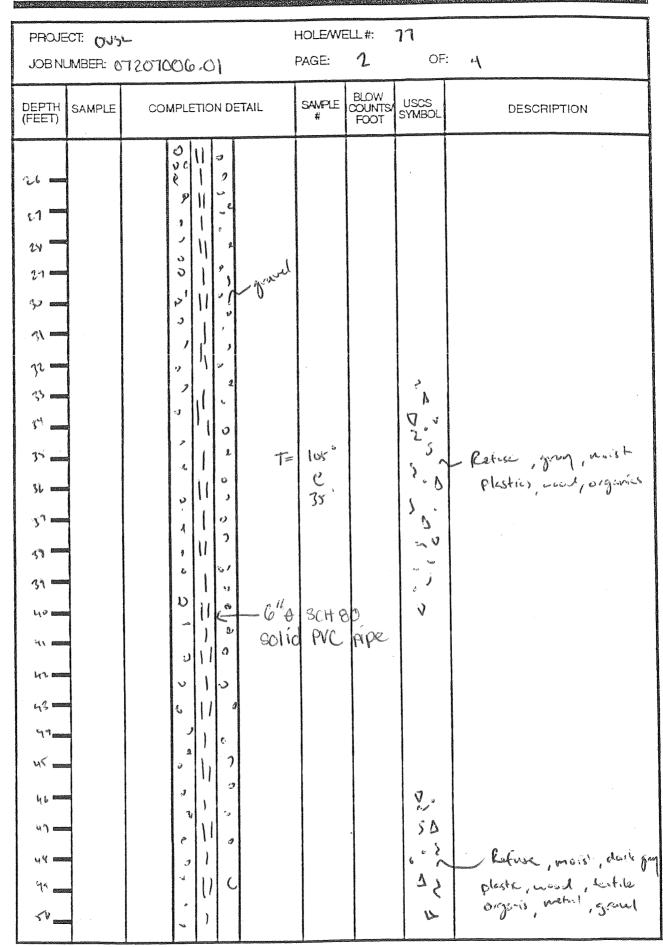
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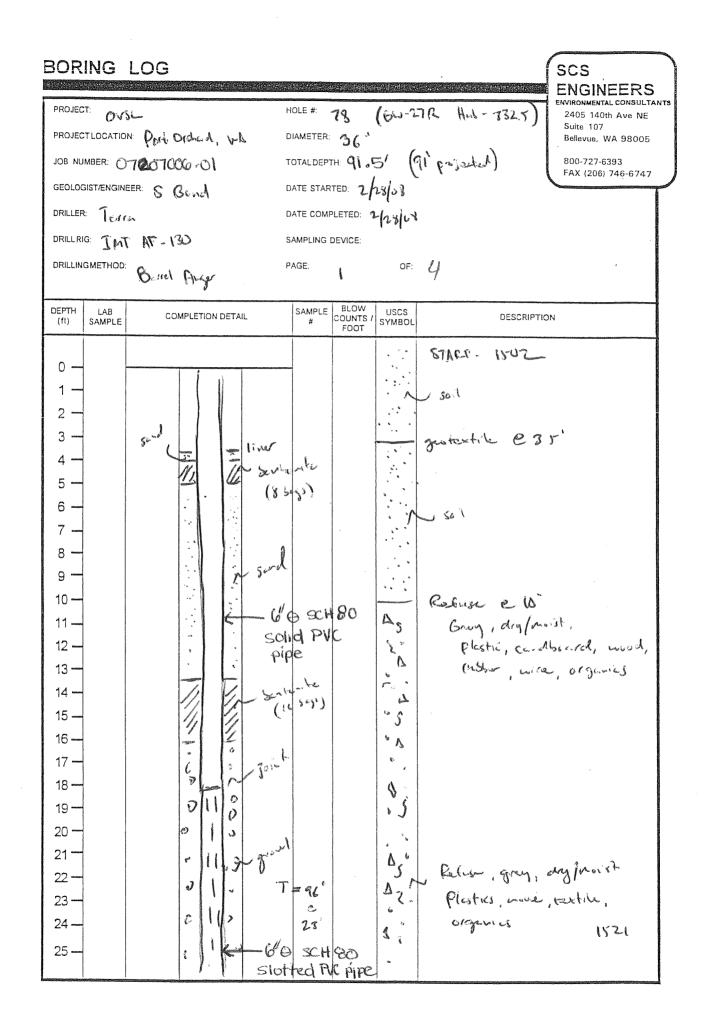
Apprev 23.5' Screen





PROJECT: 01	152	HOLE/WE	ELL#:	17	
JOB NUMBER: (	7207006-01	PAGE:	3	OF:	4
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAWPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
51         52         53         54         55         56         57         58         54         58         54         55         54         55         54         55         54         64         64         64         64         64         64         71         72         71         72         71         72         71         73		- 122° E Sh' Scht			- Refuse, derk grey, must plashe, carbourd, testile, -oug, metals gravel 1355 Refuse, park grey, mus plaste, testile, wood, with, pipe, organics

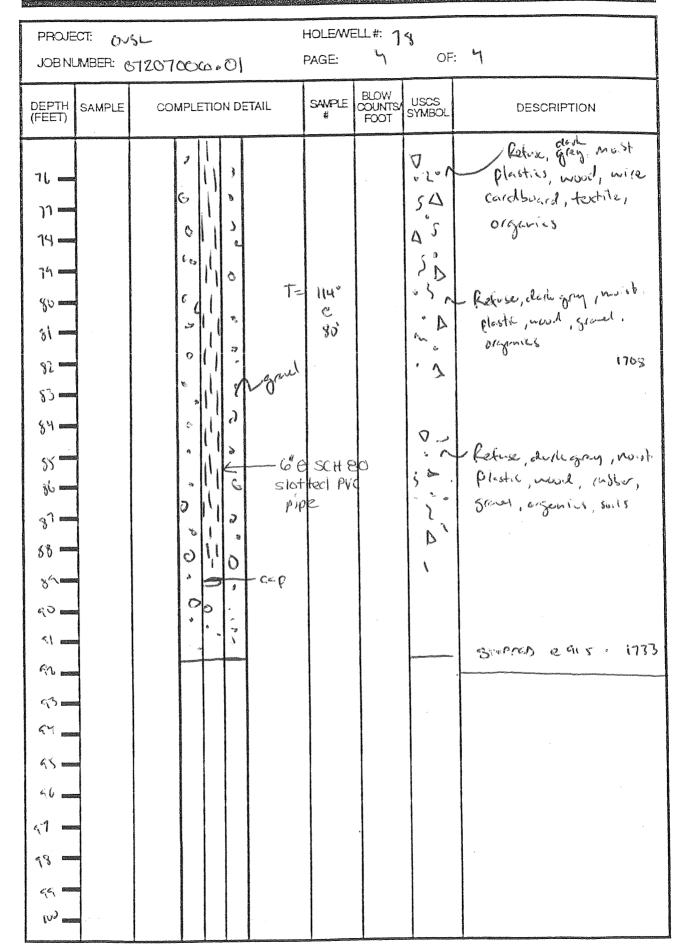
PROJECT: 0VSU JOB NUMBER: 0	, 1207006-01		VELL#: 7 M	) OF:	Ч
DEPTH (FEET)	COMPLETION DETAI		BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
		6" Sch Stoffed R Govel T= 116 80'	d pipe	· ~ · · · · · · · · · · · · · · · · · ·	Felise, dede grey, noist plastic, coul, nin, organics Storped - 1423



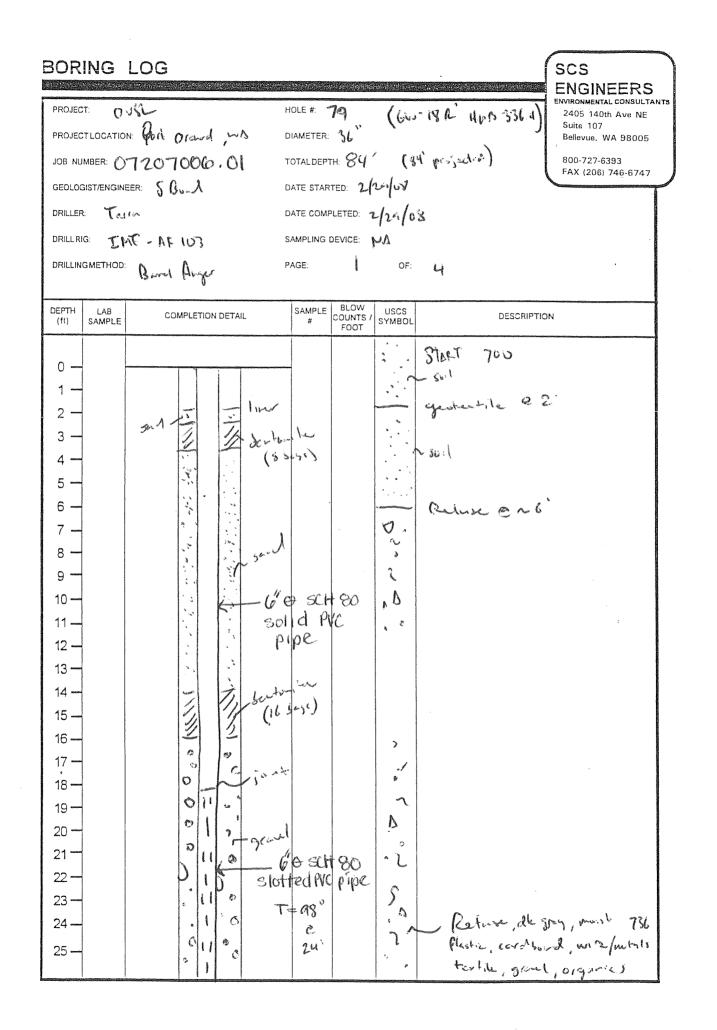
PROJECT: OVS	A.	HOLE/WE	ELL#:	18	
JOB NUMBER: 0	1207006-01	PAGE:	2	OF:	4
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
26 27 28 25 25 30 31 32 32	<ul> <li>11</li> &lt;</ul>			· · · · · · · · · · · · · · · · · · ·	Refuer, gray, maist Wood, plastic, metal suits, organics

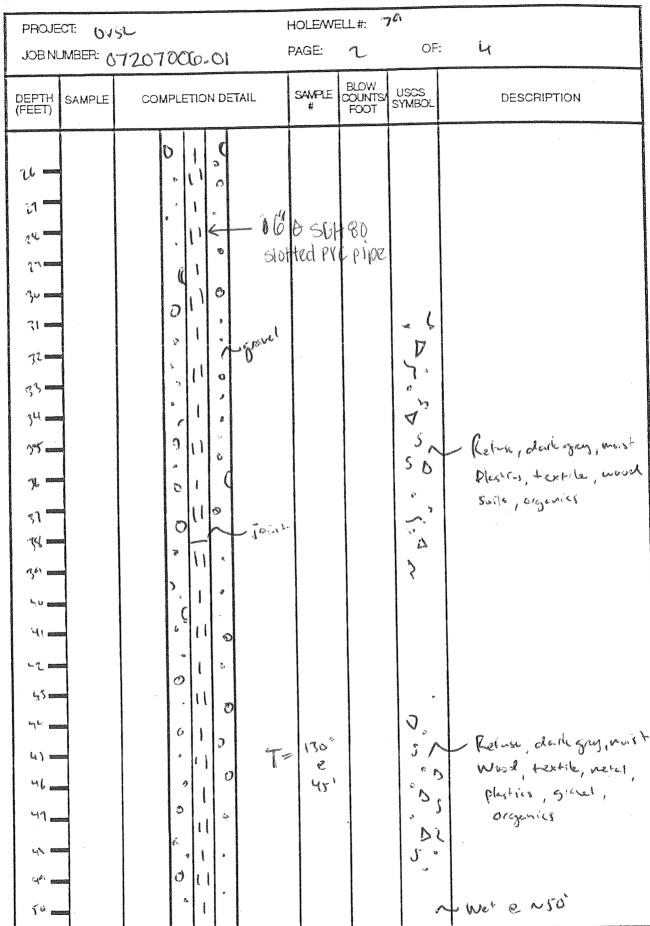
THE REAL PROPERTY OF THE

PROJECT: OVSU JOB NUMBER: O7		HOLEWEL PAGE:	⊥#: '7' '}	<b>9</b> OF:	4
DEPTH (FEET)	COMPLETION DETAIL	SAMPLE (	BLOW XOUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
	$ \begin{bmatrix} 1 \\ 1 \\ 2 \\ 1 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 1 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 1 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 1 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0$	SCH 8		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Retary, moist, v deckgog (1600) Wood, pinste, fartile, Mosod, gravel, v egennes Reterse, moist, v. dark gow Wood, fartile, plastic graet /cobles, organics

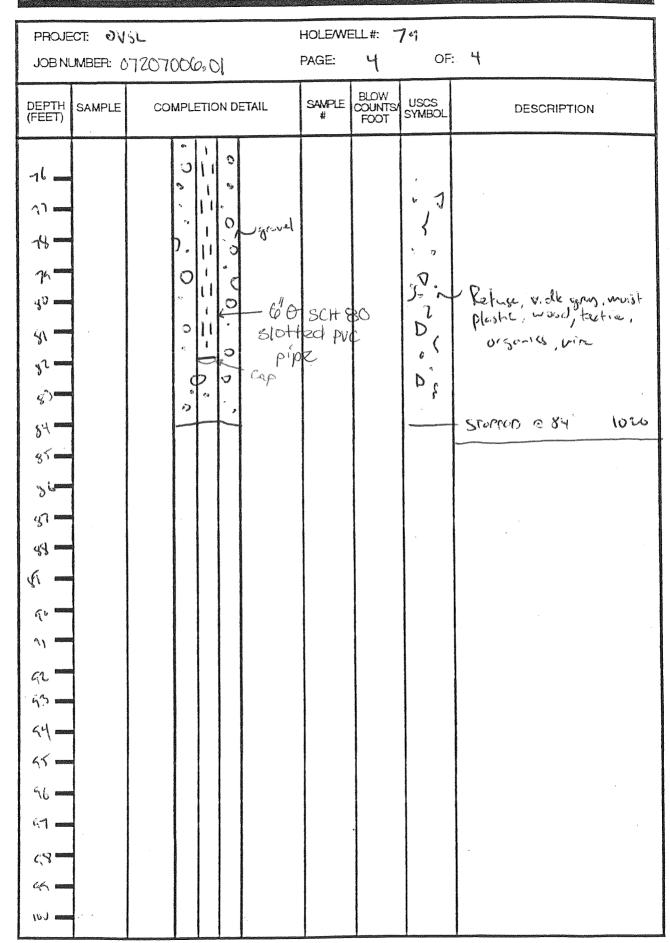


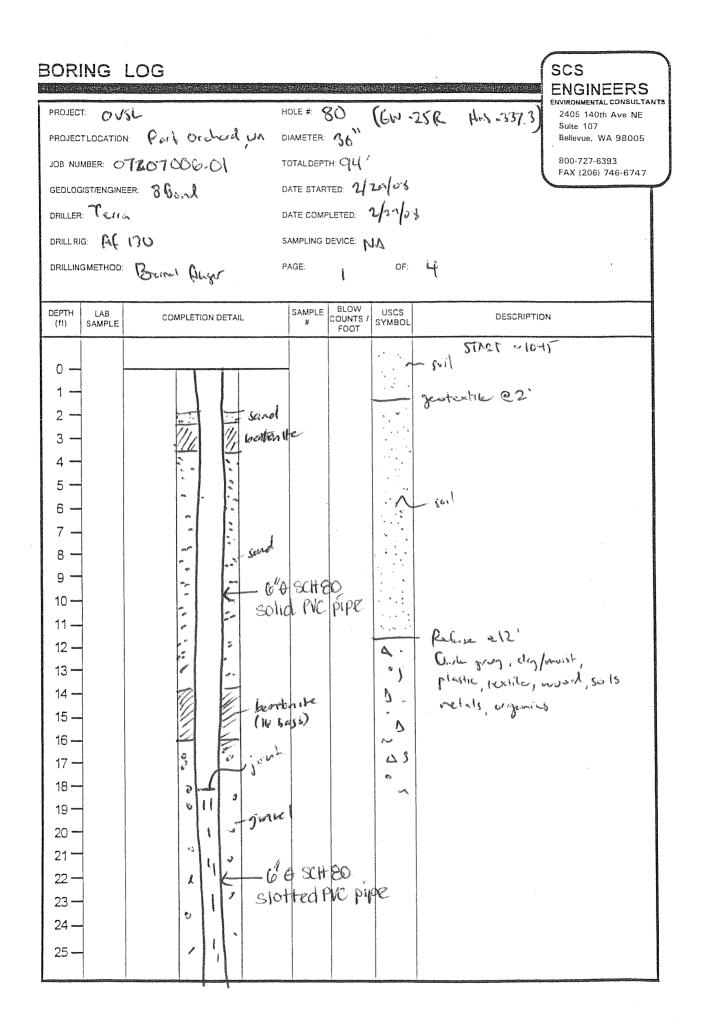
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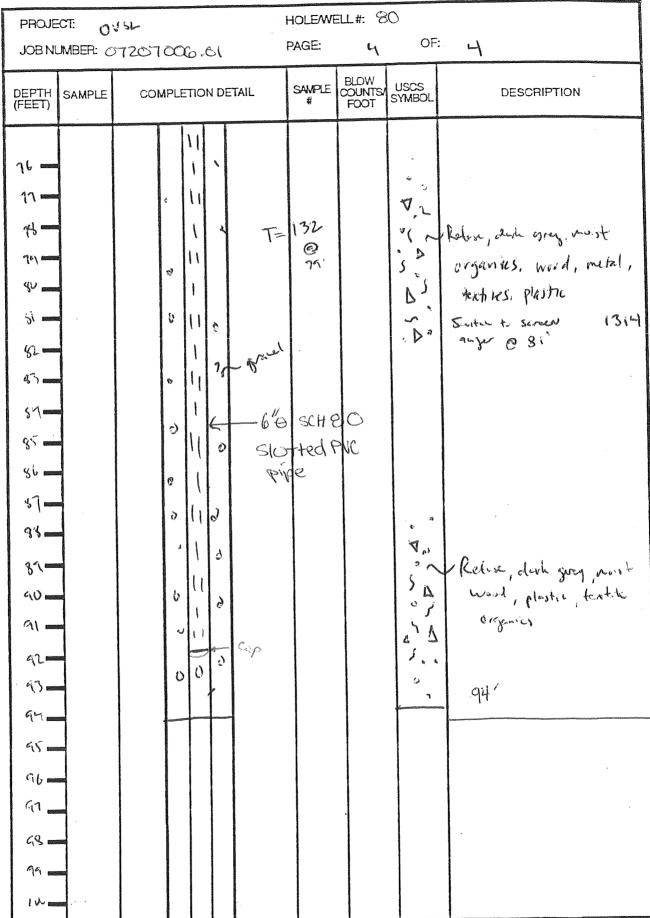
DEPTH     SAMPLE     COMPLETION DETAIL     SAMPLE     COMPLETION DETAIL     SAMPLE     DESCRIPTION $\mathcal{N}_{-}$ $\mathcal{O}$ $$	PROJEC JOB NU	<b>V</b> 4	21-	HOLE/WE PAGE:	3. 3	•	. 4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	DEPTH				COUNTS/	USCS SYMBOL	DESCRIPTION
	52 53 54 55 54 55 56 57 56 57 67 67 67 67 70 71 72 71		$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0$	e Gi S SCH Hed P Nipe		241 L Q 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Plastic, typile, most, Organics Switched to Sciler Switched to Sciler Switched to Sciler Switched to Sciler Switched to Sciler Switched to Sciler Clanshell Buchet & G8 - maturial is drive offer Sciling Refuse, clark Scy. V. Aust



