

Memorandum

To	Christa Colouzis, Washington State Department of Ecology	Page	1
CC	Kathy Bahnick, Port of Seattle; Jalyn Buckley, Port of Seattle; Joanna Florer, Port of Seattle; Elizabeth Black, Port of Seattle; Paul Kalina, AECOM; Brian Knox, K&L Gates; Janet Knox, Mott MacDonald; Alla Skaskevych, Mott MacDonald; Susan McGroddy, Windward Environmental		
Subject	T-91 Groundwater Monitoring Well Decommissioning		
From	Jamalyn Green, AECOM Technical Services, Inc.		
Date	March 14, 2025		

1.0 INTRODUCTION

On behalf of the Port of Seattle (Port), AECOM Technical Services, Inc. (AECOM) has prepared this memorandum as a record of groundwater monitoring well decommissioning at Terminal 91 (T-91) (**Figure 1**). In accordance with the Washington State Department of Ecology’s (Ecology’s) approval memorandum dated October 11, 2024 (Ecology, 2024; Attachment A), 47 inactive groundwater monitoring wells were successfully decommissioned in December 2024.

2.0 BACKGROUND

T-91 is located at 2001 West Garfield Street, Seattle, Washington and includes approximately 216 acres (Figure 1). The tank farm affected area (TFAA) occupies approximately 17 acres in the central portion of T-91. The TFAA includes the Tank Farm Lease Parcel (TFLP), which is a contiguous parcel approximately four acres in size located immediately north of the Magnolia Bridge. The TFAA is flat and paved or covered with buildings.

The TFLP is located at the north end of the TFAA. The environmental history of the TFLP includes the bulk petroleum tank farm present from the 1920s through 2005, and the dangerous waste treatment and storage operations conducted from 1980 through 1995. The aboveground portion of the tank farm, including the tanks, containment walls, and other aboveground piping and equipment, was demolished and removed in 2005 as part of an interim remedial action (Roth Consulting 2005). The final cleanup was performed in 2013-2015 and is described further in the construction completion report (PES 2017).

The geology, hydrogeology, and nature and extent of contamination are informed by investigations conducted at T-91 since 1988. The results of these investigations are detailed in the Remedial Investigation Summary Report (Roth Consulting 2007) and Final Cleanup Action Plan (Ecology 2010).

3.0 DECOMMISSIONED WELLS

In December 2023, the Port and AECOM visited T-91 to take inventory of the terminal’s wells. During this visit, 47 inactive monitoring wells were identified and assessed. 40 wells had corresponding Ecology well logs and were approved for chip-in-place decommissioning (Ecology 2024a). Ecology well logs are provided in Attachment B, and decommissioning methods and notes for consultant well IDs and corresponding Ecology well IDs (e.g., tag numbers) are presented in Table 1. Three wells without Ecology

well logs were decommissioned via overdrilling. Ecology approved a variance to decommission the remaining four wells without Ecology well logs via chip-in-place due to access restrictions (Ecology, 2024b; Attachment C). Monitoring well SHFLL-W7C was not decommissioned during this event because we were unable to locate it after removing brush in that area. The location was not further investigated due to the steep slope and limited working space.

3.1 *Chip-in-Place*

For chip-in-place decommissioning, AECOM recommended filling the casing with bentonite chips per WAC 173-160-460(2)(a). AECOM used this method for decommissioning 44 of the 47 wells. Well monuments were removed and the top 18 inches of void space were backfilled with concrete per Port requirements.

3.2 *Overdrilling*

For decommissioning by overdrilling, AECOM recommended removing the casing per WAC 173-160-460(1)(a) or (b). AECOM used this method to decommission three wells (SHFLL-W3, SHFLL-W4, and SHFLL-W5). Well monuments were removed and the top 18 inches of void space were backfilled with concrete per Port requirements.

4.0 REFERENCES

AECOM, 2024. T-91 Well Decommissioning Request. August 20, 2024.

AGI Technologies, 1996. Summary Report, Underground Storage Tank Assessment, Port of Seattle Terminal 91. July 30, 1996.

Aspect Consulting, 2012. Summary Report for Additional Assessment Activities, Pier 91, Terminal 91 – Seattle, Washington. August 22, 2012.

Hart-Crowser, 1988. Data Report, Monitoring Well Installation and Physical Characterization of Berm-Fill Material, Terminal 91 Port of Seattle, Washington. October 1988.

Kennedy/Jenks Consultants, 2011. Investigation Summary Report, Piers 90 and 91, November 17, 2011.

Landau Associates, 2016. Closure Report, Former Incinerator, Underground Storage Tank Area, Terminal 91 Discrete Unit B.38, Seattle, Washington. March 16, 2016.

PES et al. 2017. Construction Report, Terminal 91 Tank Farm Affected Area Cleanup Action, Seattle, Washington. October 2017.

Pinnacle Geosciences, 2011. Summary Report, Soil and Ground Water Assessment, West-Central Building 136 Area and Locomotive Fueling Area Investigation, Port of Seattle Terminal 91. December 28, 2011.

Roth Consulting. 2005. Independent Interim Remedial Action Report Terminal 91 Tank Farm Demolition 2005. October 18.

Roth Consulting. 2007. Remedial Investigation Summary Report for the Terminal 91 Tank Farm Site in Seattle, Washington. Prepared for Port of Seattle. August 2007.

Washington Department of Ecology [Ecology]. 2010. Final Cleanup Action Plan, Port of Seattle Terminal 91 Site, Seattle, Washington. December 15.

Washington State Department of Ecology [Ecology]. 2024. RE: Well Variance Request – Terminal 91 Port of Seattle. July 25.

Table

Table 1 Summary of Decommissioned Wells

Figures

Figure 1 Project Area Vicinity Map

Figure 2 Terminal 91 North End Wells Decommissioned

Figure 3 Terminal 91 South End Wells Decommissioned

Attachments

Attachment A Well Decommissioning Approval Letter from Ecology dated August 20, 2024

Attachment B Well Logs

Attachment C Variance Request Approval Letter from Ecology dated July 26, 2024

Table

Table 1 - Summary of Decommissioned Wells

Consultant Well ID	ECY Well ID	Method	Notes
UT_MW152-1	---	Chip-In-Place	No Ecology well ID was identified during decommissioning or listed on the Ecology well log.
UT_MW152-2	---	Chip-In-Place	No Ecology well ID was identified during decommissioning or listed on the Ecology well log.
UT_MW152-3	---	Chip-In-Place	No Ecology well ID was identified during decommissioning or listed on the Ecology well log.
UT_MW152-4	---	Chip-In-Place	No Ecology well ID was identified during decommissioning or listed on the Ecology well log.
UT_MW152-5	---	Chip-In-Place	No Ecology well ID was identified during decommissioning or listed on the Ecology well log.
UT_MW152-6	---	Chip-In-Place	No Ecology well ID was identified during decommissioning or listed on the Ecology well log.
UT_MW152-7	---	Chip-In-Place	No Ecology well ID was identified during decommissioning or listed on the Ecology well log.
B.22-MW-01-SB-03	BHE956	Chip-In-Place	
B.30-MW-01	BHE955	Chip-In-Place	
B.33-MW-01	BHE952	Chip-In-Place	
B.33-MW-02	BHE953	Chip-In-Place	
B.33-MW-03	BHE954	Chip-In-Place	
B.34-MW-01	BHE951	Chip-In-Place	
MW-B57	BCM882	Chip-In-Place	
MW-B57A	BHS 318	Chip-In-Place	
MW-B64	BCM884	Chip-In-Place	
MW-B67	BCM885	Chip-In-Place	
MW-B68	BCM886	Chip-In-Place	
MW-B69	BCM887	Chip-In-Place	

Table 1 - Summary of Decommissioned Wells

Consultant Well ID	ECY Well ID	Method	Notes
MW-B70	BCM888	Chip-In-Place	
MW-B72	BCM889	Chip-In-Place	
MW-B75	BCM890	Chip-In-Place	
MW-B78	BCM891	Chip-In-Place	
P91_MW01	BHB012	Chip-In-Place	
P91_MW02	BHB014	Chip-In-Place	
P91_MW03	BHB013	Chip-In-Place	
P91_MW04	BHB018	Chip-In-Place	
P91_MW05	BHB015	Chip-In-Place	
P91_MW06	BHB016	Chip-In-Place	
P91_MW07	BHB017	Chip-In-Place	Ecology well ID was identified as BHB-017 in the field, but the Ecology well log is missing from the Ecology database. All of the other Ecology well logs from the 2011 Kennedy/Jenks investigation were included in the Ecology database.
P91_MW08	BHB019	Chip-In-Place	
P91_MW09	BHA205	Chip-In-Place	
P91_MW10	BHA206	Chip-In-Place	
P91_MW11	BHA207	Chip-In-Place	
P91_MW12	BHA208	Chip-In-Place	
P91_MW13	BHA209	Chip-In-Place	
DUB38-3	BID-905	Chip-In-Place	
DUB38-4	BID-903	Chip-In-Place	

Table 1 - Summary of Decommissioned Wells			
Consultant Well ID	ECY Well ID	Method	Notes
DUB38-5	BID-906	Chip-In-Place	
DUB38-6	BID-904	Chip-In-Place	
SHFLL_W2	---	Over-drill	
SHFLL_W3	---	Over-drill	
SHFLL_W4A	---	Chip-In-Place ¹	
SHFLL_W4B	---	Chip-In-Place ¹	
SHFLL_W4C	---	Over-drill	
SHFLL_W7A	---	Chip-In-Place ¹	
SHFLL_W7B	---	Chip-In-Place ¹	
SHFLL_W7C	---	Not applicable	Monitoring well was assumed to be located behind a locked fence during site reconnaissance, but the well was not observed during the decommissioning field work following brush removal. Did not investigate further due to steep slope.

Notes:

ECY = Washington State Department of Ecology

1. Well variance request approved by the Washington State Department of Ecology's Water Resources Program letter dated July 26, 2024.