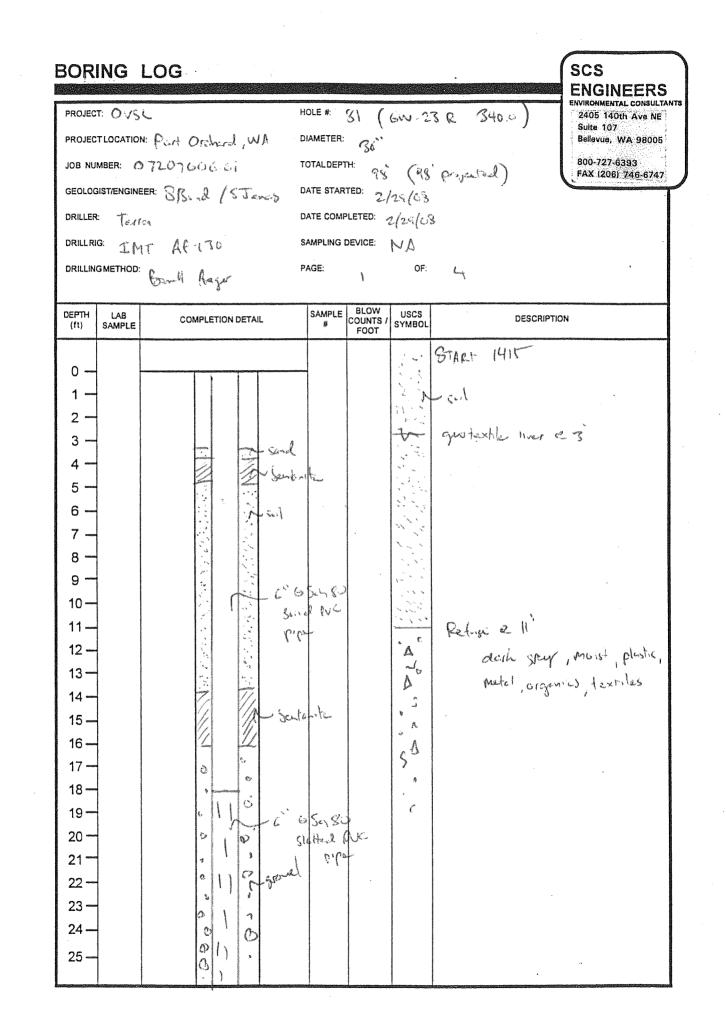


PROJECT: UV		HOLE/WE	1L#: S	32	
	-	PAGE:	ĩ		9
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
		122° B SSIT SCIT	RVC.		

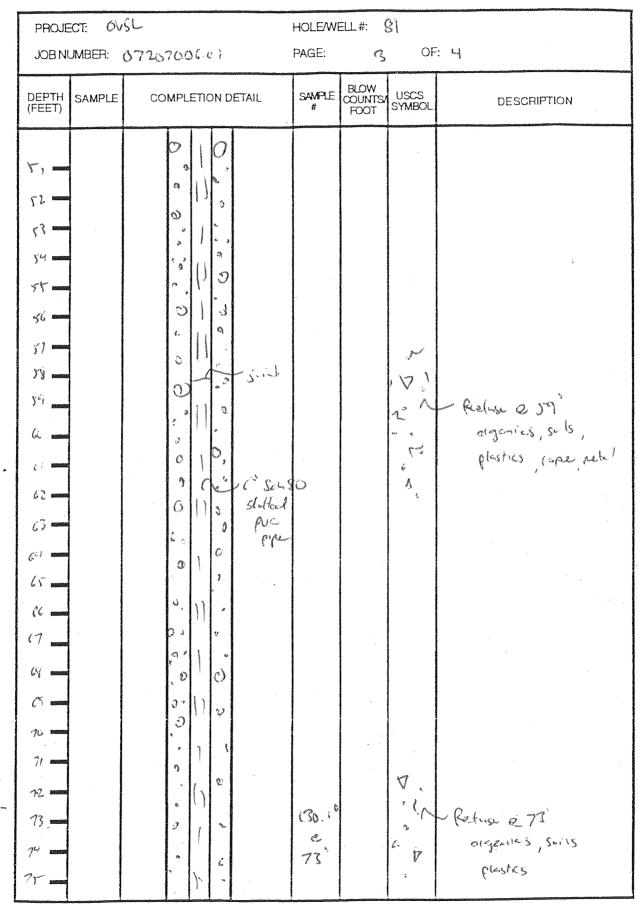
80 HOLEWELL #: PROJECT: OVSL 4 OF: PAGE: 3 JOB NUMBER: 07207006.01 BLOW COUNTS/ FOOT USCS SYMBOL SAMPLE DEPTH (FEET) COMPLETION DETAIL DESCRIPTION SAMPLE £ 110 52=  $\langle \gamma \rangle$ 1 54 55 -5 6 Char 56 = Aø 5 Э 57 . 0 D ą 54. Ŝδ Refue, deve gry, noist Plastic, moul, mercel, textile, organics 0 127" T= 54. *α*ς . C 59' ŝ lu. Ş 2 61 1 ~> 2 A 62 = 6"0 SCH 80 (]■ Stottled Pic d V pipe 64 . 4 ۲x ... ٥ (6 C 07. 6 l (y 🖬 J  $\mathbf{O}$ (") = 11 D - Refuse, dork gray, nois -Plastics, nearly textiles, organics 5 N. ١ P : 71 1) Juint. 6 8 12. 3 L 11 1 S 73 . ۱ ¢ -74 11 Ò ċ 75.

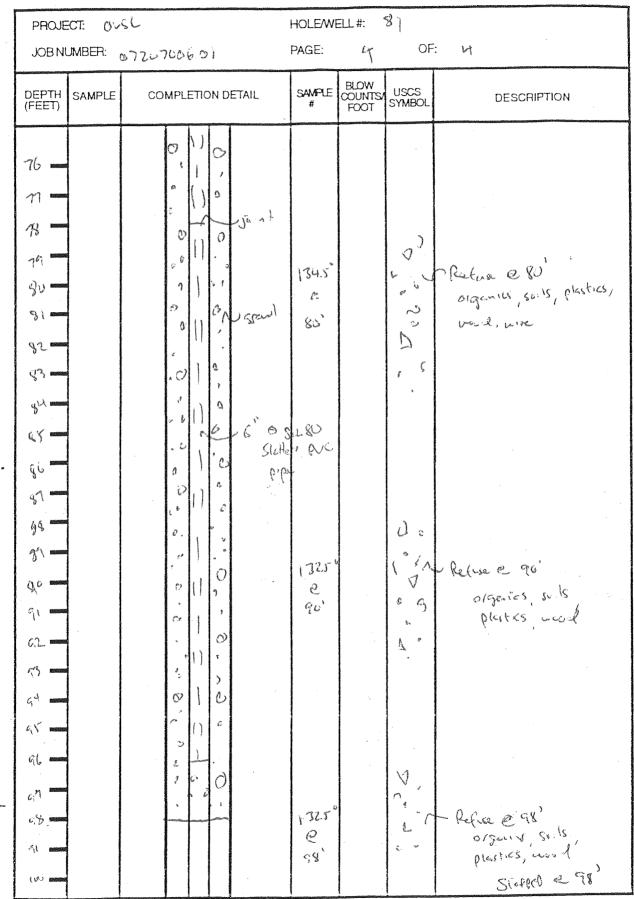


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PROJECT: O	USL .	HOLE/W	ELL#:	81	
JOB NUMBER:	07207656.01	PAGE:	2	OF	4
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
21 c7 c1 c1 c1 c7 c1 c7 c1 c1 c1 c2 c1 c2 c1 c2 c2 c2 c2 c2 c2 c2 c2 c2 c2	$\begin{array}{c} 0 &    \\ 0 &  $	~ 1		· A S	- Retise 2 28 dech grey, musit wound, plestic, textile organics - Ratine e 34 dech grey, musit, wound, plestics, organics - Ratine e 44 dech grey, Musit, netal, plestics, musid, cogenics





BORING LOG SCS ENGINEERS ENVIRONMENTAL CONSULTANTS PROJECT: OVSL HOLE #: 82 (GW-26R) 2405 140th Ave NE Suite 107 PROJECT LOCATION: PORT Orchard WA DIAMETER: 36" Bellevue, WA 98005 JOB NUMBER: 07207006.01 10 TOTAL DEPTH: 96 800-727-6393 FAX (206) 746-6747 GEOLOGIST/ENGINEER: M. Mendenhall DATE STARTED: 3/108 DATE COMPLETED: 3/108 DRILLER: TEVra DRILLRIG: JUT AF-130 SAMPLING DEVICE: OF: 4 DRILLINGMETHOD: Barrel Auger PAGE: BLOW DEPTH LAB SAMPLE USCS COMPLETION DETAIL COUNTS / DESCRIPTION SAMPLE (ft) SYMBOL FOOT STAVT 0950 0. 1 \_gand 2 Bendonte Geomembrane 3.5' 3 4 ۰, ۲<sup>°</sup> - 6'0 SCH 20 Solid PVC pipe 5 Refuse @ 5.0' deuse Dark Gray Plastics, wood, organics 1 6 ΔjA 6. ł 7. ſ 2.2 8 ý 9 . ĺ 10 -Soud dasin 11 -12 -13 -14 --Bentonute 15 -16 -17 s. DE Refuse 20' DE Overanics, plastics, wood DE Ran miliel 18 ß JOIN 19 å T= 1050 20 -Fisiated 201 ÷ 5 21-1 22 -. ( 1 -6"0 SCH80 23 slotted PVC 24 ŝ pipe ) 6 25 ù <sup>6</sup> ٤.

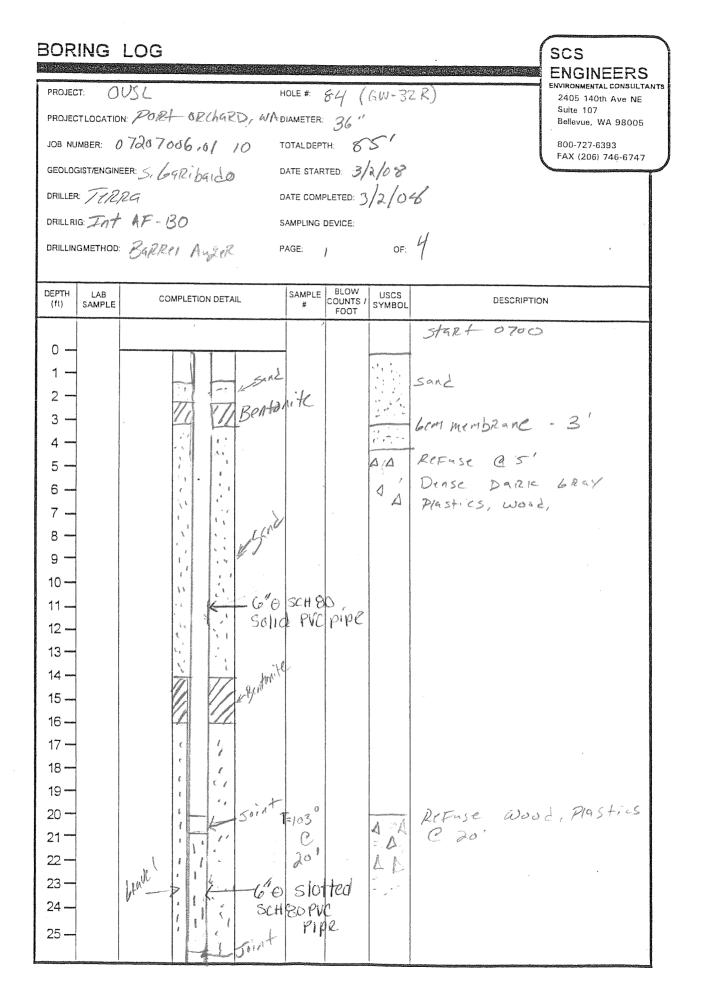
HOLEWELL #: 82 PROJECT: OVSL OF: 4 TASK JOB NUMBER: 07207006.01 PAGE: 2 BLOW COUNTS/ FOOT USCS SYMBOL SAMPLE DEPTH (FEET) COMPLETION DETAIL SAMPLE DESCRIPTION 쁆 Gravel AN B 61 26 1 3 11 4 8 27 \$ \$ Î 1 1) 28. 11 1 l 29 1 Refuse @ 30' plastics, wood, Melal ov games, small amount soil 11 66 1 2 Ø Air Vingi T= 123.0 30 ß 5 11 ę ) 50 ê è 31  $\Delta_{3}\Delta$ 1 Ł || ( ê 60 32 scited 33 J SICHED PVC 33. 2) pipe Ð 34. : 2 2 35= \$ 28 b 36. 1 3 6: 6 1 37 21 11 ş 38 = ้อ เ 69 8 ASA Refuse @ 40' ASA Plasfies, Organies ZNZA Rope, wire, wood Soils -1 . 39joint g ٤, 1 5 2 40-131.2 40' T= ŧ 1 41. 4 ä 3 42. 2 43= 8 44. å 45= 3 6 8 g 46-6.3 1. 3 47. 1.0 11 1 > 48. 11 ۱ ۱ 1 49 T= 135.7° 250 50° ١ 5D. 19: Rope, metals, wood 50149

PROJECT: OVSL HOLEWELL#: 82 JOB NUMBER: 070700401 TASIL PAGE: 3 OF: 4						
DEPTH (FEET) SAMPLE		SAWPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION	
51 52 53 54 55 54 57 58 57 58 57 58 59 60 61 62 63 64 65 65 66		et SCHE ted PV( 1325 Coo			Reline @ 60' organics, plastics wood, Meta (, Rope	
64 67 69 70 71 72 73 74 75		145.4		A A 2.	Refure (2 40' organics, piastics wood, wive, metal	

PROJECT: DV		HOLEWE			f
JOB NUMBER: 6	17007006,01 10	PAGE: L	1	OF:	4
DEPTH (FEET)	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
76 77 78 79 80 81 82 81 82 83 84 85 84 85 84 85 84 85	$ \begin{array}{c}                                     $	143.3° 30' SCH 80 Ted PV		A:22 4 A 2 5 A 2	Refuse @ 80' Organnes, sons metal, wood, plastics
88 89 90 91 92 93		1317° 90'			Relute @ 90' organics, soirs, wood, plastics.
94 95 94	Cap Sector Secto			P. 54 - 2.2 - 2.2	Refure @ 96' organics, wood, plastics, metal Sours - FINIAL @ 94

BORING LOG SCS **ENGINEERS** ENVIRONMENTAL CONSULTANTS HOLE #: 83 PROJECT: OVSL 2405 140th Ave NE PROJECTLOCATION: POTT Ouchand WA DIAMETER: 36" Suite 107 Bellevue, WA 98005 JOB NUMBER: 07207006.01 10 TOTAL DEPTH: 800-727-6393 FAX (206) 746-6747 GEOLOGIST/ENGINEER: M. Mendenhall DATE STARTED: 3/1/68 DRILLER: PV12 DATE COMPLETED: 3/1/08 DRILLRIG: IAF AF-130 SAMPLING DEVICE DRILLINGMETHOD: Barrel Auger PAGE: 7 OF: BLOW DEPTH LAB SAMPLE USCS COMPLETION DETAIL COUNTS / DESCRIPTION (ft) SAMPLE SYMBOL # FOOT STAVT 1320 0 -Leonenbane @ 2' Leonenbane @ 2' As: Refuse @ 3' As: dense dark Gray SA: organics wood plastics -1. No Well Set Fire in Formation 2 -3 -4 . 5 -6 -7 -8 9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19-AS, wood, Reofing materials SD Canstruction de prin. 20 -T= 115,5 21-22 -23 -24 -25 -

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PROJECT: JOB NUME	: OVSL BER: 07207	004.01	Task 10	HOLE/WE			: Z
27 28 29 30 31 30 31 32 32 33 34 35 36 37 40 41 41 42 42 44 44 44 44 44 44 44 44		AMPLE CO	MPLETION D	ETAIL		COUNTS/	USCS SYMBOL	DESCRIPTION
49- 50- 50- 50- 50- 50- 50- 50- 50- 50- 50	27 28 29 30 31 32 33 33 33 33 33 33 33 33 33 33 33 33				30' 131. 6	Aig		Note: Fire Burinning in Formation on East and Area (36) Refuse @ 40' Construction de broe Ward, Reating unternes plastics NoTEX Terminated dvill in pue to a Fire in the Formation From 12-36 Area Filled boring in/Dirt fill To 12' mark and Filled Bentonce 2' - Hydrade ter AND Fill Hole W/Dirt To



1.14

1

PROJE		-	HOLE/WE PAGE:	ELL#:	<del>४</del> -५ ०F:	. 4
DEPTH (FEET)	SAMPLE	7207016 10 10 COMPLETION DETAIL	SAMPLE	BLOW COUNTS/ FOOT		DESCRIPTION
(FEET)			#	FOOT	STNDOL	
24 22 22 22 22 22 22 22 22 22 22 22 22 2		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SCH 8. 20 PVC	pipe	1. A. 7. A. 7. A.	Refuse @ 39' Plastics, cartet soils
41 43 44 50		0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 0 0 1 0 0 0 0	138°		· A. D	REFUSE C 501 WOUL, WIRE, Plastic

Soils.

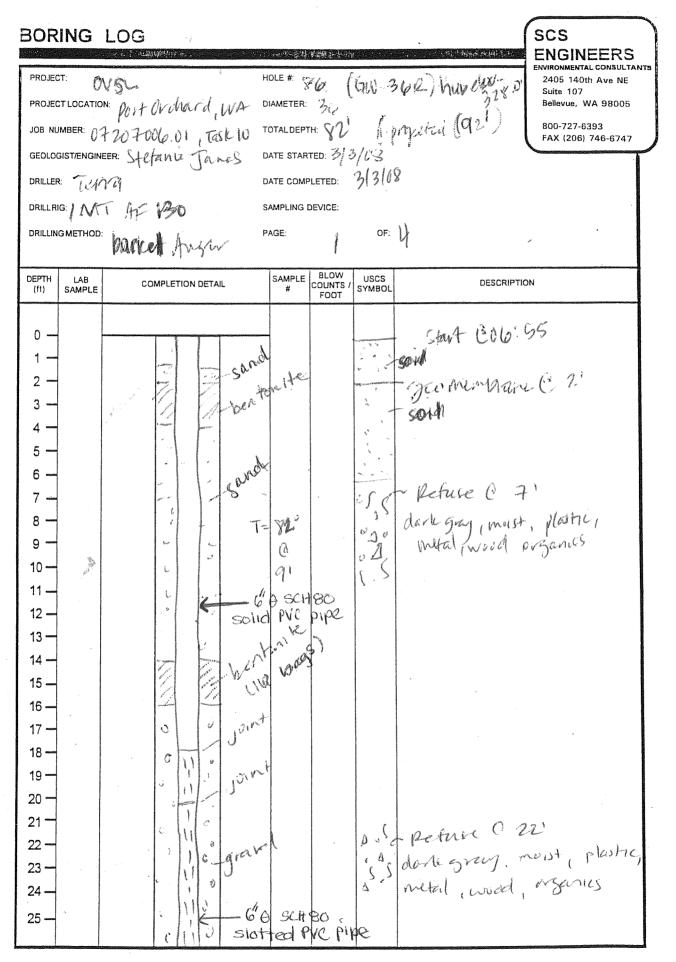
PROJECT:	OUSL			HOLE/WE	LL#: 8	-4	
JOB NUMB	BER: 07207	006.01	10	PAGE:	Ś	OF:	4
DEPTH SA	MPLE CO	MPLETION DET	FAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
51 52 55 55 55 55 55 55 55 55 55 55 55 55			Favel T=	3CH90 d PVC 134 63 132 70	pipe		REFUSE Q 63' WOUL, Plastics REFUSE Q 70' WOUL, Plastics

PROJECT: OVS	1207006101 10	HOLEWE PAGE:	ец#: 2 Ц		: 4
DEPTH (FEET)	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
76 77 78 79 80 81 80 83 82 83 83 83 83 83 83 83 85 85 85 85 85 85 85 85 85 85 85 85 85	0/10 Slot	SCHEO Red PVC Ba <sup>o</sup> So' So' So'	pipe.		Refuse C 80' Wood, Plastics, Soirs, Metal Final Depth C 85, Time 10:12

PROJEC PROJEC JOB NU GEOLOC DRILLEF DRILL RI	IMBER: 07 GIST/ENGINE C: TCRE G: TN	S L N:PORt-0 1207006 EER: S, 61R	,01 10 164120 30	HOLE #: DIAMETER: TOTAL DEPTH DATE START: DATE COMPL SAMPLING DE PAGE:	36 1: 67' ed:3/2, eted: 3	103	-31R) 3	SCS ENGINEERS ENVIRONMENTAL CONSULTANT 2405 140th Ave NE Suite 107 Bellevue, WA 98005 800-727-6393 FAX (206) 746-6747
DEPTH (ft)	LAB SAMPLE	COMPL	ETION DETAIL	SAMPLE #	BLOW OUNTS / FOOT	USCS SYMBOL	DESCRIPT	non
0 1 2 3 5 7 9 10 12 13 14			· · · · · · · · · · · · · · · · · · ·	SCH 80		· · · · · · · · · · · · · · · · · · ·	Strict 11:00 Sund Geo MembRane Sand Refuse C S Plastics, Meta	
15 — 16 — 17 — 18 — 20 — 21 — 22 — 23 — 24 — 25 —		Puvel ?		= 125 C 20 SCH 8 Heal PV	C	1.1.	Refuse Q 2 Hastics, Ca	01, Wood, RPet

PROJE		OVSL	HOLE/WI	ELL#: 8. 2		. 3
DEPTH (FEET)	SAMPLE	720766601 10 COMPLETION DETAIL	SAMPLE	BLOW COUNTS/ FOOT	NAME OF TAXABLE PARTY OF TAXABL	DESCRIPTION
267289 27289 2031 2333 3533 3533 3533 3533 3533 3533 35			T= 142° 401 Offed P >1pe Mt T= 136°			Refuse C 50' Plastic.

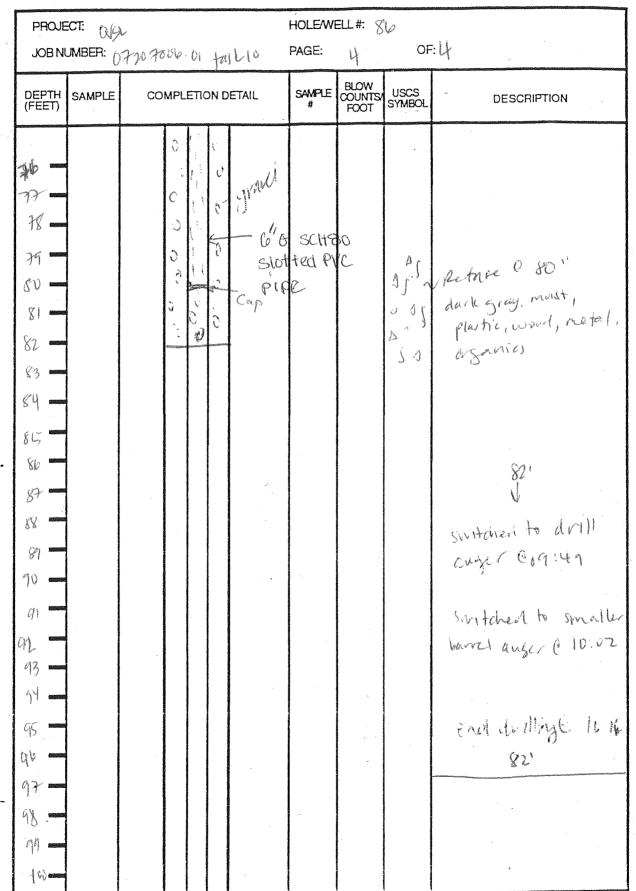
PROJECT: のび JOB NUMBER: 07		HOLEWE PAGE:	ell#: 6 3		3
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
51 52 53 54 55 55 55 55 55 55 55 55 55 55 55 55	$ \begin{array}{c}                                     $	n de la constant de l			Retasal C 67' ISOO

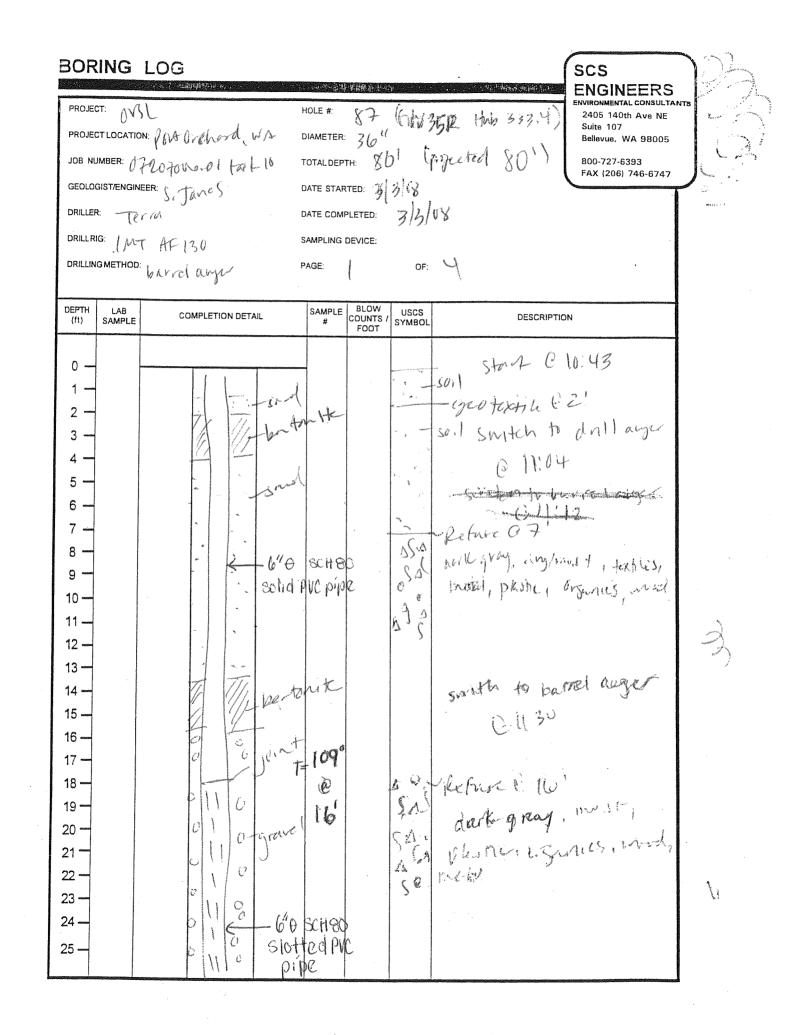


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HOLE/WELL #: 86 PROJECT: NSL JOB NUMBER: 0770 70010 (10 10) 101/010 PAGE: 2 OF: J BLOW COUNTS/ FOOT USCS SYMBOL DEPTH (FEET) SAMPLE SAMPLE COMPLETION DETAIL DESCRIPTION W 24 dare gran, moist, mutal, wood, trythles, 21 T= 133° 0 20 OA 291 40 31 ovapinics れし ellari 33 0 60 SCH SC  $\sim$ Slotted PVC pipe JS- Reput 8 361 Û 20 , 1 47 darte gray, moist, in novel, agarnes, texples 300C 28 N 1 M 10. Dt Plastic Υi ØI 12 ųģ 44 1) Victure (245) 1) ) and say, month, 15 month and T= 139° 45 C  $\mathbb{W}_{i}^{h}$ 's 1 wood organics, plaste 451 6 ŗ, 0800 - bucket pm brille ( 45'

HOLE/WELL #: R PROJECT: MIL OF:U 3 JOBNUMBER: 07209006.01 Jost 10 PAGE: BLOW COUNTS/ FOOT USCS SYMBOL DEPTH (FEET) SAMPLE COMPLETION DETAIL SAMPLE DESCRIPTION 6 51 SS Rehure C 521 ASS done gray moist, initial, word plastic, typics, organics 42 Ô 55 54 60 SCH 80 55 200 STOTLED PVC 0 56 pipe 52 1 Ű 58 ( print Ĉ TZ ILOS A. S. Refue @ SAI of as dork gray, nost, as organics, hered, 54 50 D 1 691 6 (n) = 1 62 trilla, plantic metal 03 C 64 υŚ W public through DWY. (28 = . growl (0<sup>6</sup>\ • 0 Ô 70 1 71 . (139' San Returne 72' T= NU Soldere Ő derk gring, mist, plastic, toobles, would xn. n) 24 . Δ Õ Xu organis

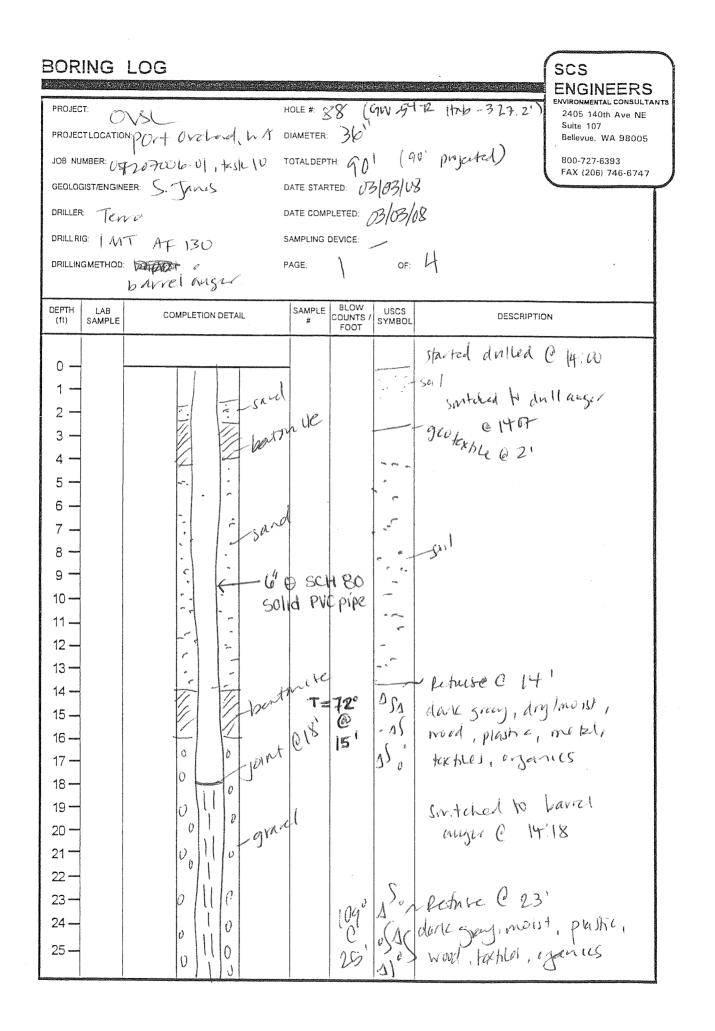


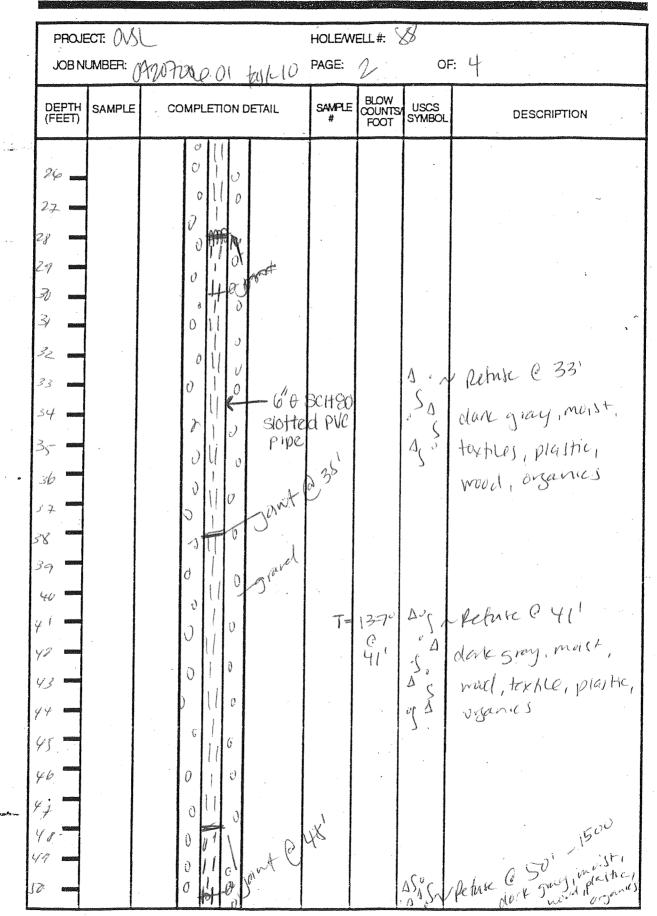


87 HOLE/WELL #: PROJECT: NY OF: U JOB NUMBER: 07/207020.01 tail/10 PAGE: 2 BLOW COUNTS/ FOOT USCS SYMBOL DEPTH (FEET) SAMPLE COMPLETION DETAIL SAMPLE DESCRIPTION 0 planke @ 27' derke gray, mitsty planke, metal, movery espanies 10 2 27 S 28 ĥ 50'5 ζ. 31 U 31 6 6 SCH 90 22 6 Slotted PVC s of fetner @ 34' s s s derkgray, mait, s s planc, would, organici, metal 0 11 pipe 33 ð 34 ΣV 5 36 1 joint 39 (thermometer broke or battery dead ð 38 \* Ń 0 30 39 40 ĥ  $\mathcal{O}$ 41 s' petite @ 441 155 date gray, mout 1 es 8 Mytic, word, metel, 5' organics 42 judu 43 Đ D đ 0 46 Ù 0 42 VV 0 0 48' - 12:31 switched to drillauger Ċ Ĉ .)