Figures



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



AECOM Oakland CA 2/18/2025 USEP smh berjesson BMT/K/ Port of Seattle/Port of Seattle 19A191 Wells Decommissioned - North.mxd



AECOM, Oakland CA 2/19/2025 USEE\sean.burgeson\A\Port of Seattle\Port of Seattle - 191\191 Wells Decommissioned - South.mxd

Source: Esri, Maxar, Earthstar Geographics, IGN, and the GIS User Community

Legend

- Decommissioned Monitoring Wells
- Port Property Boundary

N

0 200

Feet

FIGURE 3
 Terminal 91 South End Wells Decommissioned
 February 2025

Attachments

**Attachment A – Well Decommissioning Approval Letter from
Ecology dated August 20, 2024**



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Region Office
PO Box 330316, Shoreline, WA 98133-9716 • 206-594-0000

October 11, 2024

Joanna Florer
Port of Seattle, Pier 69
2711 Alaskan Way
Email: florer.j@portseattle.org

RE: August 20, 2024, GW well decommissioning memo prepared by AECOM Technical Services.

Dear Joanna:

Ecology reviewed the Port's proposal to decommission 48 groundwater monitoring wells on the Terminal 91 property.

Your plan to decommission these 48 wells by the methods indicated in the memo prepared by AECOM Technical Services is approved.

Sincerely,

Christa Colouzis, PE
Acting Section Manager, NWRO HWTR
Washington State Department of Ecology

Ecc:
Kathy Bahnick, bahnick.k@portseattle.org
Jamalyn Green, Jamalyn.green@aecom.com



Attachment B – Well Logs

ENTERED

UT_MW152-1

HOLT DRILLING, INC. 25/3/23 Q

RECEIVED

MAY 20 1996

DEPT. OF ECOLOGY

Resource Protection Well Report

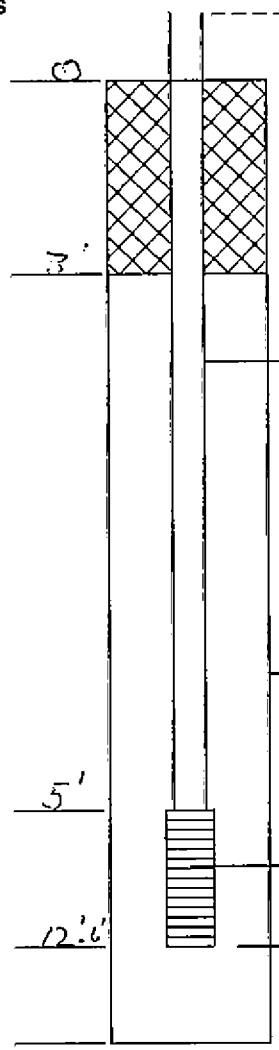
Project Name Pier 91 (Seattle)
Well Identification # MW-1; MW-2; MW-3; MW-4
Drilling Method 4" HSA
Driller John Bennett
License # 2200

Date 5-7-96
County King, SW 1/4 SE 1/4
Section 23 T. 25N R. 3E
Start Card ~~91726~~ R 18234
Consulting Firm AGI

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Soil Log
Depth of Components in Feet

0
3' rock rock debris
7' Dark gray coarse to med sand
12'6" Dark gray med to fine sand w/ H2O bearing



Stick up Flush on Monument Casing

Type of Surface Seal Bentonite chips & concrete
Amount 3'

ID of Riser Pipe 2"
Type of Riser Pipe Schedule 40 PVC
Amount 5'

Type of Connection Flush Thread

Type of Backfill around Riser 10-20 silica sand
Amount 2'

Diameter of Borehole 9"

Screen Size or Type 7.6" .20 slot 2"

Type of Filter Material 10-20 silica sand
Amount 7.6"

Remarks:

Signature John Bennett

ENTERED

UT_MW152-2

HOLT DRILLING, INC. 25/3/23 Q

RECEIVED

MAY 20 1996

DEPT. OF ECOLOGY

Resource Protection Well Report

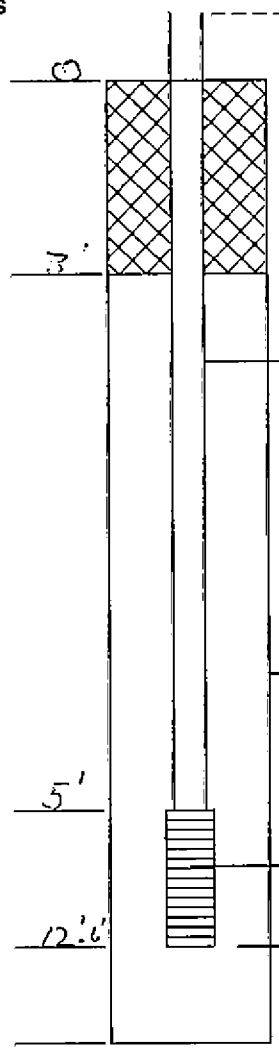
Project Name Pier 91 (Seattle)
 Well Identification # MW-1; MW-2; MW-3; MW-4
 Drilling Method 4" HSA
 Driller John Bennett
 License # 2200

Date 5-7-96
 County King, SW 1/4 SE 1/4
 Section 23 T. 25N R. 3E
 Start Card ~~91726~~ R 18234
 Consulting Firm AGI

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Soil Log
 Depth of Components in Feet

0
 3' rock rock debris
 7' Dark gray coarse to med sand
 12'6" Dark gray med to fine sand w/ H2O bearing



Stick up Flush on Monument Casing

Type of Surface Seal Bentonite chips & concrete
Amount 3'

ID of Riser Pipe 2"
Type of Riser Pipe Schedule 40 PVC
Amount 5'

Type of Connection Flush Thread

Type of Backfill around Riser 10-20 silica sand
Amount 2'

Diameter of Borehole 9"

Screen Size or Type 7.6" .20 slot 2"

Type of Filter Material 10-20 silica sand
Amount 7.6"

Remarks:

Signature John Bennett

ENTERED

UT_MW152-3

HOLT DRILLING, INC. 25/3/23 Q

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MAY 20 1996

DEPT. OF ECOLOGY

Resource Protection Well Report

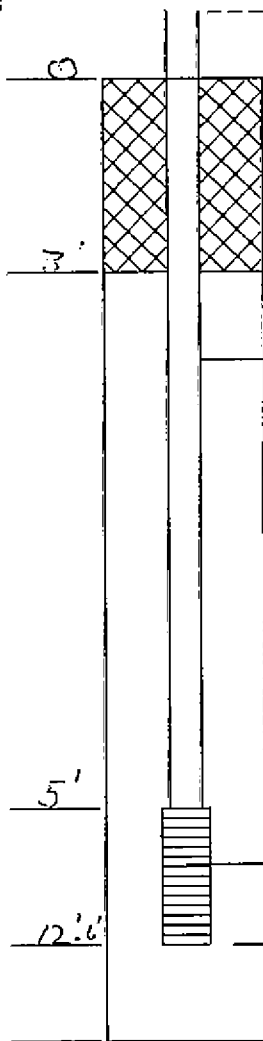
Project Name Pier 91 (Seattle)
 Well Identification # MW-1; MW-2; MW-3; MW-4
 Drilling Method 4" HSA
 Driller John Bennett
 License # 2200

Date 5-7-96
 County King, SW 1/4 SE 1/4
 Section 23 T. 25N R. 3E
 Start Card ~~91726~~ R 18234
 Consulting Firm AGI

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Soil Log
 Depth of Components in Feet

0
 3' rock rock debris
 7' Dark gray coarse to med sand
 12'6" Dark gray med to fine sand -ly H2O bearing



Stick up Flush on Monument Casing

Type of Surface Seal Bentonite chips & concrete
 Amount 3'

ID of Riser Pipe 2"
 Type of Riser Pipe Schedule 40 PVC
 Amount 5'

Type of Connection Flush Thread

Type of Backfill around Riser 10-20 silica sand
 Amount 2'

Diameter of Borehole 9"

Screen Size or Type 7.6" .20 slot 2"

Type of Filter Material 10-20 silica sand
 Amount 7.6"

Remarks:

Signature John Bennett

ENTERED

UT_MW152-4

HOLT DRILLING, INC. 25/3/23 Q

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MAY 20 1996

DEPT. OF ECOLOGY

Resource Protection Well Report

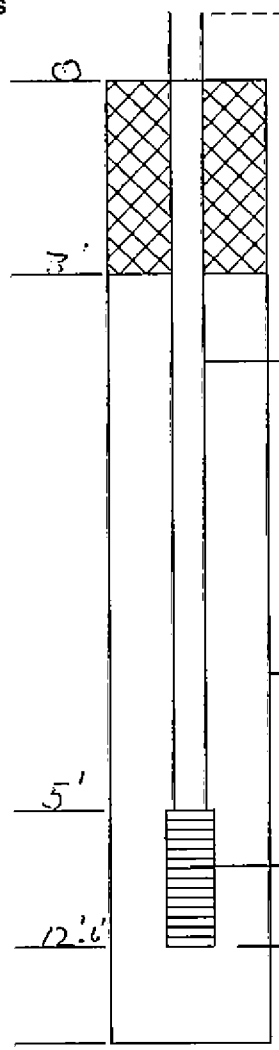
Project Name Pier 91 (Seattle)
Well Identification # MW-1; MW-2; MW-3; MW-4
Drilling Method 4" HSA
Driller John Bennett
License # 2200

Date 5-7-96
County King, SW 1/4 SE 1/4
Section 23 T. 25N R. 3E
Start Card ~~91726~~ R 18234
Consulting Firm AGI

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Soil Log
Depth of Components in Feet

0
3' rock rock debris
7' Dark gray coarse to med sand
12'6" Dark gray med to fine sand w/ H2O bearing



Stick up Flush on Monument Casing

Type of Surface Seal Bentonite chips & concrete
Amount 3'

ID of Riser Pipe 2"
Type of Riser Pipe Schedule 40 PVC
Amount 5'

Type of Connection Flush Thread

Type of Backfill around Riser 10-20 silica sand
Amount 2'

Diameter of Borehole 9"

Screen Size or Type 7-6" 20 slot 2"

Type of Filter Material 10-20 silica sand
Amount 7-6"

Remarks:

Signature John Bennett

ENTERED

HOLT DRILLING, INC.

25/3/23 Q

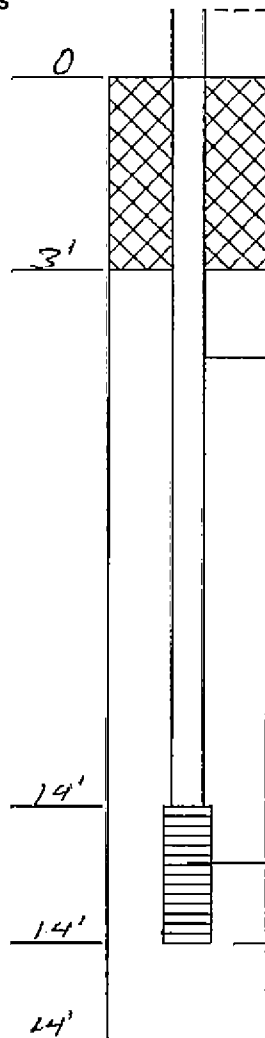
Resource Protection Well Report

Project Name Pier 91
Well Identification # MW-152-5; MW-152-6
Drilling Method 4" HSA
Driller John Bennett
License # 2200

Date 10-15-96
County King, S61 1/4 SE 1/4
Section 23 T. 25N R. 3E
Start Card R 77830
Consulting Firm AGI

Soil Log
Depth of Components in Feet

0
Asphalt 4"
Base crushed 1'
7-8' brown silty sand 8'
Blue gray silty sand 14'
2-3' sand 14'
14'



Stick up Flush on Monument Casing

Type of Surface Seal Bentonite chips + concrete
Amount 3'

ID of Riser Pipe 2"
Type of Riser Pipe Schedule 40 PVC
Amount 4'

Type of Connection Flush

Type of Backfill around Riser 10-20 silica sand
Amount 1'

Diameter of Borehole 9"

Screen Size or Type Schedule 40 PVC .20 slot

Type of Filter Material 10-20 silica sand
Amount 12'

Remarks:

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DEPT. OF ECOLOGY

Signature John Bennett

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

ENTERED

HOLT DRILLING, INC.

25/3/23 Q

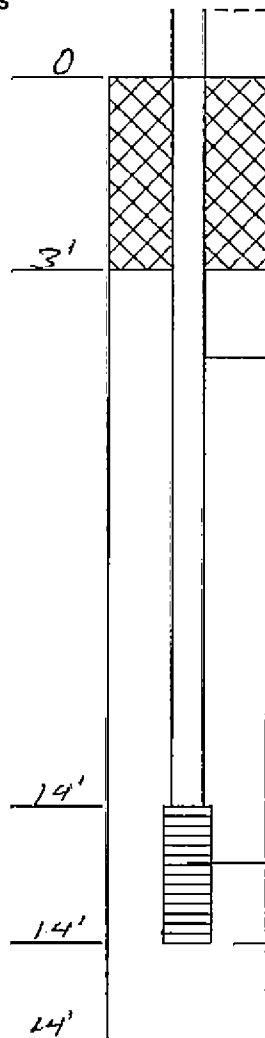
Resource Protection Well Report

Project Name Pier 91
Well Identification # MW-152-5; MW-152-6
Drilling Method 4" HSA
Driller John Bennett
License # 2200

Date 10-15-96
County King, S41 1/4 SE 1/4
Section 23 T. 25N R. 3E
Start Card R 77830
Consulting Firm AGI

Soil Log
Depth of Components in Feet

0
Asphalt 4"
Base crushed 1'
7-8' brown silty sand 8'
Blue gray silty sand 14'
2-3' brown 24'



Stick up Flush on Monument Casing

Type of Surface Seal Bentonite chips + concrete
Amount 3'

ID of Riser Pipe 2"
Type of Riser Pipe Schedule 40 PVC
Amount 4'

Type of Connection Flush

Type of Backfill around Riser 10-20 silica sand
Amount 1'

Diameter of Borehole 9"

Screen Size or Type Schedule 40 PVC .20 slot

Type of Filter Material 10-20 silica sand
Amount 12'

Remarks:

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NOV 13 1996

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Signature John Bennett

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

ENTERED

UT_MW152-7

HOLT DRILLING, INC.

Resource Protection Well Report

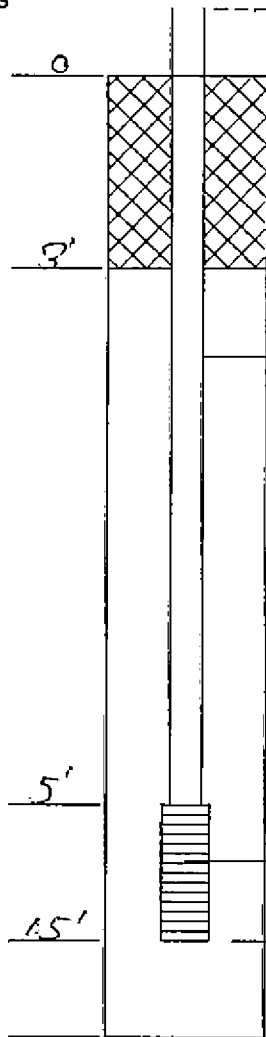
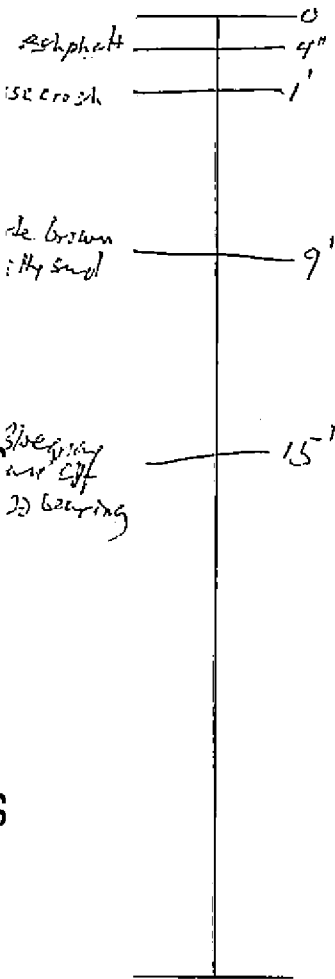
25/3/23 Q

Project Name Pipe 91
 Well Identification # MW-152-7
 Drilling Method 4" HCS
 Driller John Bennett
 License # 2200

Date 10-15-96
 County King, S61 1/4 SE 1/4
 Section 23 T. 25N R. 3E
 Start Card 1227830
 Consulting Firm AGI

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Soil Log
 Depth of Components in Feet



Stick up Flush on Monument Casing

Type of Surface Seal Bentonite Chips/concrete
Amount 3'

ID of Riser Pipe 2"
Type of Riser Pipe Sched 40 PVC
Amount 5'

Type of Connection Flush

Type of Backfill around Riser 10-20 silica sand
Amount 2'

Diameter of Borehole 9"

Screen Size or Type Schedule 40 PVC 20 S/ft

Type of Filter Material 10-20 silica sand
Amount 1.5'

Remarks:

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NOV 13 1996

DEPT. OF ECOLOGY

Signature [Handwritten Signature]

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

456479

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE07205

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Aspect

Property Owner Port of Seattle
Site Address 2001 Garfield St
City Seattle County King

Unique Ecology Well ID Tag No. BHE 956

Location 1/4 NW 1/4 NE Sec 26 TWN 25N Range 3E or WWM

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

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

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

Tax Parcel No. _____

Driller Trainee Name (Print) Kasey Goble
Driller/Trainee Signature [Signature]
Driller/Trainee License No. 2501

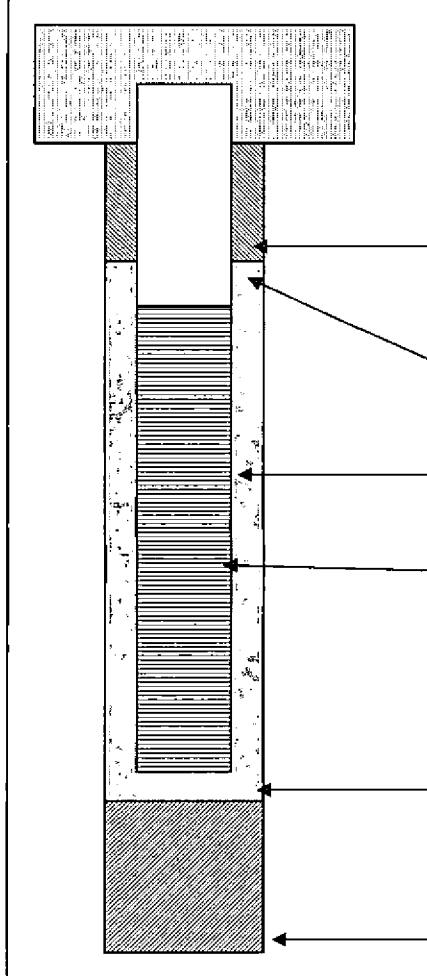
Cased or Uncased Diameter 2" Static Level 10'

Work/Decommission Start Date 6/20/12

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

Work/Decommission End Date 6/20/12

Construction/Design Well Data W12-363 Formation Description



Concrete Surface Seal Depth	<u>2</u> FT
Blank Casing (dia x dep)	<u>3/4" x 5'</u>
Material	<u>PVC</u>
Backfill	<u>2</u> FT
Type	<u>—</u>
Seal	<u>BENTONITE CHIPS</u>
Material	<u>—</u>
Gravel Pack	<u>11</u> FT
Material	<u>2 1/2 SAND</u>
Screen (dia x dep)	<u>3/4" x 10'</u>
Slot Size	<u>010</u>
Material	<u>PVC PRE-PACK</u>
Well Depth	<u>15</u> FT
Backfill	<u>—</u>
Material	<u>—</u>
Total Hole Depth	<u>15</u> FT