HOLEWELL #: 87 PROJECT: 015 JOB NUMBER: UTROTIOL.OI Takk 10 PAGE: 2 OF: 4 BLOW COUNTS/ FOOT DEPTH (FEET) USCS SYMBOL SAMPLE SAMPLE COMPLETION DETAIL DESCRIPTION 쁖 Vamel smitch to Vare aujer @ 1230 37 Ä 52 53 ð D.S. Keture C 55' SY 52 5.5 dark Stag. must. o Sturkles, wood . netal 1° plashe, organics (SZ. T= 129 6 0 0 part CZ60' 11 Sp Ø 57 ŝ 0 40 6 ē 61 6 0 SCH80 62 0 ð Stotled PVC 63 0 pipe 64 0 67 6 25 darkgray, moist, 670 Ċ 1126° 62 T= aly wid plathe, organics . Cd 64 70' log 0 0 20 Ô 1 1 D 0

HOLEWELL #: X3 PROJECT: OVS OF: JOB NUMBER: 07207006.01 PAGE: BLOW COUNTS/ FOOT DEPTH (FEET) COMPLETION DETAIL SAMPLE USCS SYMBOL SAMPLE DESCRIPTION lemire 78' 60 SCH 22 done gray mist plus hy wood i ganic, miles No Slotted PVE pipe Ô 27 linz-stopped dullig. 80' ian Ø 78 4 Cap 79 ÷.  $\phi$ Ô D 81 82 83 84 67 ¢ø 52 X 84 90 91 92 93 94 25 46 93 98 29 q

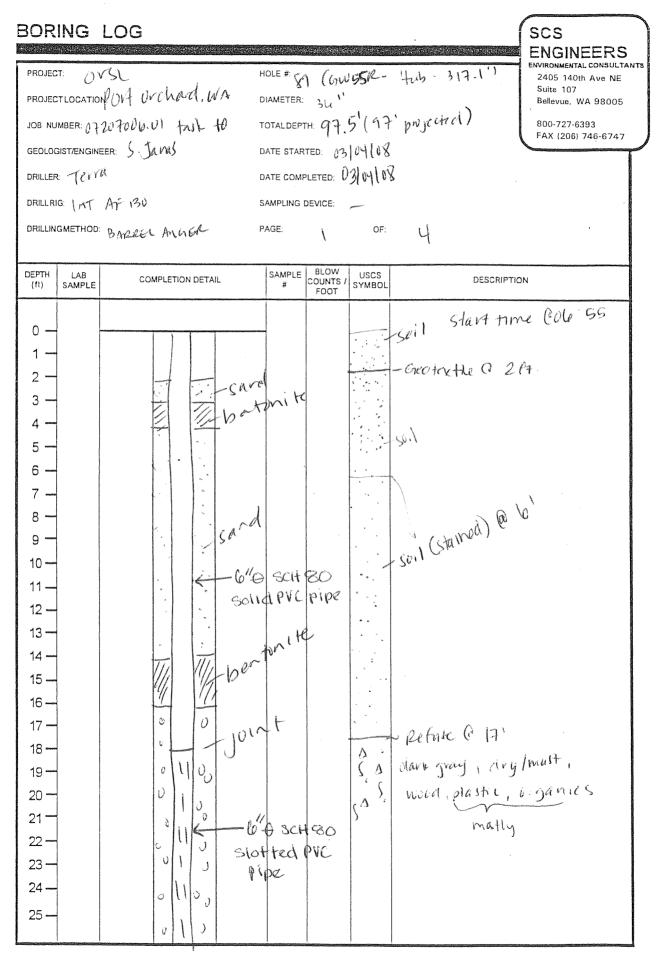


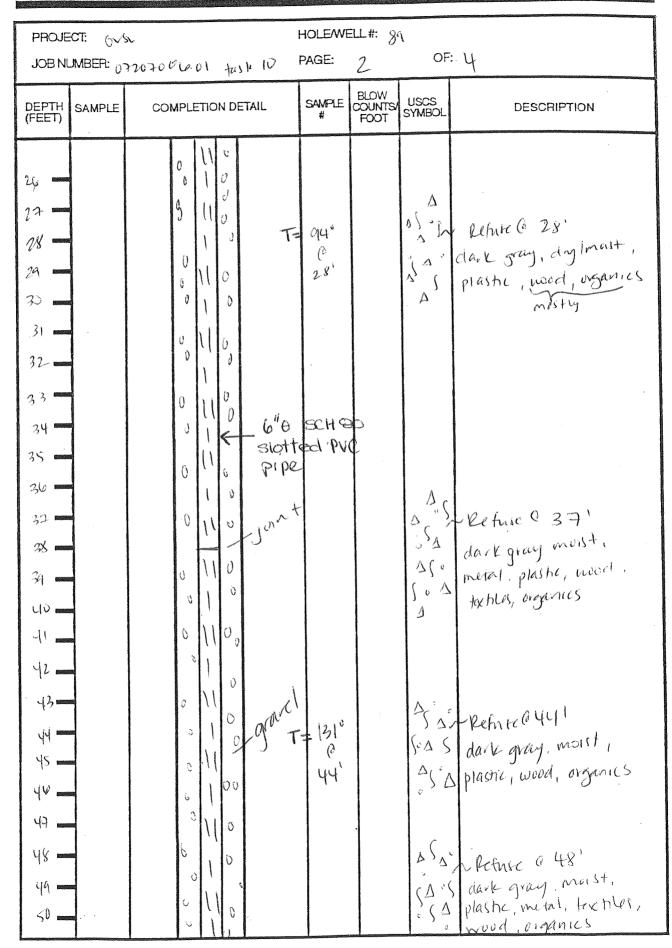


PROJECT: OV	SL	HOLE/WE	ELL#: '	88	
2	207006.01 fack 10	) PAGE:	3	OF	÷ų
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
(FEET) 57 52 53 54 55 57 55 57 57 58 59 40 58 59 40 40 40 40 40 40 40 40 40 40	$ \begin{array}{c} 0 &   &   & 0 \\ 0 &   $	$T = 141^{\circ}$ $U = 141^{\circ}$ $U = 141^{\circ}$ $U = 141^{\circ}$ $U = 141^{\circ}$	COUNTSA FOOT	SYMBOL SA SA SA SA SA SA SA SA SA SA	Reture C Lel' dark Sray moist, textiles, wood, plastics, organics.
75 -	010				

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PROJECT: OV	/	HOLE/WE PAGE:	=11#: SS 4	OF:	с». Ц
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
70 77 77 78 71 80 81 82 83 87 85 87 91 92 91 92 91 92 91 92 91 92 91 92 91 92 93 94 $15^{5}$ 90 91 92 $75^{5}$ 90 91 $75^{5}$ 90 91 $75^{5}$ 90 91 78 93 93 93 $15^{5}$ 188 93 100 100 100	elle slott pip	SCHER Ed PVC		∆ {° ° { ∙ ∆ ∆ °	Retaic ( 79' dorkgray, moist, wood, textiles, metal, plastics, organics Retaise ( 85' darlegray, moist, prood, plastic, organics stopped dulling ( 1641. 90'

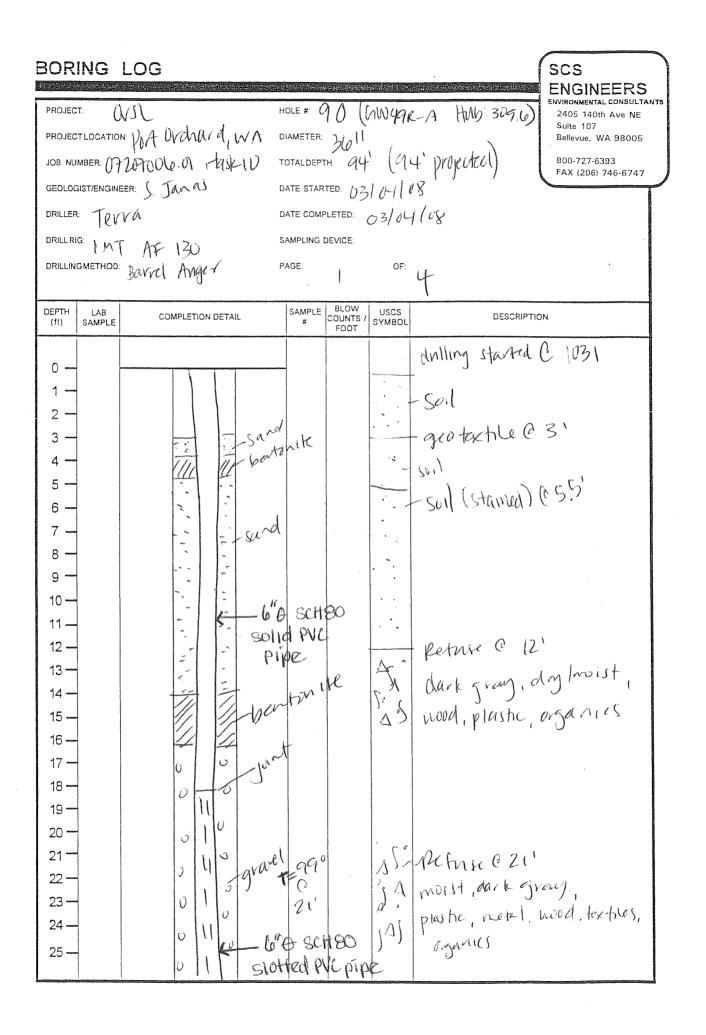




PROJECT: ∂√		HOLEWE	ELL#: Se	•	
JOB NUMBER: (	A207006.01 tark W	PAGE:	3	OF:	÷ Ý
DEPTH (FEET)	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
51 52 53 54 55 56 58 58 59 40 41 40 41 42 43 44 44 44 45 44 44 44 44 44 44 44 44 44	00000000000000000000000000000000000000	e scr luo' tted f pe			Sontained to durill auger CUSP38 Metric @ 741 during moist; textiles,

PROJECT: ∂V	SL	HOLEWE	ELL#: <i>Sl</i>	1	
-	A20700601 task 10	PAGE:			4
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
76 77 78 78 71 80 81 82 83 84 85 84 85 84 85 86 87 86 87 86 87 86 87 86 87 86 87 86 87 86 87 86 87 86 87 90 91 92 93 94 95 94 98 94 80 94 80 94 1000 1000 1000 1000 1000 1000 1000 1000 1000 10000 1000000000000000000000000000000000000	$\begin{array}{c} 0 &    \\ 0 &  $	0 SI P SCH red PV(			Petrice C Sl' dar gray, must b vorg must, textiles, metal, phinc, noved, organics. Ketnise C St' renj merst, dorb sray plastic, organics, plastic, organics, ketnies, organics, plastic, organics, plastic, meta. total depth: 975' Stopped dalling C 10:01

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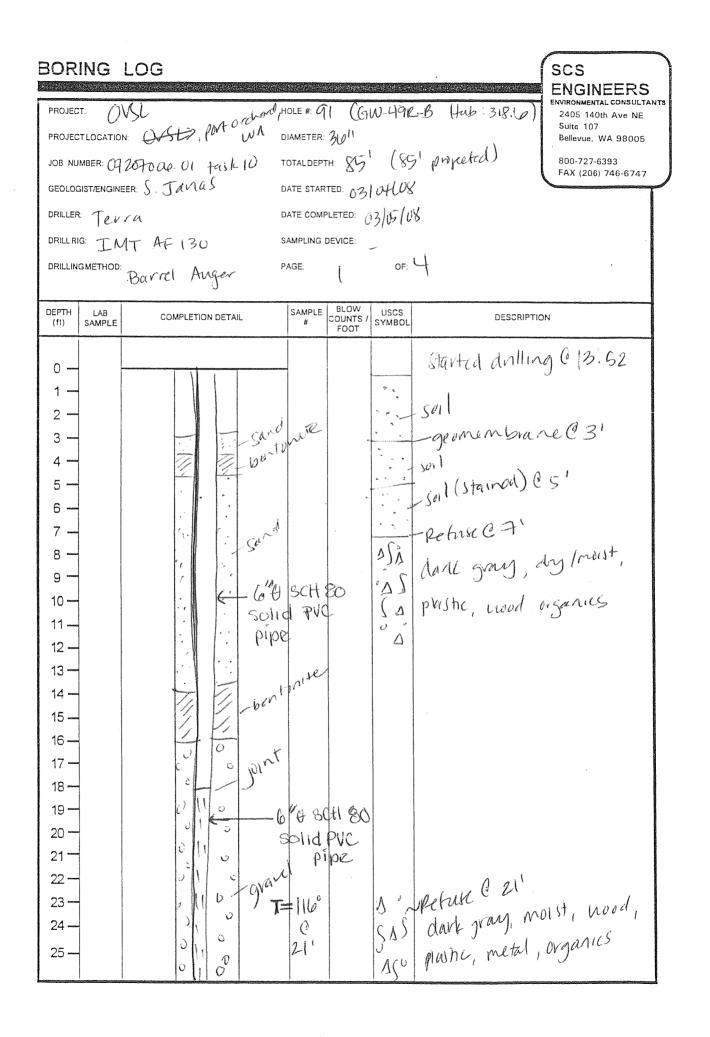


PROJECT: MVSL HOLEWELL #: 90 OF: 4 JOB NUMBER: 17707090 11 fail 10 PAGE: 2 BLOW SAMPLE USCS COUNTS/ FOOT DEPTH (FEET) SAMPLE COMPLETION DETAIL DESCRIPTION SYMBOL Ø 20 0 17 0 Û 6" el sch 20 N Ø slotted prepipes p U m  $\mathcal{O}$ 6 U A .4 υ 32 6 T= 1400 Ũ AS peture 0341 SOA dare gray, mout, ASo wood, plastic, organiss から 0 U (° 341 6 2 U 0 W. N -Joint 0 U 27 Q 0 R ΰ 3A. () 40 0 41 ) 0 VIL ųЗ 6 J S " peture @ 441 Ssis dark grag. moist, S " toxtales. wood, phistic, Mutal, organics Û loyand 44 6 uS 1 υ ð Ýb U 47 6 Э 48 0 Ű 44 Ø  $\partial$ 9).

PROJECT: OV		HOLEWE			
JOB NUMBER: (	A207006.01 task10	PAGE:	3	OF:	. 4
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
51 52 53 54 55 56 55 56 58 58 60 60 60 60 60 60 60 60 60 60 60 60 60	$ \begin{array}{c}         C &     & 0 \\         C &   & $	SS' SCHSE Ed PV		د کر بر	Netwer @ 70' Nark gray, mout, Word, plastic, organics Return @ 70' dark gray, moust, wood, forther, plastic, organics.

	15L AZOAZOLO.01 task 10	HOLEWE PAGE:	ELL#:qU 4		4
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
74 22 38 30 80 81 82 83 84 85 91 92 73 54 95 94 95 94 95 94 97 95 97	ollo vllo	= 126 (° 85'			Refuse @ 78' dark gray, moust, wood, plaithe, textiles, organics Vark gray, very most, wood, plastic, textiles, metal, organics Actuse @94' dark gray, moust, wetal, organics Actuse @94' dark gray, moust, wood, plastic, metal, organics Stipped duilling @ 13.06 a4'

-



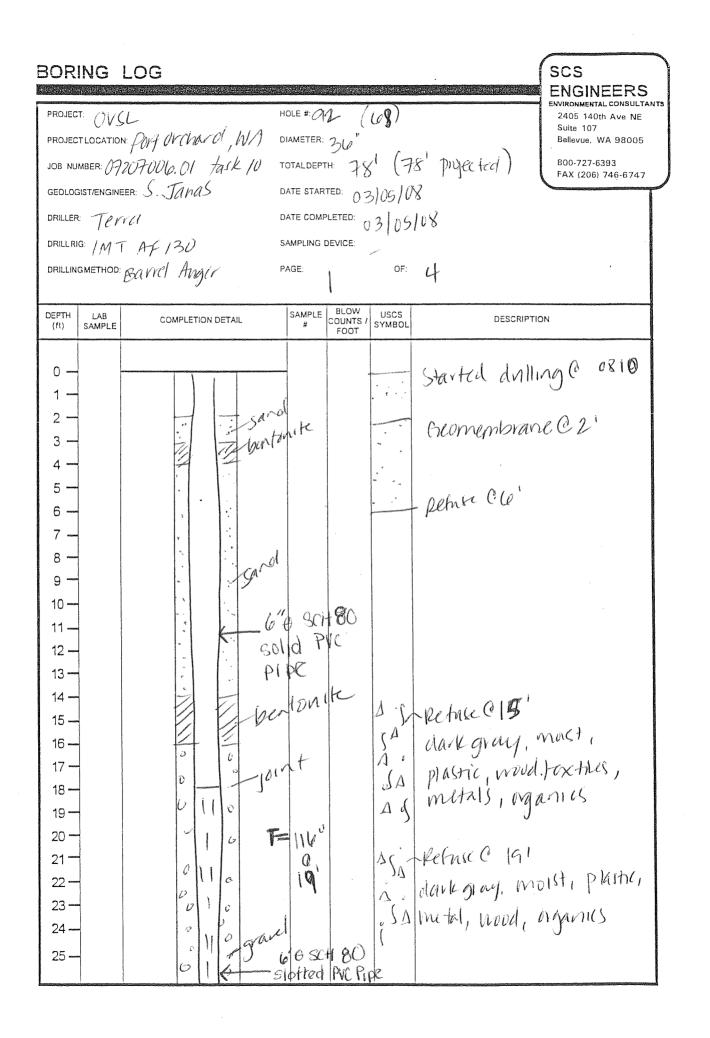
HOLEWELL #: 91 PROJECT: NVSL OF: 4 JOB NUMBER: 07207004.01 +45K10 2 PAGE: BLOW COUNTS/ FOOT SAMPLE USCS DEPTH (FEET) SAMPLE COMPLETION DETAIL DESCRIPTION SYMBOL đ 0  $\mathbb{O}$ 210 . ð 6 27 = ) 28 -C > 701 Ĵ 20 AS refute ( 32' , ) dark gray, moist, AS o metal, would, plastic, SA organics. U 3 6"0 SCH85 Ó 32 slotted PVC ð 23 pipe-()54 0 35 Э ) 36 Û Joint 27  $\mathbb{O}$ 38 39 0 Ð 40 0 SAS dark gray, moist, 41 101 rt TE 9 258 42 2 0 43 plastic, wood toxhles, 42 ° 2<sup>°</sup> 0 YV metal, organics. Δ. 0 Э 45. ò 40 Igravel 0 41 9 48 0  $\bigcirc$ 49 0 Ù 50