0 - 5	FT
Fill GRAVEL	
0 5 - 15	FT
GREY SAND w/ GRAVEL	
0 -	FT

RECEIVED
JUL 27 2012
DEPT OF ECOLOGY
NW/RO. WED

Scale 1" = _____

Page _____ of _____

456478

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE07205

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Property Owner Port of Seattle

Site Address 2001 Garfield St

City Seattle County King

Consulting Firm Aspect

Unique Ecology Well ID Tag No. BHE 955

Location 1/4 NW 1/4 NE Sec 26 TWN 25N Range 3E or WWM

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

Lat/Long (S, L, still Required) Lat Deg x Lat Min/Sec x
Long Deg x Long Min/Sec x

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

Tax Parcel No. _____

Driller Trainee Name (Print) Kasey Goble

Cased or Uncased Diameter 2" Static Level 10'

Driller/Trainee Signature [Signature]

Work/Decommission Start Date 6/20/12

Driller/Trainee License No. 2501

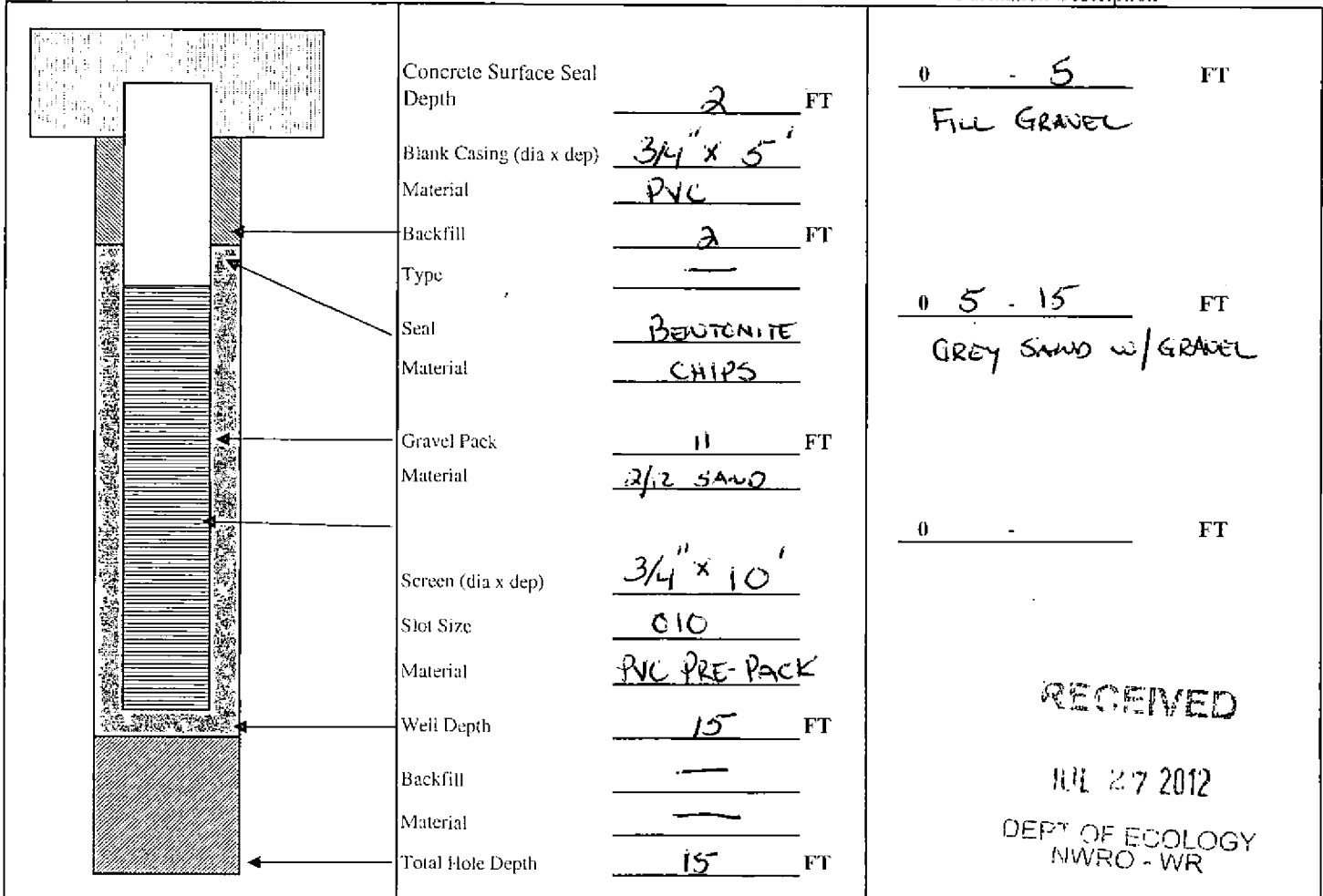
Work/Decommission End Date 6/20/12

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

Construction/Design

Well Data W12-363

Formation Description



RECEIVED
JUL 27 2012
DEPT OF ECOLOGY
NWRO - WR

Scale 1" = _____

Page _____ of _____

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

456475

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE07205

Construction/Decommission

Construction
 Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Aspect

Property Owner Port of Seattle
 Site Address 2001 Garfield St
 City Seattle County King

Unique Ecology Well ID Tag No. BHE 952

Location 1/4 NW 1/4 NE Sec 26 TWN 25N Range 3E or WWM EWM

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

Lat/Long (s.t.r still Required) Lat Deg x Lat Min/Sec x
 Long Deg x Long Min/Sec x

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

Tax Parcel No. _____

Driller Trainee Name (Print) Kasey Goble
 Driller/Trainee Signature [Signature]
 Driller/Trainee License No. 2501

Cased or Uncased Diameter 2" Static Level 10'

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

Work/Decommission Start Date 6/20/12

Work/Decommission End Date 6/20/12

Construction/Design

Well Data W12-363

Formation Description

	Concrete Surface Seal Depth	<u>2</u> FT		<u>0 - 5</u> FT
	Blank Casing (dia x dep)	<u>3/4" x 5'</u>		<u>Fill GRAVEL</u>
	Material	<u>PVC</u>		
	Backfill	<u>2</u> FT		
	Type	<u>—</u>		
	Seal	<u>BEUTONITE</u>		<u>0 5 - 15</u> FT
	Material	<u>CHIPS</u>		<u>GREY SAND w/ GRAVEL</u>
	Gravel Pack	<u>11</u> FT		
	Material	<u>2/12 SAND</u>		
	Screen (dia x dep)	<u>3/4" x 10'</u>		<u>0 -</u> FT
Slot Size	<u>010</u>			
Material	<u>PVC PRE-PACK</u>			
Well Depth	<u>15</u> FT			
Backfill	<u>—</u>			
Material	<u>—</u>			
Total Hole Depth	<u>15</u> FT			

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The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

456476

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE07205

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring

Property Owner Port of Seattle
 Site Address 2001 Garfield St
 City Seattle County King

Consulting Firm Aspect

Unique Ecology Well ID Tag No. BHE 953

Location 1/4 NW 1/4 NE Sec 26 TWN 25N Range 3E or EWM WWM

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

Lat/Long (s.t.r still Required) Lat Deg x Lat Min/Sec x
 Long Deg x Long Min/Sec x

Driller Trainee Name (Print) Kasey Goble
 Driller/Trainee Signature [Signature]
 Driller/Trainee License No. 2501

Tax Parcel No. _____

Cased or Uncased Diameter 2" Static Level 10'

Work/Decommission Start Date 6/20/12

Work/Decommission End Date 6/20/12

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

Construction/Design Well Data W12-363 Formation Description

	Concrete Surface Seal Depth	<u>2</u> FT	<u>0 - 5</u> FT
	Blank Casing (dia x dep)	<u>3/4" x 5'</u>	<u>Fill GRAVEL</u>
	Material	<u>PVC</u>	
	Backfill	<u>2</u> FT	
	Type	<u>—</u>	
	Seal	<u>BENTONITE</u>	<u>0 5 - 15</u> FT
	Material	<u>CHIPS</u>	<u>GREY SAND w/ GRAVEL</u>
	Gravel Pack	<u>11</u> FT	
	Material	<u>2/2 SAND</u>	
	Screen (dia x dep)	<u>3/4" x 10'</u>	<u>0 -</u> FT
Slot Size	<u>010</u>		
Material	<u>PVC PRE-PACK</u>		
Well Depth	<u>15</u> FT		
Backfill	<u>—</u>		
Material	<u>—</u>		
Total Hole Depth	<u>15</u> FT		

RECEIVED
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The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

456477

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE07205

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Aspect

Property Owner Port of Seattle
 Site Address 2001 Garfield St
 City Seattle County King

Unique Ecology Well ID Tag No. BHE 954

Location 1/4 NW 1/4 NE Sec 26 TWN 25N Range 3E or WWM

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

Lat/Long (s.t.r still Required) Lat Deg x Lat Min/Sec x
 Long Deg x Long Min/Sec x

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

Tax Parcel No. _____

Driller Trainee Name (Print) Kasey Goble

Cased or Uncased Diameter 2" Static Level 10'

Driller/Trainee Signature [Signature]