PROJECT: JUST		HOLEWE	ELL#: Q  3		
JOB NUMBER: 01	20900601 task10	FAGE.			4
DEPTH SAMPLE (FEET)	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
51 52 53 54 55 50 57 58 57 58 57 60 60 60 60 77 88 79 60 70 70 70 70 70 70 70 71 72 73 74 75	> 10 Sla > 10 Pi	Satt 80 ted F 144° 56' 70'			Verner OH' dark gray, moust, plastics, metal, textiles, wood, organics- sintched to drill auger @ 15 24 suricked to barred auger @ 15:42 Cethic @ Go' Nanggray, moist, need, plaine, metal, organics species @ 70' dark gray, most, plaste, wood, metal, organics

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PROJECT: OVSL		HOLEWE	ELL#: GI		
	7207006-01 task	-10 PAGE:	LL	OF:	· 4.
DEPTH (FEET) SAMPLE	COMPLETION DET.	AIL SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
70 77 78 76 80 81 82 83 84 85 84 85 84 85 84 85 86 87 84 85 86 87 84 89 90 91 92 90 91 92 93 94 95 94 95 94 95 94 95 94 95 94 91 95 94 91 95 91 92 93 94 91 95 91 91 92 93 94 91 95 91 91 92 93 94 91 95 91 90 91 91 92 93 94 91 95 91 90 91 91 92 91 91 91 91 91 91 91 91 91 91 91 91 91		- 6' Sche Slotted Pipe grave	pVC.		Retric (280' davkgray, moist, plastic, mod, metal, textiles, organics Switched to duill auger (2, 17:03 (83:)) Stopped anding (2, 17:07 Depth to bottom: 85' Depth to bottom: 85' Depth to bottom: 85' Duiling, well install, 4 gravel done on 3/4 Bentonike, sand done on 3/5

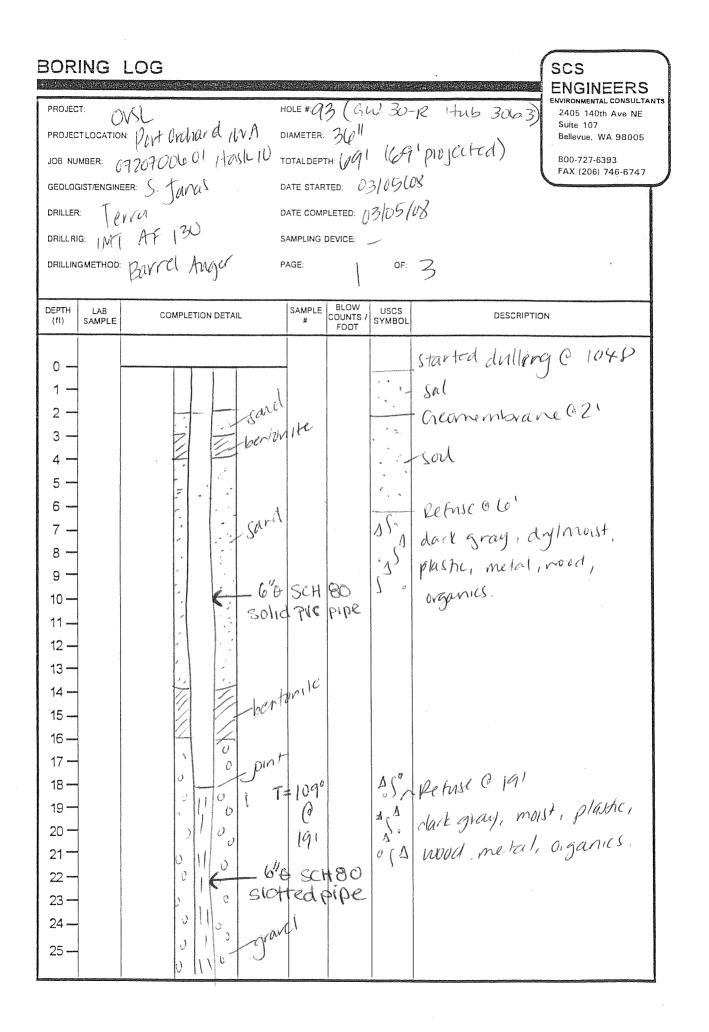
BORING LOG SCS ENGINEERS ENVIRONMENTAL CONSULTANTS PROJECT: OVSL HOLE #: CYDXX (A) 2405 140th Ave NE PROJECT LOCATION: POA Overhand, WA Suite 107 DIAMETER: 201 Bellevue, WA 98005 JOB NUMBER: 07209006.01 tallel TOTALDEPTH: 14' (projected 78') 800-727-6393 FAX (206) 746-6747 GEOLOGIST/ENGINEER: STUNAS DATE STARTED: 03/05/08 03/05/08 DRILLER: DATE COMPLETED: 1 prra DRILLRIG: IMT AF 130 SAMPLING DEVICE DRILLING METHOD: PAGE: OF Barrel Anger BLOW DEPTH SAMPLE LAB USCS COMPLETION DETAIL DESCRIPTION OUNTS / (ft) SAMPLE SYMBOL FOOT Dulling started C7.06 0 -: i soul Geomembrane CZ: 1 -2 -+ Sa-of batante 3 -Cor 4 -ASA Retute @ 7' SAS dark on 5 -6 dark gray, dry I moist, 7 sard 8. organics. 9 -10 -11 -12 -·> Petrise @ 13' Δ SA dark gray, most, A platte, organics, tachles, metal 13 -14 -15 -16 -17 -18 -Nary Thick rope 0141 19 could not durit find or pull out. Hole abandoned /mored. 20 -21-22 -23-A filled in I sand , scaled 24 with bentonite. 25 -



PROJECT: OVSL	an na anala ka ka na anang kapuna na pangan kanan sa minan a na pangan dina sa na pangan sa na pangan sa na pa -	HOLE/WE	ELL#: 9	2	
JOB NUMBER: 0720700401 task 10 PAGE: 2 OF: 4					
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
20 $2^{-7}$ 18 $2^{-7}$ 18 $2^{-7}$ $7^{-1}$ $7^{-1}$ $3^{-7}$ $3^{-1}$ $3^{-7}$				) <b>.</b> ,	

HOLEWELL #: 97-PROJECT: UNSU OF: 4 JOB NUMBER: 07207000.01 task 10 PAGE: 2 BLOW COUNTS/ USCS SAMPLE DEPTH (FEET) SAMPLE COMPLETION DETAIL DESCRIPTION SYMBOL FOOT Ũ SI Ô Δ, fetnice 52' SΔ, davkgrauf, moist, SοΔ metal, plastic, wood. Δ S organics. ĉ 52 đ Ĵ 53 0 C 54 ŵ Ø Junt 59 0 θ 56 C 57 ÷ 58 Ù 59 ) Û S peluise @ le2' (S) dark gray, moist, A plastic, wood, organies, A metal A of ψŨ Ο 0 6"0 SCH 80 Ô  $|\psi|$ slotted PVC b 62 pipe U 63 64 9 05  $\mathbf{O}$ 66 Ô Ь V 1:7 18 Ć 0 69. ss petuse (70) s dar Logran, moist, s metal, pravinc, ward, taxhlas, organics. 0 20 . T= 138 ð 21. () 70' 2 72 50 gavel υ 73 Ũ ۵ 74 C 26

PROJECT: 04 HOLEWELL #: Q2 JOB NUMBER: 07207024.01 faste 10 PAGE: 4 OF: 4					
DEPTH SAMPLE (FEET)	COMPLETION DETAIL	SAMPLE BLOW # FOOT	SY USCS SYMBOL	DESCRIPTION	
740 72 78 78 79 80 81 80 81 82 83 84 85 86 84 85 84 85 84 85 84 85 85 84 85 85 85 85 85 85 85 85 85 85 85 85 85	o U to cepsion o u grand o u grand	1 1		Refur Q Flo Clark gray, moist, plastic, noad, me tal, toxtolos, organics Topal Depth: 78' Stopped dulling C 959	



	PROJECT: OVS		HOLEWE	1		$\sim$
	JOB NUMBER:	207000.01 talk10	PAGE:	2	OF:	3
	DEPTH SAMPLE (FEET)	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
-	260         27         28         27         30         31         32         33         31         32         33         34         35         36         72         38         37         38         37         40         41         42         43		SCH8 Ted P Re 26° 43'	0	( Å	Petrisc CH3' dark gray, moist, plastic, wood, metal, organics Vertisc CH3' dark gray, mout,
4	44 45 46 49 50	$\begin{array}{c} \circ 1 \circ 0 \\ \circ 1 \circ 0 \\$				dark gray, mout, plushe, metal, fathles, wood regames

HOLEWELL #: 93 PROJECT: OVSL OF: 3 PAGE: 3 JOB NUMBER: U7207406.01 task10 BLOW SAMPLE COUNTS/ USCS SYMBOL DESCRIPTION DEPTH (FEET) COMPLETION DETAIL SAMPLE 0 GI ΰ ΰ Ũ SZ. 6 1 o  $\mathcal{I}$ L 63. A) petnie C54' S's dark gray, molst, S pastic, textiles, S wood, inetal, organig C 54 0 55 b Ø  $\boldsymbol{\omega}$ 50  $\mathcal{O}$ 57 6" O SCHEO ) 58 Slottled RVC 59 pipe ÷. 40 .  $\mathcal{O}$ AS petuse Q 631 "JA dark gray, most, D'S pristic, would, organis UL Ø I b In T= 128° (° 103' 6 ð 63 -0 4. Ø ۵ 。 65 Λ Δ gravel 40. ΰ Shupped dalling @ 229 47 Cap ΰ 1 68 Ó д 0 pital deptri: (091 69 0 Ö 0 N 71 N 73 24 95 -

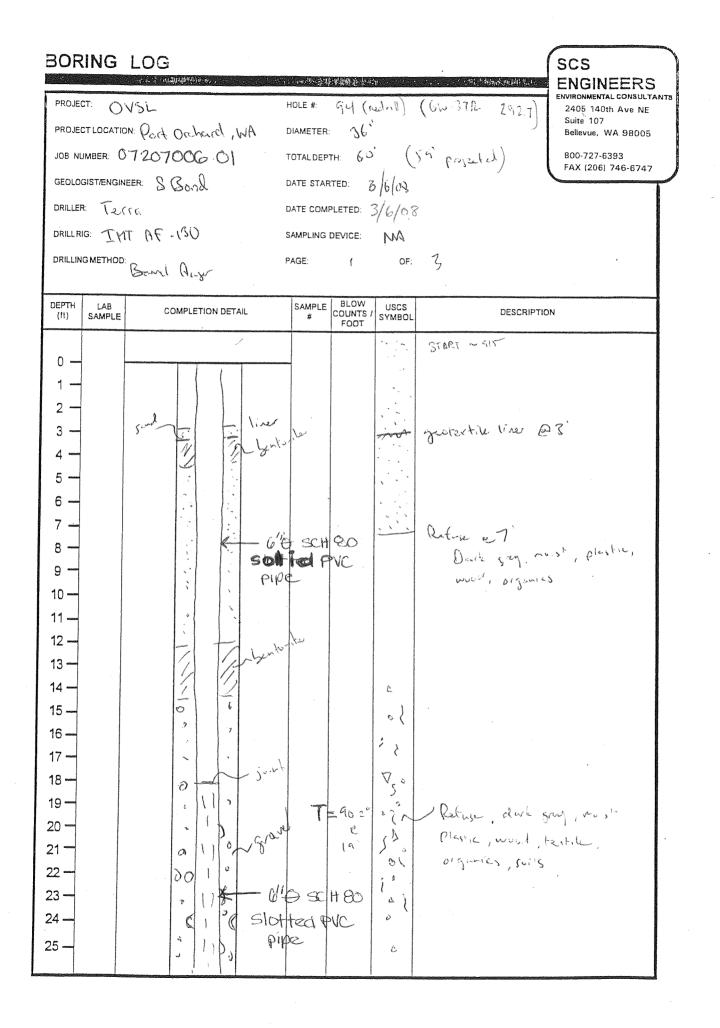
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BORING LOG SCS ENGINEERS ENVIRONMENTAL CONSULTANTS HOLE # 941 GW37R Hub PROJECT: (NG) 2012.7) 2405 140th Ave NE Suite 107 PROJECTLOCATION: PUA Ward WA DIAMETER: 36" Bellevue, WA 98005 JOB NUMBER: 07207006.01, task (OTOTALDEPTH: 30' (59 projected) 800-727-6393 FAX (206) 746-6747 GEOLOGIST/ENGINEER: S. Janas DATE STARTED: 03/05/08 DATE COMPLETED: 13 US US DRILLER: Terra DRILL RIG: SAMPLING DEVICE IMT AF 130 DRILLINGMETHOD: Barvel Anger PAGE: OF: BLOW DEPTH SAMPLE USCS LAB COMPLETION DETAIL DESCRIPTION COUNTS / (ft) SAMPLE SYMBOL # FOOT started drilling @ 1255 0 --soil preumembrane ( 3.5 ' 1 2 114 bentmite 3 4. - 501 5 -6 --Retuse @ 7' A SAS dorrgrang, dry moist, SA: plastic, wood, organics 7 -8 -9 -0SA 10 -11 -12 -13 -14 -15 -16 -17 -18 prepure 019' 19 -T=1190 20 dork gray, moist, plastic, textiles, organics ß 21-'n 22 -23-24 -25 -

in the second

PROJE	ст: ()√\$1	L		20102/1000		HOLE/WI	ELL#: 9	14 XX	C
JOB NU	MBER: ()	72076	XX 0. 0	).	ask 10	PAGE:	2	OF	2
DEPTH (FEET)	SAMPLE	CO	MPLETIC	DN D	ETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
260 27 28 29 20 31 32 37 32 37 35 37 35 37 35 37 35 37 35 37 38 37 38 37 38 37 40 41 42 47 47 47 47 47 47 47 50 50 50 50 50 50 50 50 50 50 50 50 50					Sund				Retrice @ 32! dark gray, moist, philtic, would, textiles, organics Refuse @ 25' (1250) dark gray, moist, plashe, would, mitral, pexhles, organics. Switched to dull auger @ 1417 (3+') Switch Ato Danved auger @ 14446 (3) Switch Ato Danved auger @ 1446 (3) Switch Ato Danved auger @ 1446 (3) Switch ato Switched to corer aug ~ 01448 abandoned/fillod/seale Weil @ 13:36 Final Dupth = 30



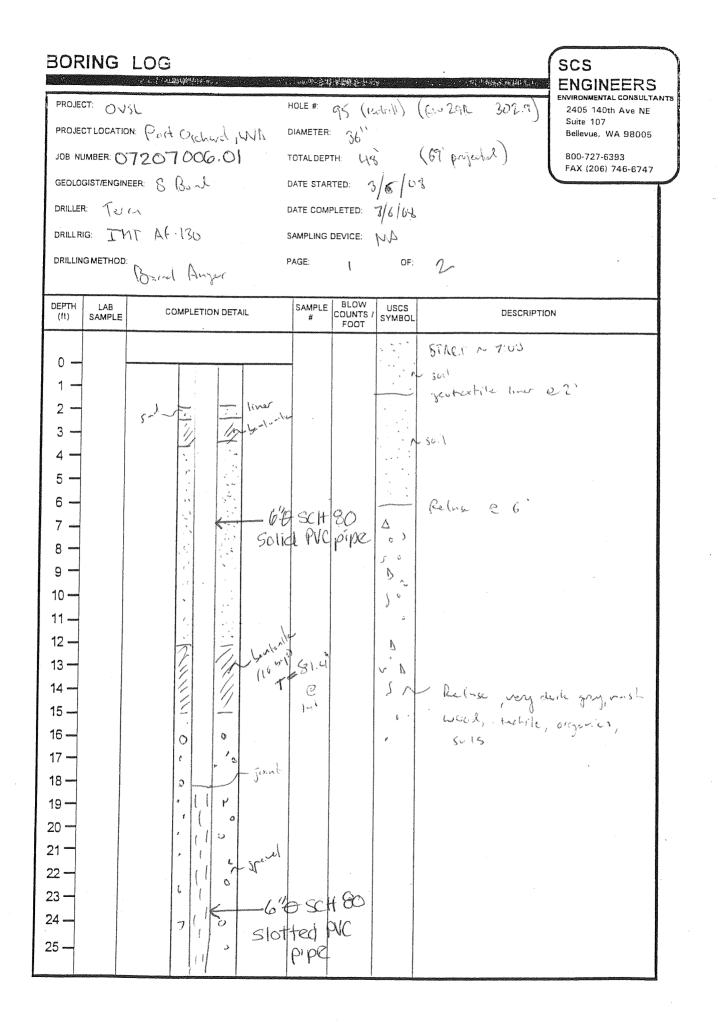
PROJECT: ÛV JOB NUMBER: €	51 07207006,01	HOLEW PAGE:	ELL#: 0	zu (reh	A
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS FOOT	USCS SYMBOL	DESCRIPTION
26 21 24 20 30 30 31 32 35 34 35 35 34 35 35 34 35 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35		E SCH 8 Ed PV Pipe	C	× 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Refuse, device gray, most Plasmin wood, teetile, retal, organ is, grand Plastics, textiles, wood organics 1121

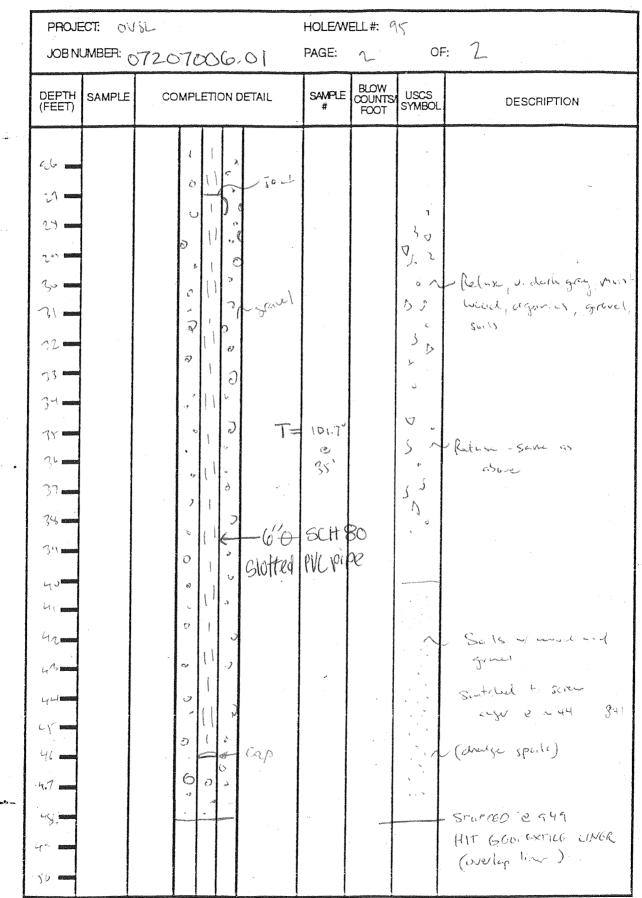
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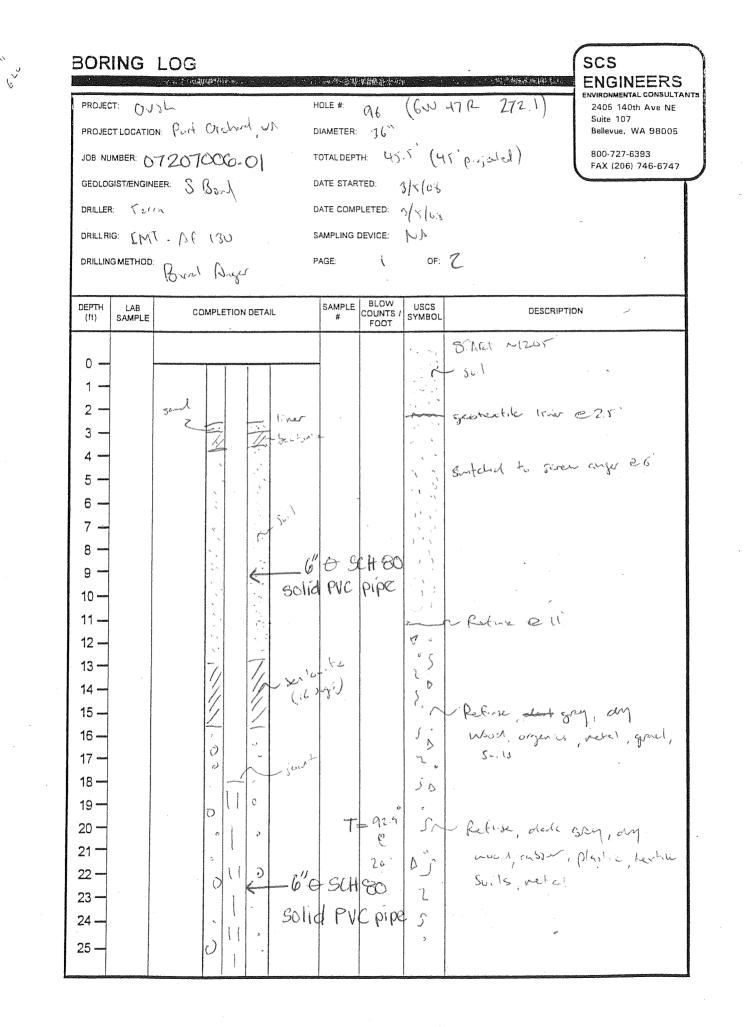
PROJE JOB NL	ict: <sub>OV</sub> Imber: ()	570C	10.01		HOLE/W PAGE:	ELL#:		e.arl) F: 3
DEPTH (FEET)	SAMPLE		ON DETAIL		SAMPLE	BLOW COUNTS FOOT	USCS SYMBOL	DESCRIPTION
51 52 53 54 55 54 57 58 57 60 61 62 61 62 61 62 61 62 61 62 61 62 61 62 61 62 61 62 61 62 61 62 63 64 64 64 64 64 64 64 64 64 64 64 64 64				60 5107 PI	SCHE Ed PV Pe 114° 60'	1	· ~ · · · · · · · · · · · · · · · · · ·	Retise, davin gray, must plastics, texture, would argunics Reture, davin gray, must wood, plastic, arganics 50000 2 11411

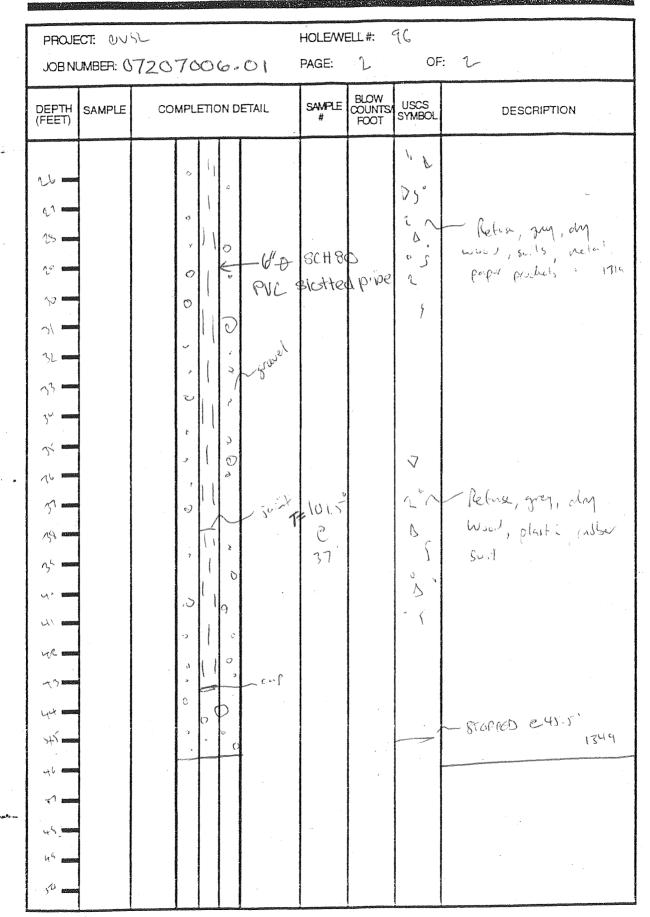
BORING LOG SCS ENGINEERS ENVIRONMENTAL CONSULTANTS HOLE #: PROJECT: 95× (GW29F Hub. 202.9) OVSL 2405 140th Ave NE Suite 107 PROJECT LOCATION: PUT Orchard, WA DIAMETER: 36" Bellevue, WA 98005 (ug' projected) 800-727-6393 JOB NUMBER: 07207006.01 fask-10 TOTAL DEPTH: FAX (206) 746-6747 GEOLOGIST/ENGINEER: S. TANAS DATE STARTED: 03/05/08 DRILLER: Terra DATE COMPLETED: 3/5/08 DRILLRIG IMT AF 130 SAMPLING DEVICE DRILLINGMETHOD: Barrel Auger OF: 2 PAGE: BLOW DEPTH SAMPLE USCS LAB COMPLETION DETAIL COUNTS / DESCRIPTION SYMBOL (ft) SAMPLE # FOOT Started dulling (15:39 0 -Meonembrane (2) 1. 2 bert 3 NHC 4 5 Si wood, biganics 6 7. sø 8. 9. 10 -D Shpefnic @ 121 B dork sray, moist, wood, D organics D organics 11. 12 . 13 -14 -15 -16 -17 -18. 19. 20 -21-22 -23 -24 -25 -

PROJECT: OVSL HOLE/WELL #: 03 OF: 7/ JOB NUMBER: 07207020.01 tack 10 PAGE: 2 BLOW COUNTS/ FOOT USCS SYMBOL DEPTH (FEET) COMPLETION DETAIL SAMPLE SAMPLE DESCRIPTION NO So dark gruy, moist. sine T=109° 12 3 27' 1N 1 of a word, organics. K 20 31 switched to dall augir @ 1627 (291) 32 33 switched to rore 44 auger @ 1634 X5 . 2,10 . Stypped dulling P われ 33 -16:42 34. 40 . Final Dupth: 291 41 42 back filled of 43 . scaled. Abandaned 44 45. 16. 42 46 цη 50 •

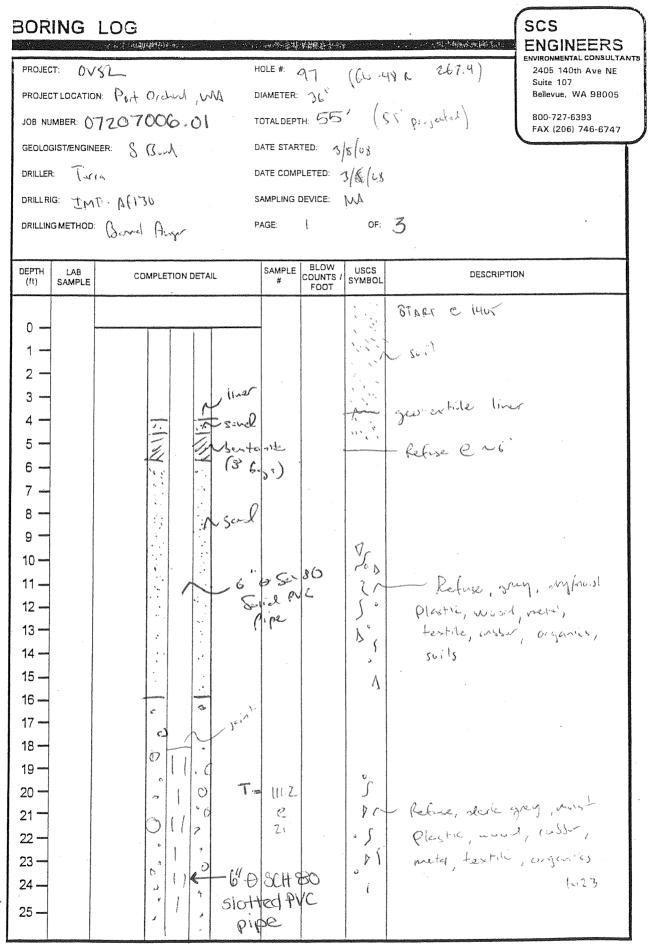






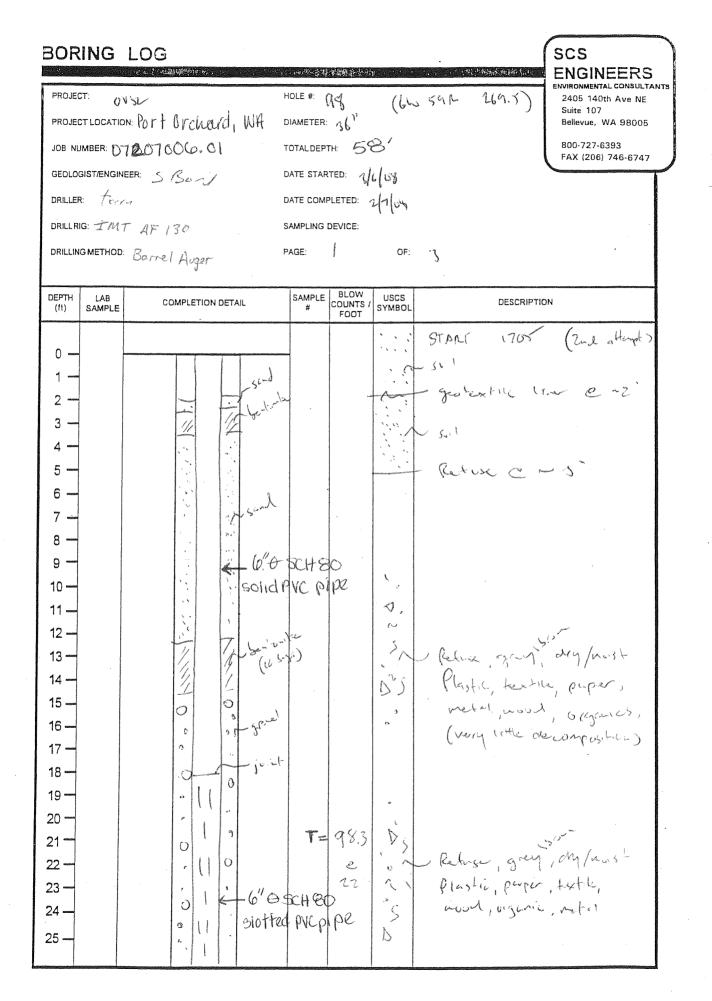


BORING LOG SCS an a the analytic the **ENGINEERS** See Stield Ball ENVIRONMENTAL CONSULTANTS PROJECT: OVSU HOLE #: 13 XX 1010 51 1 219.5 2405 140th Ave NE Suite 107 PROJECT LOCATION: Port Orchard WA 36 DIAMETER: Bellevue, WA 98005 TOTALDEPTH: ~ 15 JOB NUMBER: 07207066.01 800-727-6393 FAX (206) 746-6747 5/6-3 GEDLOGIST/ENGINEER: S. C. A DATE STARTED: DRILLER: DATE COMPLETED: . Terra DRILL RIG: SAMPLING DEVICE: IMT AF-130 NA DRILLING METHOD: PAGE: OF: Band Aner 1 LAB SAMPLE BLOW DEPTH USCS SYMBOL SAMPLE COMPLETION DETAIL COUNTS / DESCRIPTION (ft) # FOOT 0 -1 geotestile 22r 2. i. Ast .1 Se. 3 ·  $t_{e}$ atu. 4. 8 2015 5. Refine 86 6 . 7. Serve 8 9 -10 -11 -12 -- switched to anger e 13 -N (3) 14 -15 -Hit large concentration of heavy copess Unable to progress 16 -17 -18 -19-20 -21-22 -23 -24 -25 --

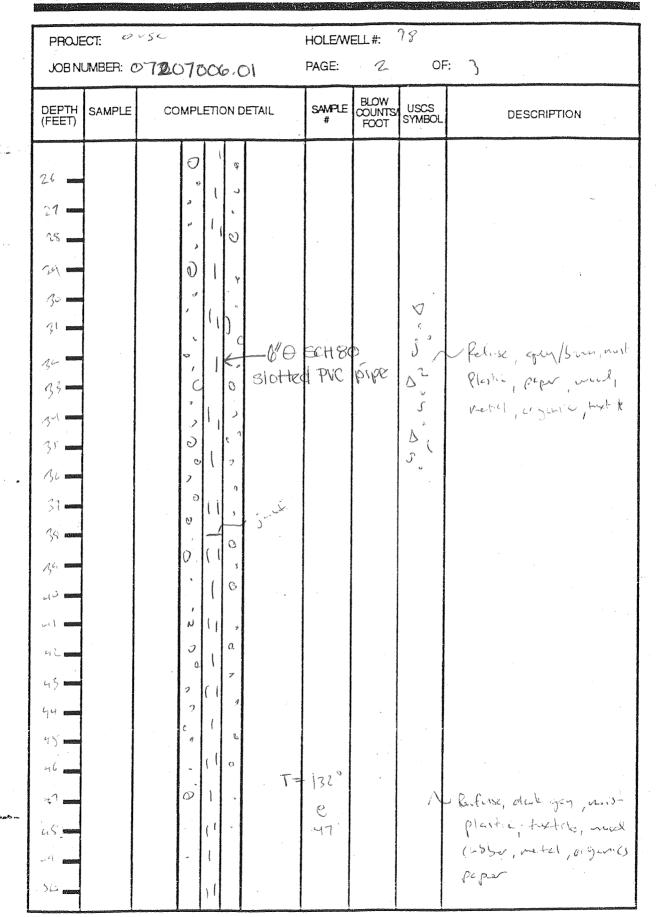


JOB NUMBER: C		HOLE/WI	2	97 OF	3
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
21 27 36 27 30 31 32 31 32 31 31 31 31 31 31 31 31 31 31 31 31 31	$\frac{1}{2}   \frac{1}{2}   \frac{1}$	3CH 8C PVL P Q 45'	ipe	Nous Colo	Refuse, daringrey, Mon plastics, mod, meta paper, organics 1444 wood, plastic yerg, m wood, plastic weral, grad organics 149

PROJECT: () V JOB NUMBER: ()		HOLE/WI PAGE:			÷ ζ
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
51 12 73 54 55 56 55 55	ollo grul	Scit 8 test P pape		2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	Platner, glack grap no.st Plactic, wood, testile, retail. Organics 2 STOPPER (255) 1516
(1) (1) (1) 70 71 72 73 74 74 74					