Work/Decommission Start Date 6/20/12

Driller/Trainee License No. 2501

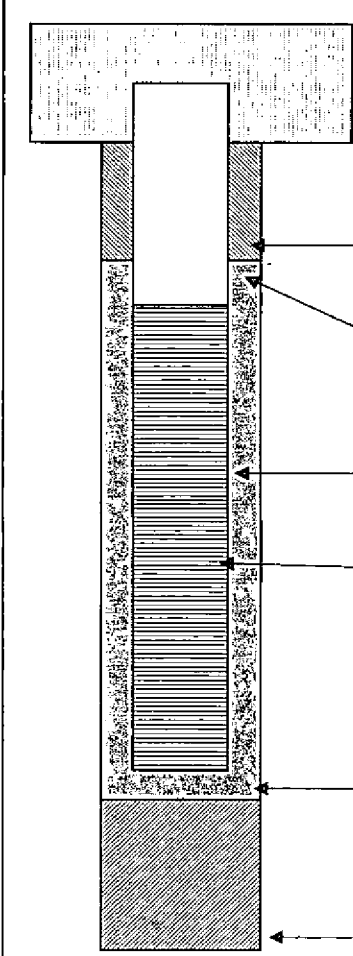
Work/Decommission End Date 6/20/12

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

Construction/Design

Well Data W12-363

Formation Description



Concrete Surface Seal Depth 2 FT
 Blank Casing (dia x dep) 3/4" x 5'
 Material PVC
 Backfill 2 FT
 Type —
 Seal BEUTONITE
 Material CHIPS
 Gravel Pack 11 FT
 Material 2 1/2 SAND
 Screen (dia x dep) 3/4" x 10'
 Slot Size 010
 Material PVC PRE-PACK
 Well Depth 15 FT
 Backfill —
 Material —
 Total Hole Depth 15 FT

0 - 5 FT
FILL GRAVEL
0 5 - 15 FT
GREY SAND w/ GRAVEL
0 - FT

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 NWRO - WR

456474

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE07205

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring

Property Owner Port of Seattle
Site Address 2001 Garfield St
City Seattle County King

Consulting Firm Aspect

Unique Ecology Well ID Tag No. BHE 951

Location 1/4 NW 1/4 NE Sec 26 TWN 25N Range 3E or WWM

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

Lat/Long (s.t.r still Required) Lat Deg x Lat Min/Sec x
Long Deg x Long Min/Sec x

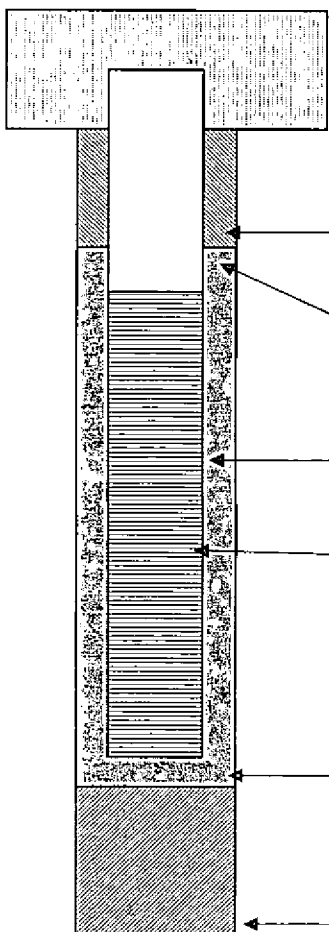
Driller Trainee Name (Print) Kasey Goble
Driller/Trainee Signature _____
Driller/Trainee License No. 2501

Tax Parcel No. _____
Cased or Uncased Diameter 2" Static Level 10'

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

Work/Decommission Start Date 6/20/12
Work/Decommission End Date 6/20/12

Construction/Design Well Data W12-363 Formation Description



Concrete Surface Seal Depth	<u>2</u> FT	<u>0 - 5</u> FT
Blank Casing (dia x dep)	<u>3/4" x 5'</u>	<u>Fill GRAVEL</u>
Material	<u>PVC</u>	
Backfill	<u>2</u> FT	
Type	<u>—</u>	
Seal	<u>BENTONITE CHIPS</u>	<u>0 5 - 15</u> FT
Material	<u>—</u>	<u>GREY SAND w/ GRAVEL</u>
Gravel Pack	<u>11</u> FT	
Material	<u>2/12 SAND</u>	
Screen (dia x dep)	<u>3/4" x 10'</u>	<u>0 -</u> FT
Slot Size	<u>010</u>	
Material	<u>PVC PRE-PACK</u>	
Well Depth	<u>15</u> FT	
Backfill	<u>—</u>	
Material	<u>—</u>	
Total Hole Depth	<u>15</u> FT	

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The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

MW-B57

25-38-26B

RESOURCE PROTECTION WELL REPORT

CURRENT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. RE05321

Construction/Decommission
 Construction 404050
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring

Consulting Firm Pinnacle GeoSciences

Property Owner Port of Seattle
Site Address W. Garfield & 16th Ave. W
City Seattle County King

Unique Ecology Well ID Tag No. BCM 882

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

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

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

Driller Trainee Name (Print) Kasey Goble
Driller/Trainee Signature [Signature]
Driller/Trainee License No. 2501

Tax Parcel No. _____
Cased or Uncased Diameter 3 1/4" Static Level 5'

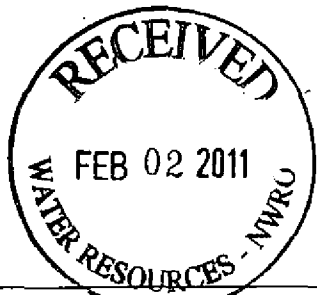
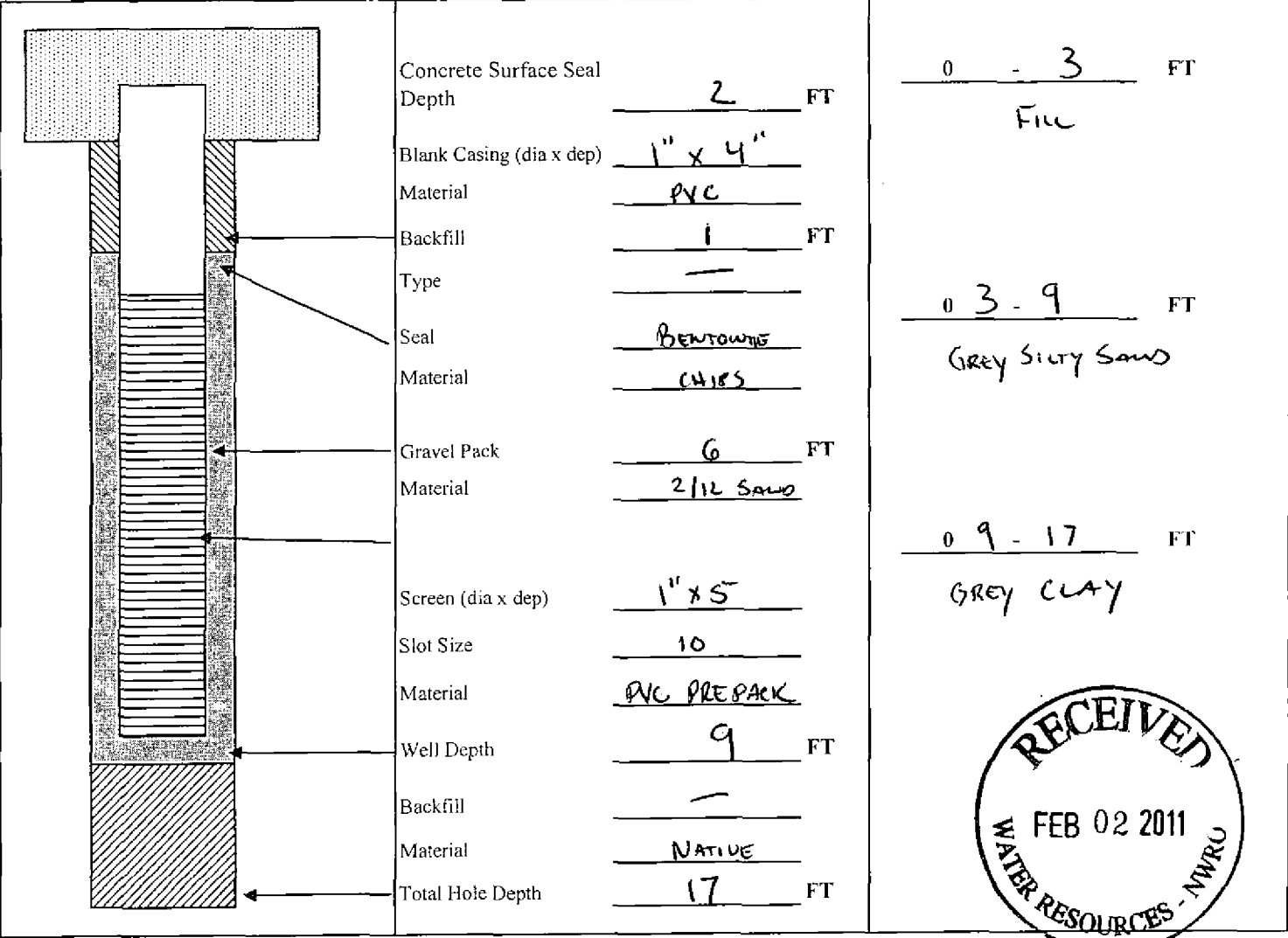
If trainee, licensed driller's Signature and License No. _____

Work/Decommission Start Date 01/03/11
Work/Decommission End Date 1/5/11

Construction/Design

W11-004

Formation Description



Scale 1" = _____

Page _____ of _____

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

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

471711

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE07579

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Landau

Property Owner Port of Seattle
 Site Address 2001 W Garfield St
 City Seattle County King

Unique Ecology Well ID _____
 Tag No. BHS 318

Location 1/4 NW 1/4 NE Sec 26 25N 25N R 3E or WWM

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

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

Driller Trainee Name (Print) Elijah Floyd
 Driller/Trainee Signature Eli Floyd
 Driller/Trainee License No. 2842

Tax Parcel No. _____

Cased or Uncased Diameter 3 1/4" Static Level 7'

Work/Decommission Start Date 9-24-2012

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

Work/Decommission End Date 9-24-2012

Construction/Design

Well Data W12-592

Formation Description

	Concrete Surface Seal Depth	<u>2'</u> FT	<u>0 - 7'</u> FT Silts, sands 30%, med gravels, light brown, compact, Dry <u>0 - 10'</u> FT Sands, 60% silt, wet, Dark brown, loose. <u>0</u> FT
	Blank Casing (dia x dep)	<u>1" x 5'</u>	
	Material	<u>PVC</u>	
	Backfill	<u>N/A</u> FT	
	Type	<u>N/A</u>	
	Seal	<u>1'</u> FT	
	Material	<u>Bentonite chips</u>	
	Gravel Pack	<u>7'</u> FT	
	Material	<u>2/12 sand</u>	
	Screen (dia x dep)	<u>1" x 5'</u>	
Slot Size	<u>.010</u>		
Material	<u>PVC Pac Pack</u>		
Well Depth	<u>10'</u> FT		
Backfill	<u>N/A</u>		
Material	<u>N/A</u>		
Total Hole Depth	<u>10'</u> FT		