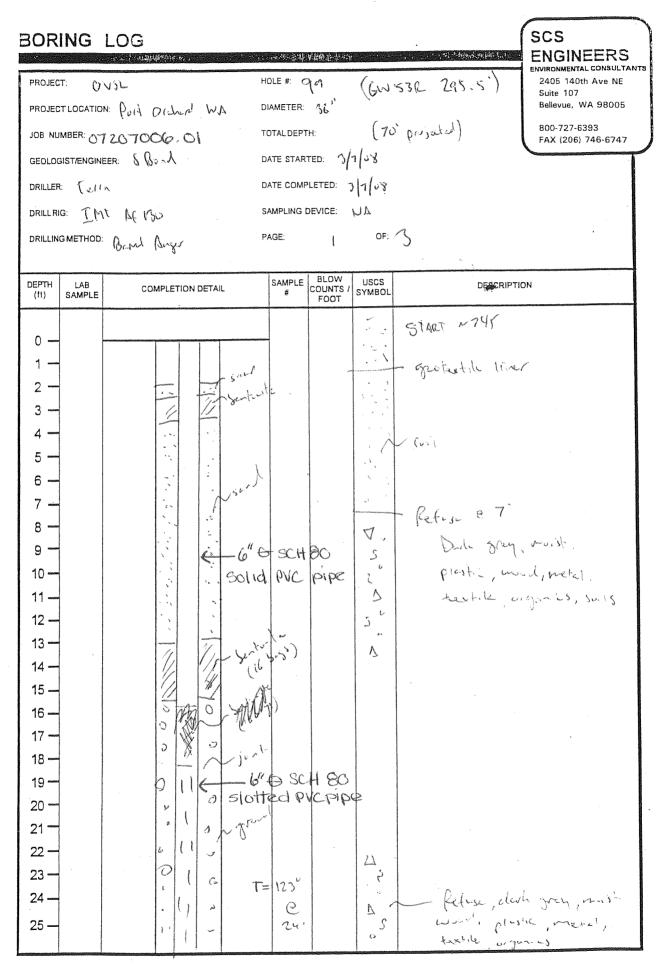
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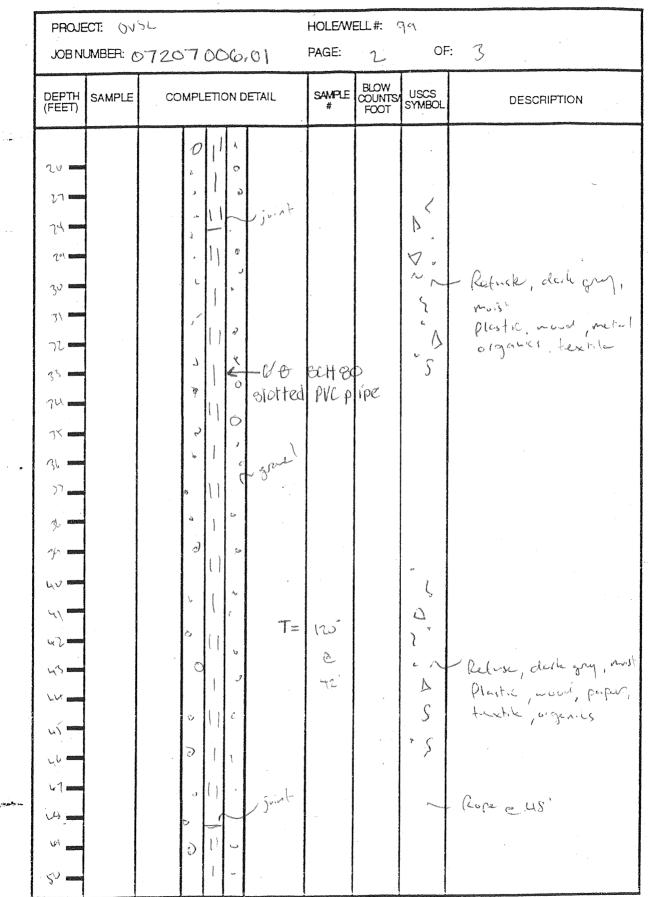
PROJECT: 0	36	HOLEWELL #:	94	
JOB NUMBER:	0.000072057006.01	PAGE: 3	OF	3
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE BLOW # BLOW COUNTS FOOT	USCS SYMBOL	DESCRIPTION
51 52 53 54 51 52 51 51 54 51 54 51 54 51 54 51 54 51 54 51 54 51 52 52		SCHEO PVC pipe		Refuse, sven, music closhe, techile, new, organics net. STOMEN & IS 18 WELL PLACED & NTIU 3/7/08

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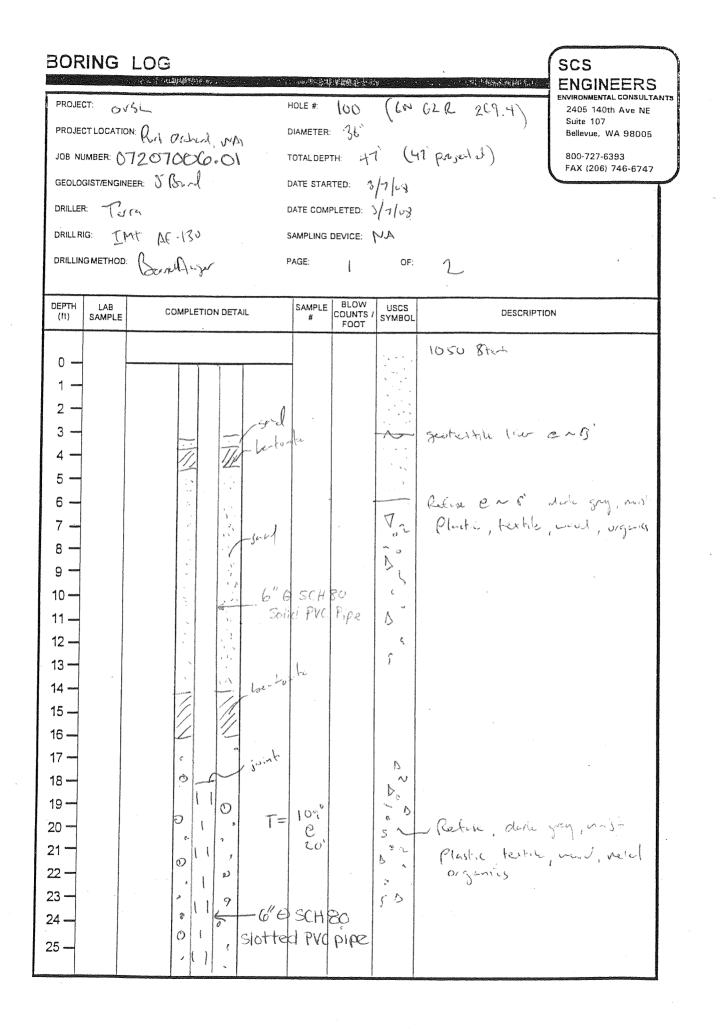


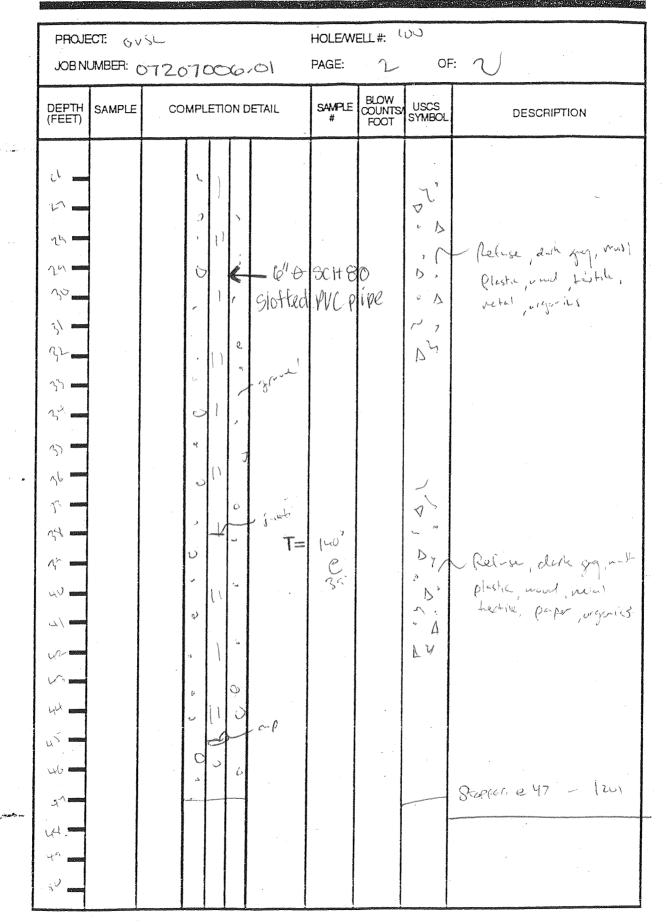
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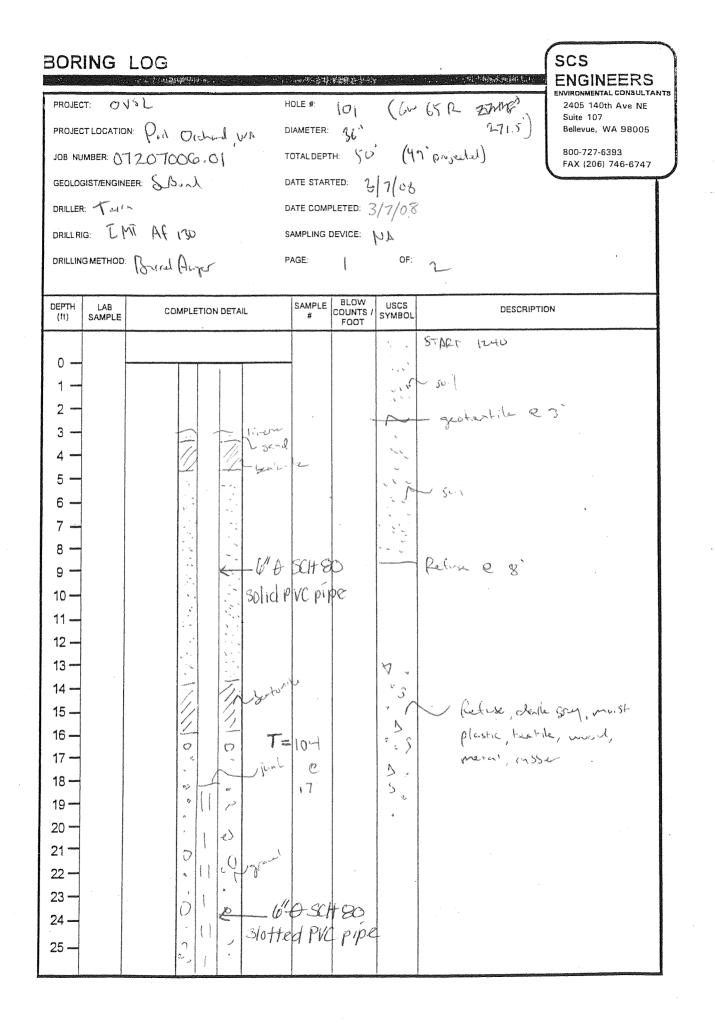


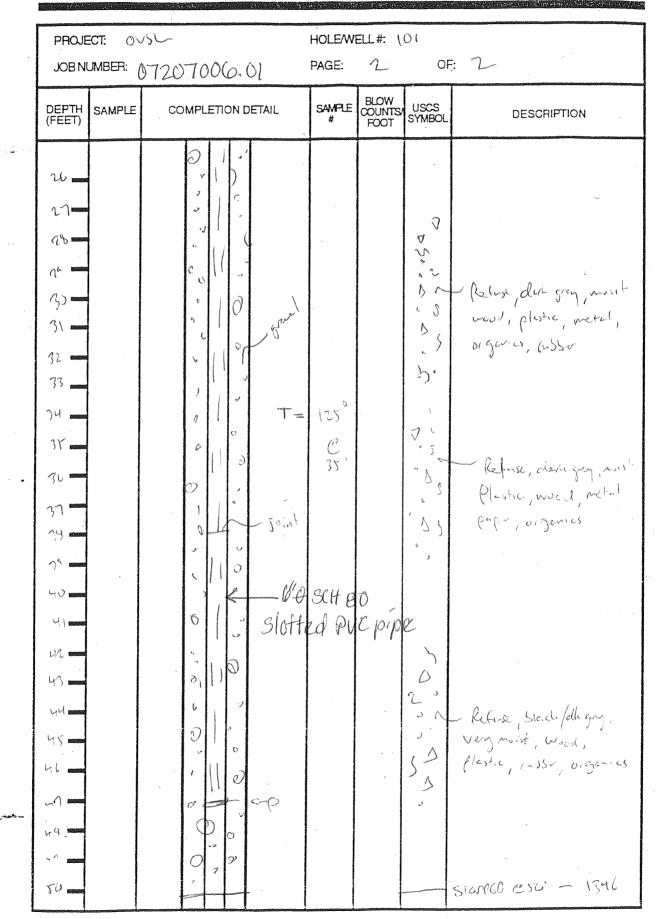
PROJECT: OUS		HOLE/W	EL#: "I	-1	
JOB NUMBER: C	7207006.01	PAGE:	S	OF	: 7
DEPTH (FEET) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
51 52 53 54 55 57 56 57 59 60 61 62 62 63 64 62 63 64 64 64 67 64 70 71 78 74 70 71 78 74 70 71 78 74 70 71 78 74 70 71 78 74 70 71 78 74 70 71 70 71 71 72 74 70 71 71 72 74 71 72 74	$ \begin{array}{c} \left  \right  \\ \left  \right  $	SCH E PVC pi	pe	A ~ , L A ~ , A ~ , A ~ ,	r suitched to screen auger 255, 934 - suitched to blanshel build a 56 - Refuse, derk gray no Plastic, much freshle, argunes. - Refuse durk gray. Mo Plastic, much freshle, argunes. - Suitcher and freshle, metal, organis. - suitcher 270 - 102

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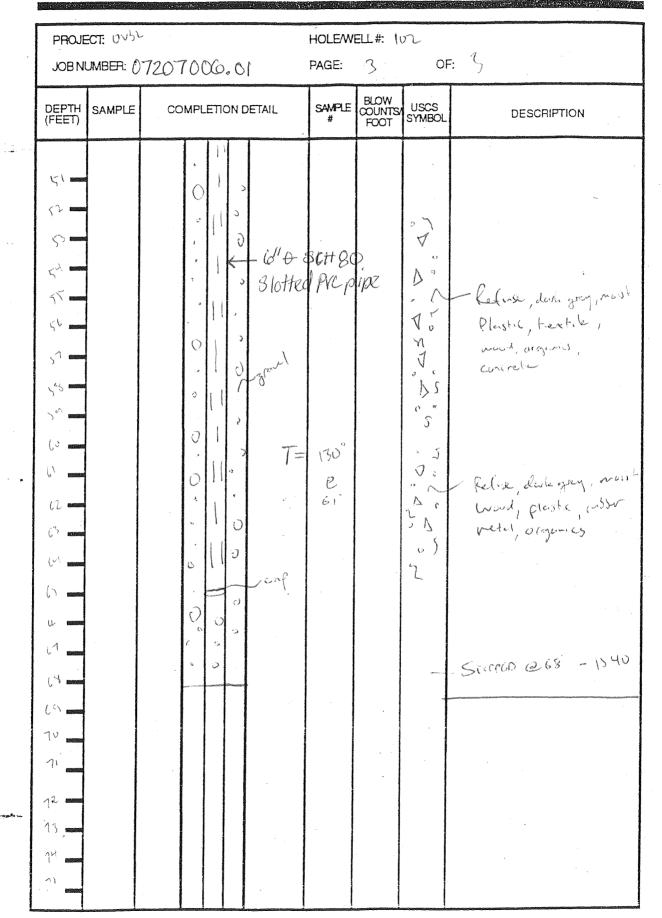