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Scale 1" = _____

Page _____ of _____

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

MW-B64

25-38-76B

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE05321

Construction/Decommission 404052
 Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring
 Port of Seattle

Consulting Firm Pinnacle GeoSciences

Property Owner _____
 Site Address W. Garfield & 16th Ave. W
 City Seattle County King

Unique Ecology Well ID Tag No. BCM 884

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

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

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

Driller Trainee Name (Print) Kasey Goble
 Driller/Trainee Signature _____
 Driller/Trainee License No. 2501

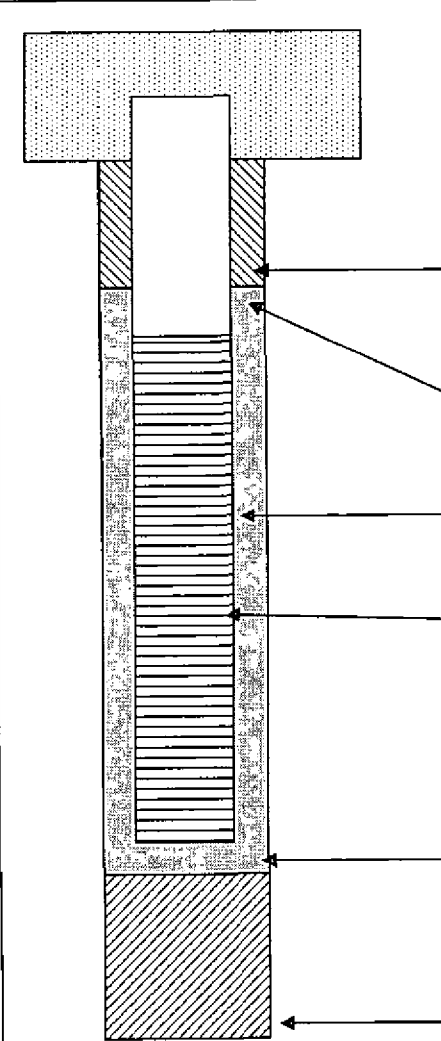
Tax Parcel No. _____

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

Cased or Uncased Diameter 3 1/4" Static Level 6'

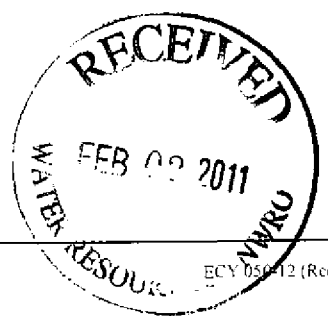
Work/Decommission Start Date 01/03/11

Work/Decommission End Date 1/5/11

Construction/Design	W11-004	Formation Description
	Concrete Surface Seal Depth <u>2</u> FT	<u>0 - 3</u> FT Fill
	Blank Casing (dia x dep) <u>1" x 4'</u> Material <u>PVC</u>	
	Backfill <u>1</u> FT Type <u>-</u>	<u>0 3 - 9</u> FT GREY SILTY SAND
	Seal <u>BENTONITE</u> Material <u>CHIPS</u>	
	Gravel Pack <u>6</u> FT Material <u>2/12 SAND</u>	<u>0 9 - 13</u> FT GREY CLAY
	Screen (dia x dep) <u>1" x 5'</u> Slot Size <u>10</u> Material <u>PVC PRE PACK</u>	
	Well Depth <u>9</u> FT	
	Backfill <u>-</u> Material <u>NATIVE</u>	
	Total Hole Depth <u>13</u> FT	

Scale 1" = _____

Page _____ of _____



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL NETWORK

MW-B67

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

25-3E-26B

Notice of Intent No.

RE05321

Construction/Decommission

404053

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number

Type of Well

Resource Protection

Geotechnical Soil Boring

Property Owner

Port of Seattle

Site Address

W. Garfield & 16th Ave. W

City

Seattle

County

King

Consulting Firm

Pinnacle GeoSciences

EWM

Unique Ecology Well ID

Tag No. BCM 885

Location

1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

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

Lat/Long (s,t,r)

Lat Deg x

Lat Min/Sec x

still Required)

Long Deg x

Long Min/Sec x

Tax Parcel No.

Driller Trainee Name (Print)

Kasey Goble

Driller/Trainee Signature

[Signature]

Cased or Uncased Diameter

3 1/4"

Static Level 6'

Driller/Trainee License No.

2501

Work/Decommission Start Date

01/03/11

If trainee, licensed driller's Signature and License No.

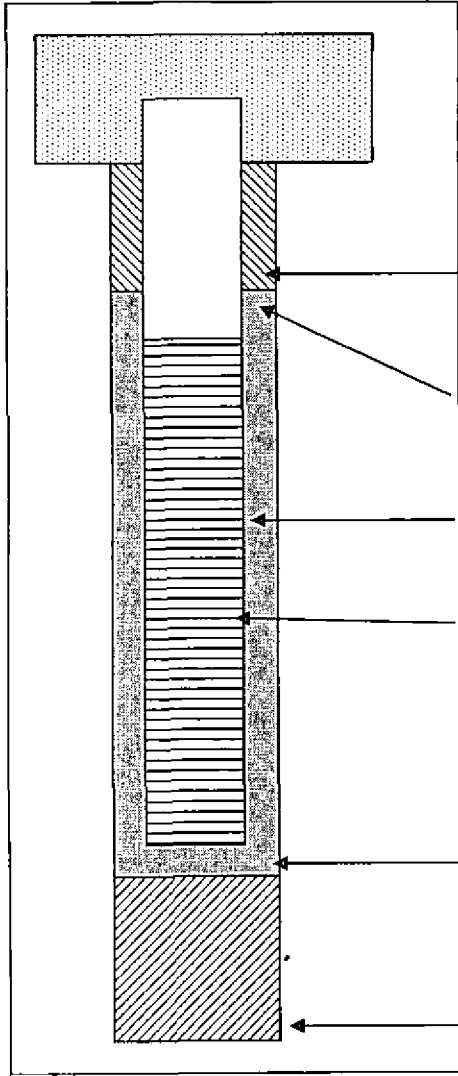
Work/Decommission End Date

1/5/11

Construction/Design

W11-004

Formation Description



Concrete Surface Seal Depth	2	FT
Blank Casing (dia x dep)	1" x 4"	
Material	PVC	
Backfill	1	FT
Type	-	
Seal	BENTONITE	
Material	CHIPS	
Gravel Pack	6	FT
Material	2/12 SAND	
Screen (dia x dep)	1" x 5'	
Slot Size	10	
Material	PVC PRE PACK	
Well Depth	9	FT
Backfill	-	
Material	NATIVE	
Total Hole Depth	13	FT

0 - 3	FT
Fill	
0 3 - 9	FT
GREY SILTY SAND	
0 9 - 13	FT
GREY CLAY	



Scale 1" = _____

Page _____ of _____

ECY 058-12 (Rec-v 2/01)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL REPORT

MW-B68

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

25-3B-26B

Notice of Intent No.

RE05321

Construction/Decommission

404054

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number

Type of Well

Resource Protection

Geotechnical Soil Boring

Property Owner

Port of Seattle

Site Address

W. Garfield & 16th Ave. W

City

Seattle

County

King

Consulting Firm

Pinnacle GeoSciences

EWM

Unique Ecology Well ID

Tag No. BCM 886

Location

1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

Lat/Long (s,r still Required)

Lat Deg x Lat Min/Sec x Long Deg x Long Min/Sec x

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

Tax Parcel No.

Driller Trainee Name (Print)

Kasey Goble

Driller/Trainee Signature

Cased or Uncased Diameter

3 1/4"

Static Level

6'

Driller/Trainee License No.

2501

Work/Decommission Start Date

01/03/11

If trainee, licensed driller's Signature and License No.

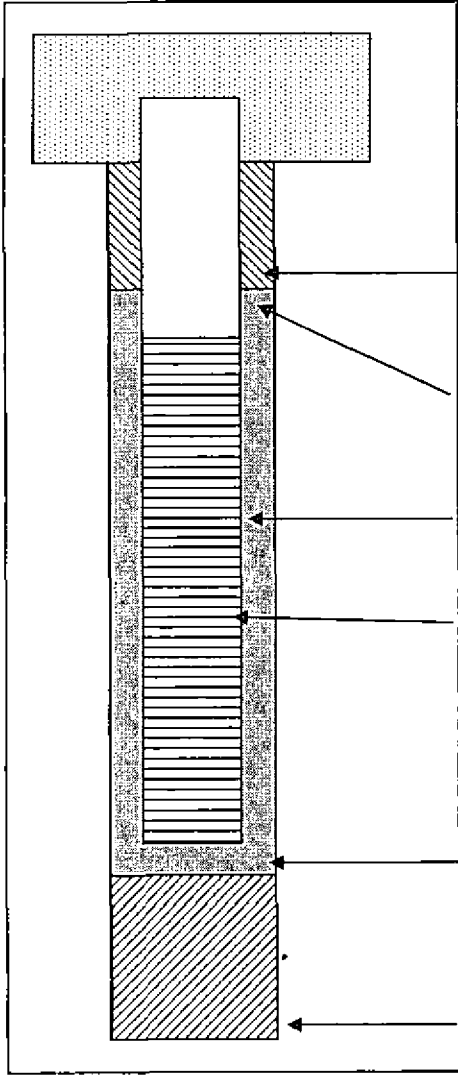
Work/Decommission End Date

1/5/11

Construction/Design

W11-004

Formation Description



Concrete Surface Seal Depth	2	FT
Blank Casing (dia x dep)	1" x 4"	
Material	PVC	
Backfill	1	FT
Type	-	
Seal	BENTONITE	
Material	CHIPS	
Gravel Pack	6	FT
Material	2/12 SAND	
Screen (dia x dep)	1" x 5'	
Slot Size	10	
Material	PVC PRE PACK	
Well Depth	9	FT
Backfill	-	
Material	NATIVE	
Total Hole Depth	13	FT

0 - 3	FT
Fill	
0 3 - 9	FT
GREY SILTY SAND	
0 9 - 13	FT
GREY CLAY	



Scale 1" = _____

Page _____ of _____

Rev 2/01

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL REPORT

MW-B69

CURRENT

25-3E-26B

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No.

RE05321

Construction/Decommission

404055

Type of Well

Construction

Resource Protection

Decommission ORIGINAL INSTALLATION Notice of Intent Number

Geotechnical Soil Boring

Property Owner

Port of Seattle

Site Address

W. Garfield & 16th Ave. W

City

Seattle

County

King

Consulting Firm

Pinnacle GeoSciences

EWM

Unique Ecology Well ID Tag No.

BCM 887

Location

1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

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

Lat/Long (s,t,r still Required)

Lat Deg x Lat Min/Sec x Long Deg x Long Min/Sec x

Tax Parcel No.

Driller Trainee Name (Print)

Kasey Goble

Driller/Trainee Signature

[Signature]

Cased or Uncased Diameter

3 1/4"

Static Level

6'

Driller/Trainee License No.

2501

Work/Decommission Start Date

01/03/11

If trainee, licensed driller's Signature and License No.

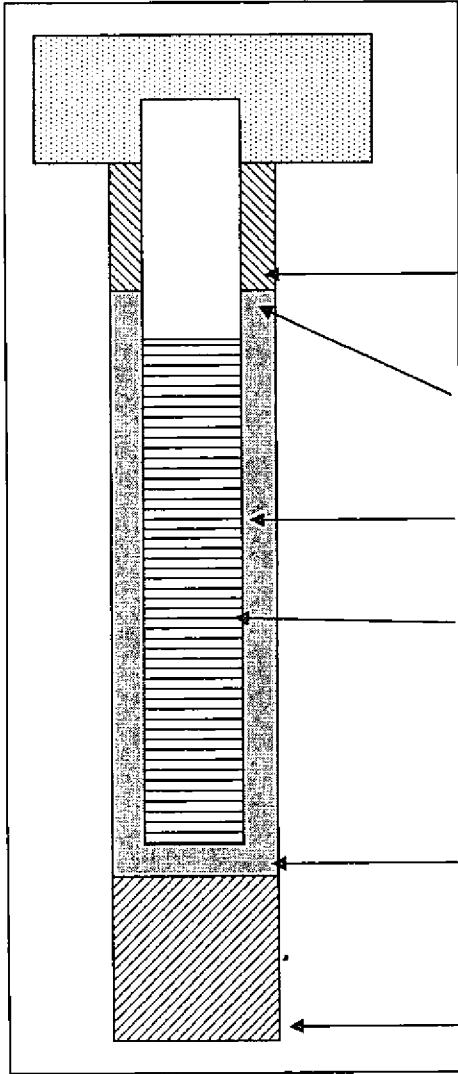
Work/Decommission End Date

1/5/11

Construction/Design

W11-004

Formation Description



Concrete Surface Seal Depth 2 FT

Blank Casing (dia x dep) 1" x 4" Material PVC

Backfill 1 FT Type -

Seal BENTONITE Material CHIPS

Gravel Pack 6 FT Material 2/12 SAND

Screen (dia x dep) 1" x 5' Slot Size 10 Material PVC PRE PACK

Well Depth 9 FT

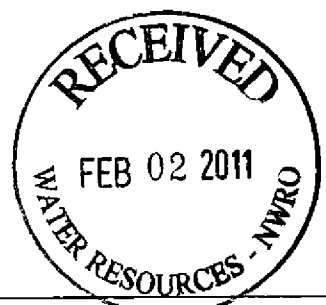
Backfill - Material NATIVE

Total Hole Depth 13 FT

0 - 3 FT FILL

0 3 - 9 FT GREY SILTY SAND

0 9 - 13 FT GREY CLAY



Scale 1" =

Page of

ECY 050-12 (Rev 2-01)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL REPORT

MW-B70

25-3E-26B

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No.

RE05321

Construction/Decommission

404056

Type of Well

Construction

Resource Protection

Decommission ORIGINAL INSTALLATION Notice of Intent Number

Geotechnical Soil Boring

Property Owner

Port of Seattle

Site Address

W. Garfield & 16th Ave. W

City

Seattle

County

King

Consulting Firm

Pinnacle GeoSciences

EWM

Unique Ecology Well ID

Tag No.

BCM 888

Location

1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

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

Lat/Long (s,t,r still Required)

Lat Deg x Lat Min/Sec x Long Deg x Long Min/Sec x

Tax Parcel No.

Driller Trainee Name (Print)

Kasey Goble

Driller/Trainee Signature

Cased or Uncased Diameter

3 1/4"

Static Level

6'

Driller/Trainee License No.

2501

Work/Decommission Start Date

01/03/11

If trainee, licensed driller's

Signature and License No.

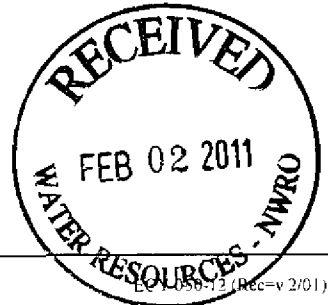
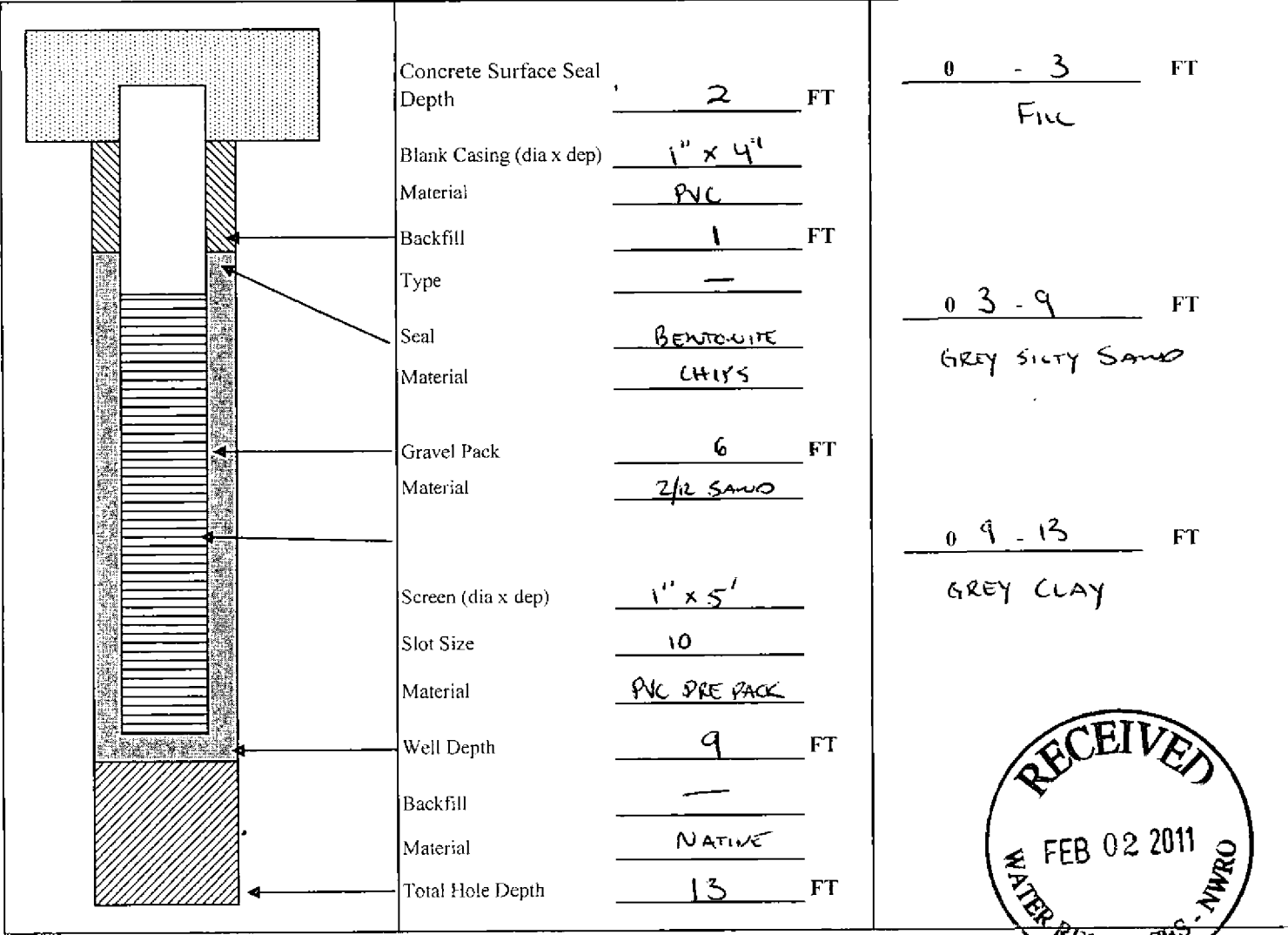
Work/Decommission End Date

1/5/11

Construction/Design

W11-004

Formation Description



Scale 1" = _____

Page _____ of _____

EC 1058-13 (Rev=v 2/01)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL REPORT

MW-B72

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

25-3E-26B

Notice of Intent No.

RE05321

Construction/Decommission

404057

Type of Well

Construction

Resource Protection

Decommission ORIGINAL INSTALLATION Notice of Intent Number

Geotechnical Soil Boring

Property Owner

Port of Seattle

Site Address

W. Garfield & 16th Ave. W

City

Seattle

County

King

Consulting Firm

Pinnacle GeoSciences

EWM

Unique Ecology Well ID

Tag No.