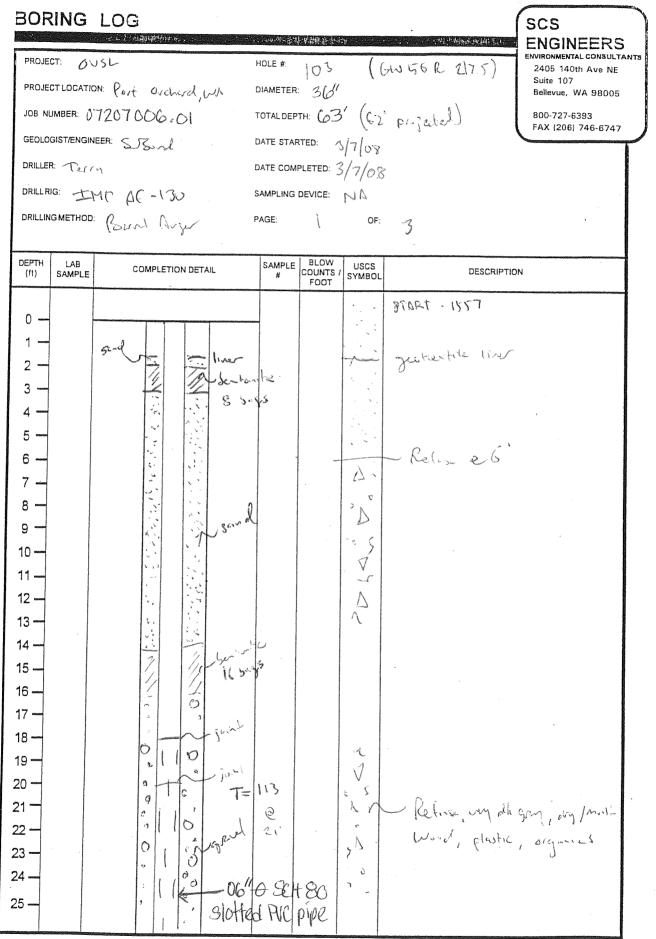


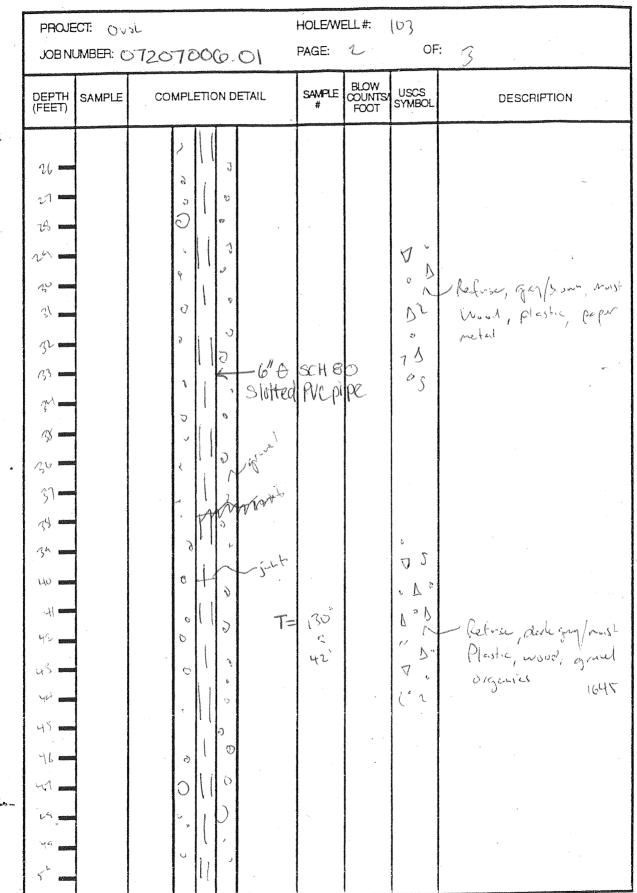
PROJECT: SU PROJECT LOCATION: JOB NUMBER: OT GEOLOGIST/ENGINEEF DRILLER: TELEFO	207000-01 207000-01 207000-01 AC 130	HOLE #: DIAMETER: TOTAL DEP <sup>1</sup> DATE STAR DATE COMP SAMPLING I PAGE:	TH: G8 ITH: G8 ITED: PLETED:	(G- 5' (G- 5/2/03	i Proj	292. N)	SCS ENGINEERS 2405 140th Ave NE Suite 107 Bellevue, WA 98005 800-727-6393 FAX (206) 746-6747
DEPTH LAB (11) SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / FOOT	USCS SYMBOL		DESCRIPTI	ON
0	301 7	(- 1°)	pipe SCH E Ted Pi		- s. 1 gress - s. " - Ref	use 27°	rey, ory Imizt

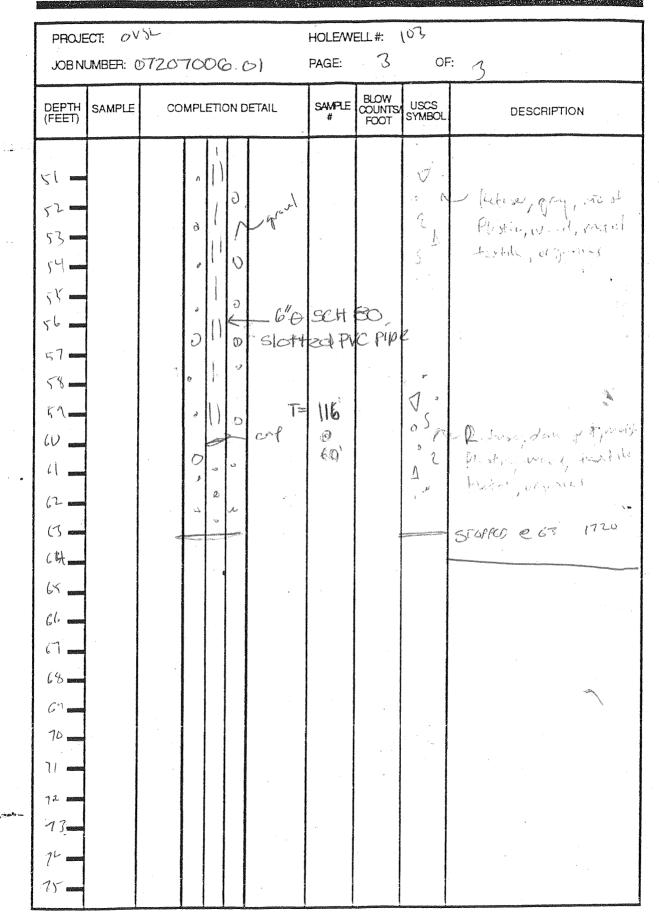
PROJECT: (	yvsL-	HOLE/W	ELL#: 11	υL	
JOB NUMBER:	07207006-01	PAGE:	2	OF	: 5
DEPTH (FEET) SAMPL	E COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/ FOOT	USCS SYMBOL	DESCRIPTION
21 27 27 30 21 30	D°D°, T=	121° 25		· 2 A. 20 ~ 7 5	- Return , deile grey, must Word plusting, netral, bregennics
3°3 7°° 3°1 3°1 3°1 3°1 3°1 3°1 3°1 3°1 3°1	allo be be be be be be be be be be be be be	- SCH & DPVC	io pipe	2020	Chefrice, derhi grup, m Unoved, plustic, tactile Organics
$   \frac{16}{41} $ $   \frac{41}{52} $ $   \frac{16}{44} $	$\frac{1}{2} \left  \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	(27° C 42'		2055	- Refuse, duch gray, must Word, plastic, textile suils, o, go-ics
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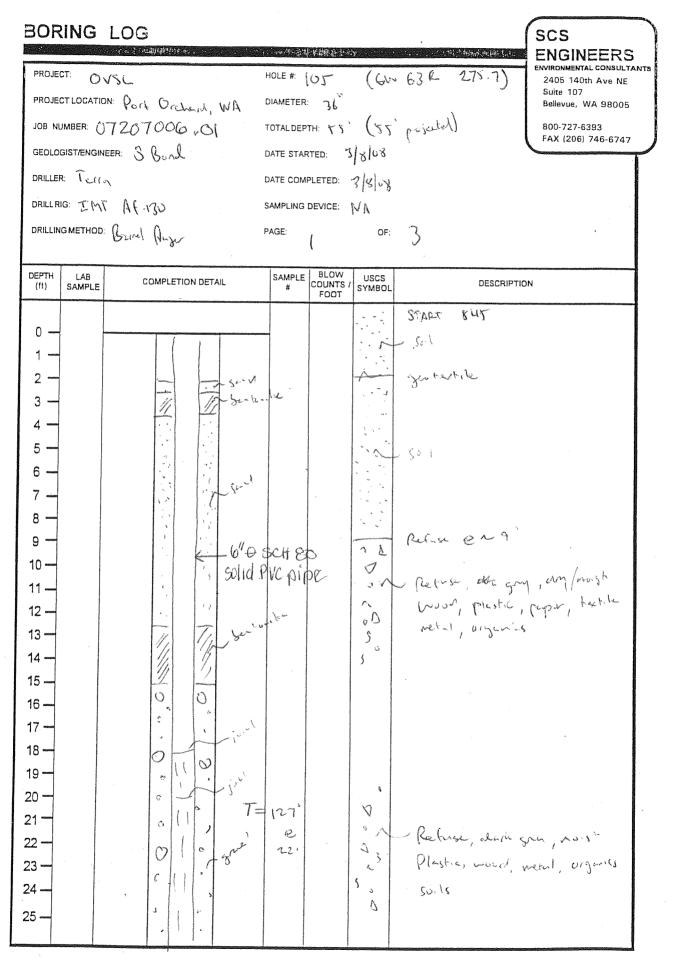
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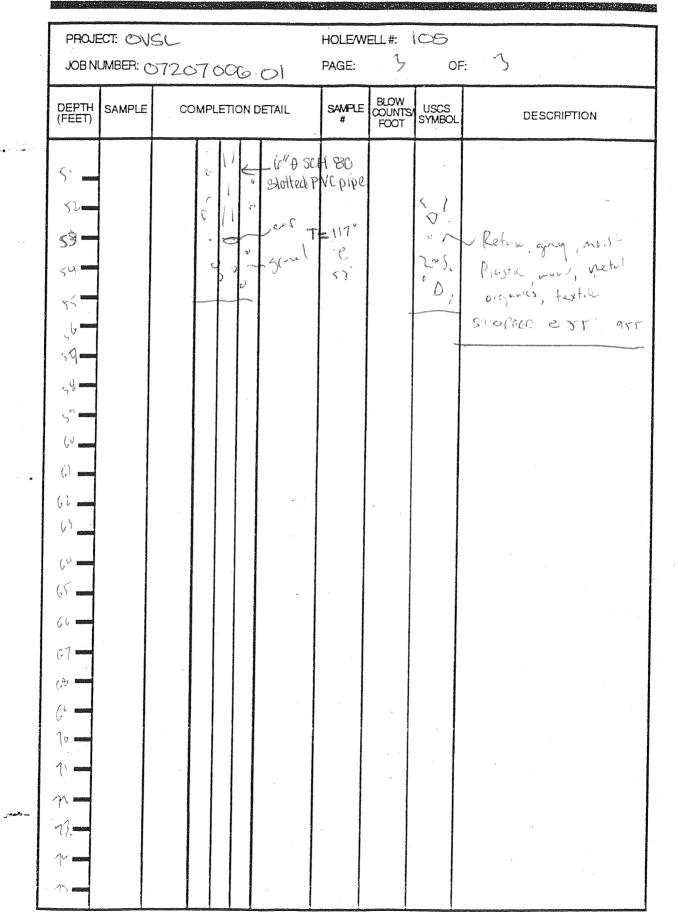
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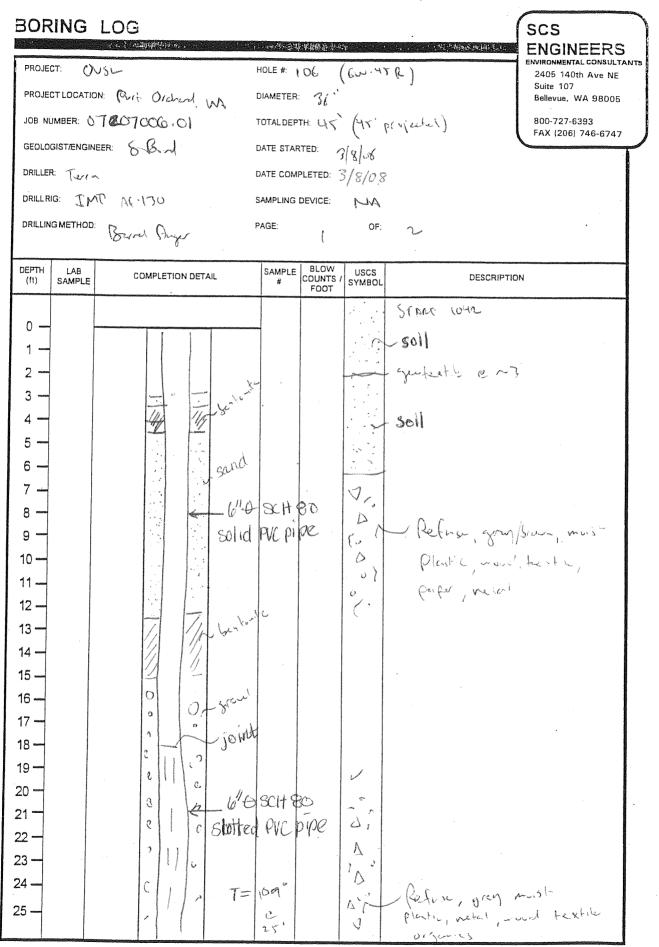
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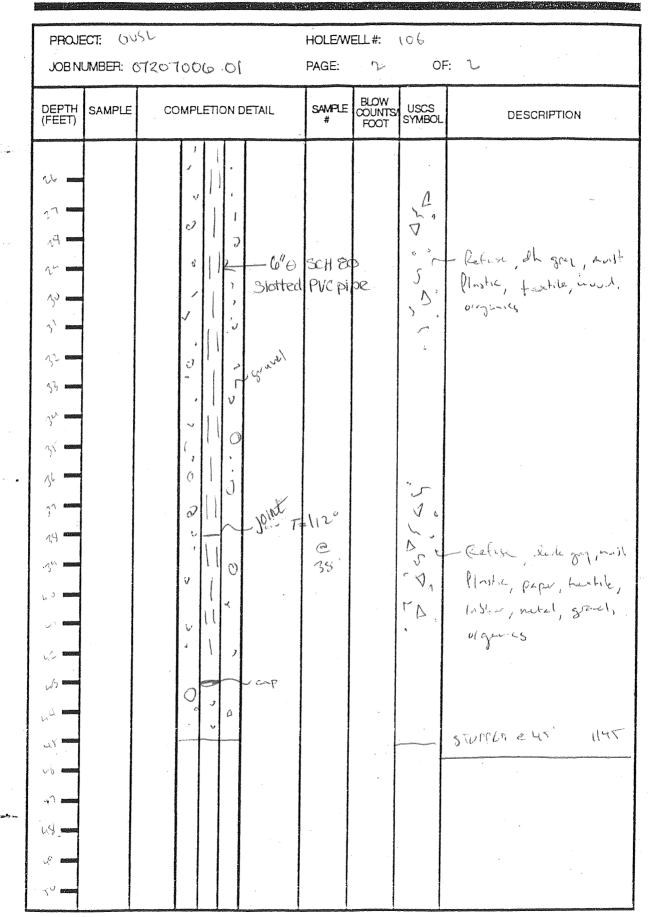


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#### APPENDIX B

Construction Inspection Forms

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			HDPE PIPE	BOO	T CO	<b>NSTRUCT</b>	<b>BOOT CONSTRUCTION FORM</b>							
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LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

Panel Orientation:	:uo	Well No.	GW 10	19 R	HL+	Roll No.	N/A		Deploy 3/16/08	201	Ξ	Boot Location	tion
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Seam Welding	ling							Seam Le	Seam Leak Testing				
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#### **Repair Welding**

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**Repair Leak Testing** 

#### Pass/ Fail Tech Test Type Date **Mach Settings** Mach No. Tech Repair No. Amb Temp Time Date

G:\07207006.01\Task 10 - CQA\CI-HDPE Pipe Boot Construction.doc A No 242 INSPECTOR'S SIGNATURE

DATE 3/16/08 5 3/17/08

#### LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

Panel Orientation:	tation:	Well No.	GW 4	40 R	SL#	Roll No.	N/A		Deploy 3/16/08	No	Boot Location	cation
<b>N</b>		Smi	Smooth	rext	extured	Lot No.	N/A		Deploy 14:16 Time	5	Location Ma	See Well Location Map
Seam Welding	elding							Seam Le	Seam Leak Testing			
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	Date	Time	Amb Temp	Repair No.	Tech	Mach No.	Mach Settings	Date	Test Type	Tech	Pass/ Fail

DATE 3/16/08 5 3/17/08

CONSTRUCTION INSPECTION FORM	PROJECT NO. 0/20/006.01	SCS ENGINEERS
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LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

Panel Orientation:	tation:	Well No. $G(\omega)$	GW 39	39R	# 76	Roll No.	N/A		Deploy 3/16/03	33	Boot Location	cation
2		Smt	Smooth	Texti	Textured	Lot No.	N/A		Deploy 14:10		See Well Location Map	Vell n Map
Seam Welding	elding							Seam Le	Seam Leak Testing			
Date	Time	Amb Temp	Loc.*	Tech	Mach No.	No.	Mach Settings	Date	Distance Tested and Loc.*	Test Type	Tech	Pass/ Fail
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#### Repair Welding

Repair Leak Testing

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DATE 3/16/08 & 3/17/08

CONSTRUCTION INSPECTION FORM	<sup>2</sup> ROJECT NO. 07207006.01
CONSTR	PROJECT

LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

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Seam Welding	/elding						Seam Le	Seam Leak Testing				
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Repair Leak Testing

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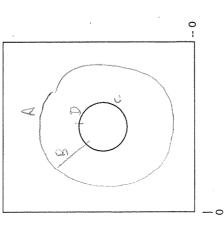
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17/08 DATE

LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

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LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

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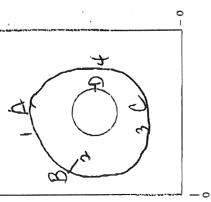
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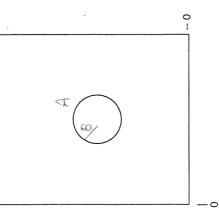
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Repair Leak Testing 

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CONSTRUCTION INSPECTION FORM PROJECT NO. 07207006.01 SCS ENGINEERS
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CONSTRUCTION INSPECTION FORM PROJECT NO. 07207006.01 SCS ENGINEERS

### HDPE PIPE BOOT CONSTRUCTION FORM

LANDFILL GAS WELL INSTALLATION CQA **OLYMPIC VIEW SANITARY LANDFILL** 

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3/16/08 DATE

LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

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LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

See Well Location Map **Boot Location** 

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LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

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Repair Leak Testing

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3/18/63 Date 3/15/08

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CONSTRUCTION INSPECTION FORM PROJECT NO. 07207006.01 S C S E N G I N E E R S
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LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

Boot Location

Deploy 3//5/08

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Roll No.

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SCS ENGINEERS

# HDPE PIPE BOOT CONSTRUCTION FORM

LANDFILL GAS WELL INSTALLATION CQA OLYMPIC VIEW SANITARY LANDFILL

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