BCM 889

Location

1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

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

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

Lat/Long (s,t,r

Lat Deg

x

Lat Min/Sec

x

still Required)

Long Deg

x

Long Min/Sec

x

Tax Parcel No.

Driller Trainee Name (Print)

Kasey Goble

Driller/Trainee Signature

[Signature]

Cased or Uncased Diameter

3 1/4"

Static Level

6'

Driller/Trainee License No.

2501

Work/Decommission Start Date

01/03/11

If trainee, licensed driller's

Signature and License No.

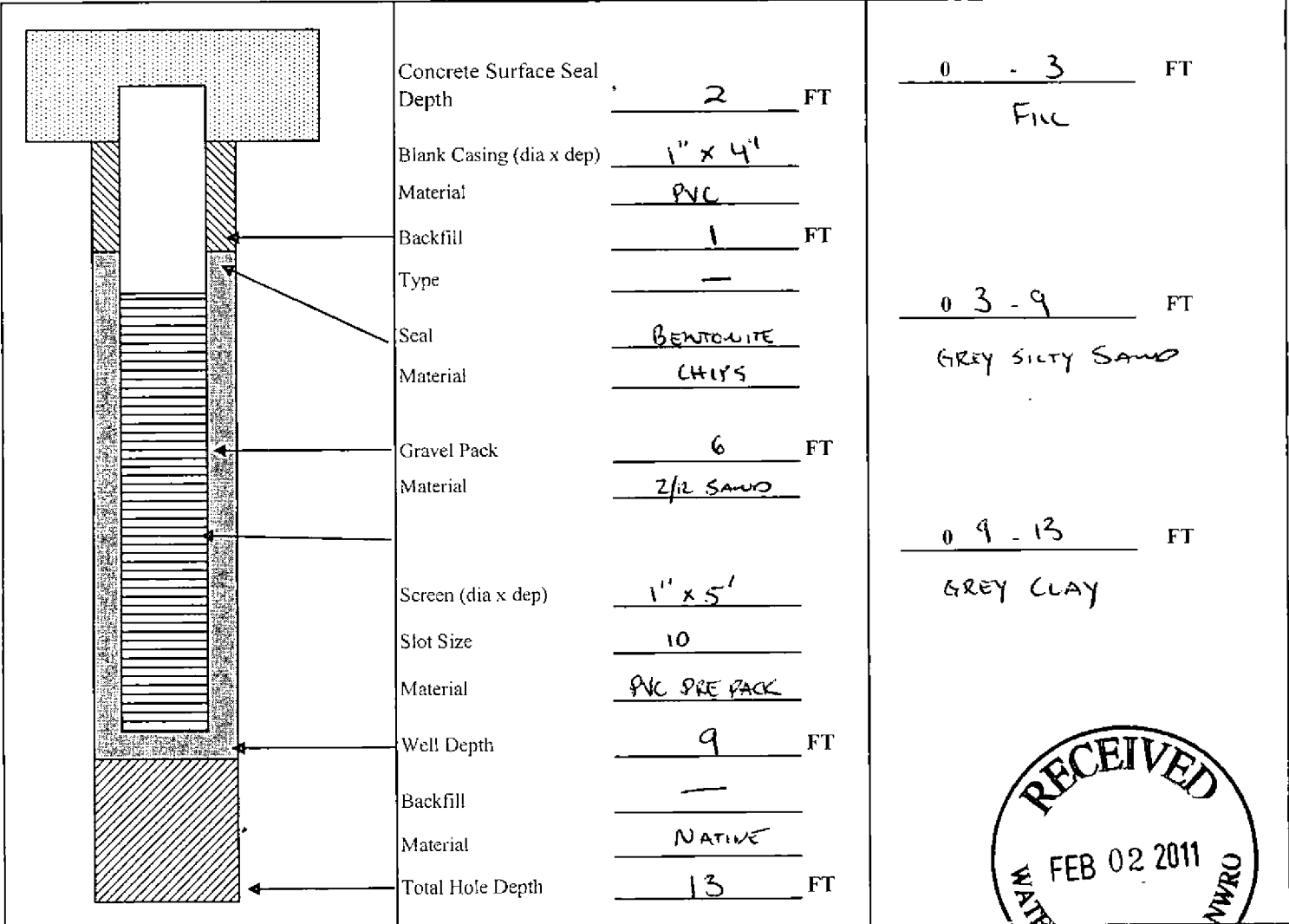
Work/Decommission End Date

1/5/11

Construction/Design

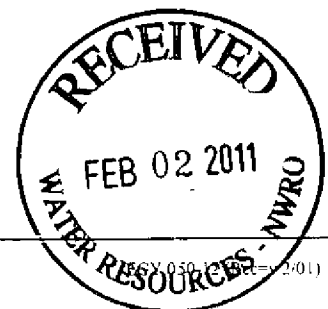
W11-004

Formation Description



Scale 1" = _____

Page _____ of _____



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

MW-B75

25-3E-26B

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No.

RE05321

Construction/Decommission

404058

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number

Type of Well

Resource Protection

Geotechnical Soil Boring

Property Owner

Port of Seattle

Site Address

W. Garfield & 16th Ave. W

City

Seattle

County

King

Consulting Firm

Pinnacle GeoSciences

EWM

Unique Ecology Well ID Tag No.

BCM 890

Location

1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

Lat/Long (s,t,r still Required)

Lat Deg x Lat Min/Sec x Long Deg x Long Min/Sec x

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

Tax Parcel No.

Driller Trainee Name (Print)

Kasey Goble

Driller/Trainee Signature

[Signature]

Cased or Uncased Diameter

3 1/4

Static Level 5'

Driller/Trainee License No.

2501

Work/Decommission Start Date

01/03/11

If trainee, licensed driller's

Signature and License No.

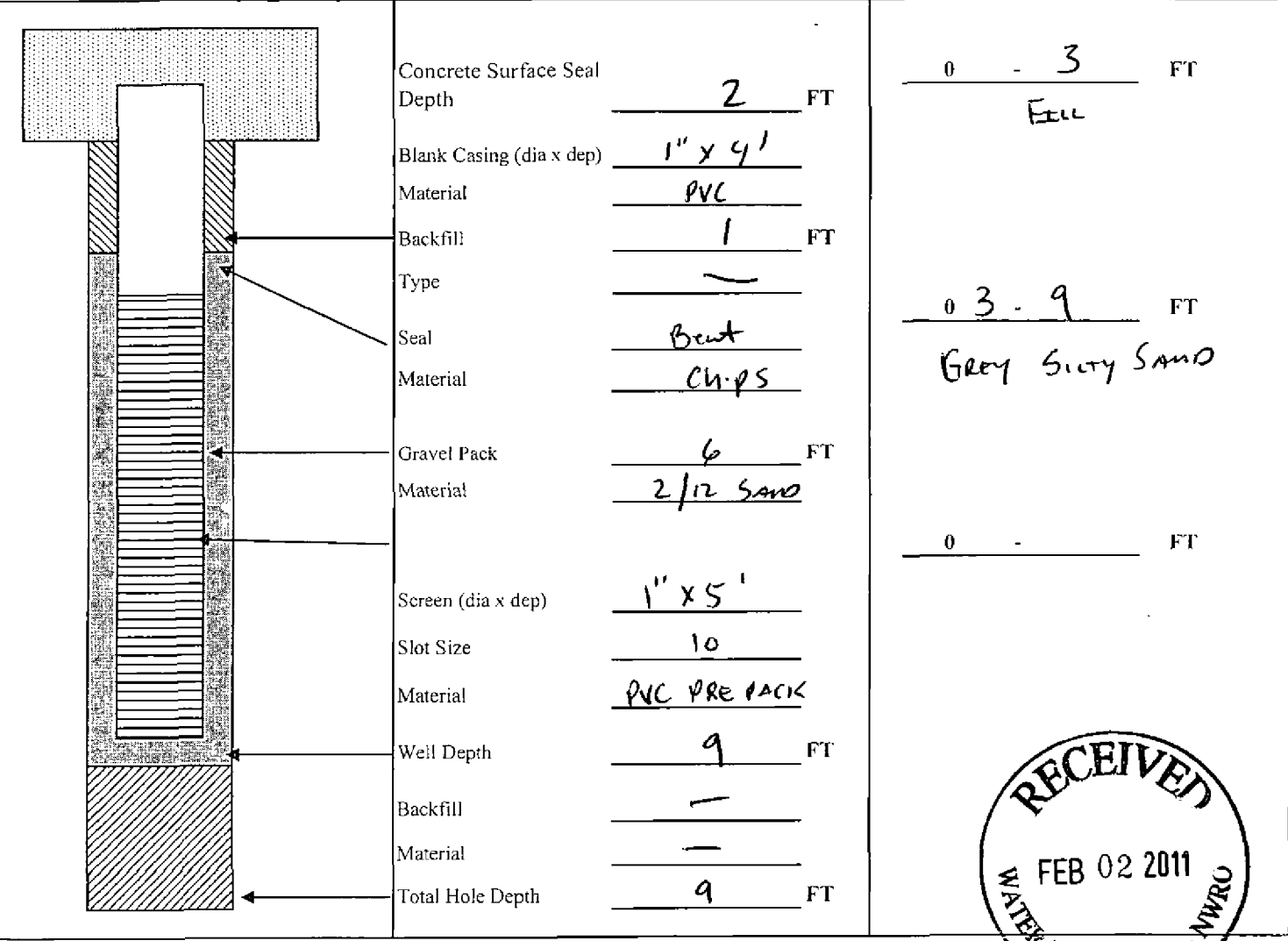
Work/Decommission End Date

1/5/11

Construction/Design

W11-004

Formation Description



Scale 1" =

Page of

REC-01-0500 (Rev. 2/01)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

MW-B78

25-3E-26B

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. RE05321

Construction/Decommission 404059
 Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring

Consulting Firm Pinnacle GeoSciences

Property Owner Port of Seattle
 Site Address W. Garfield & 16th Ave. W
 City Seattle County King

Unique Ecology Well ID Tag No. BCM 891

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 03E or WWM

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

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

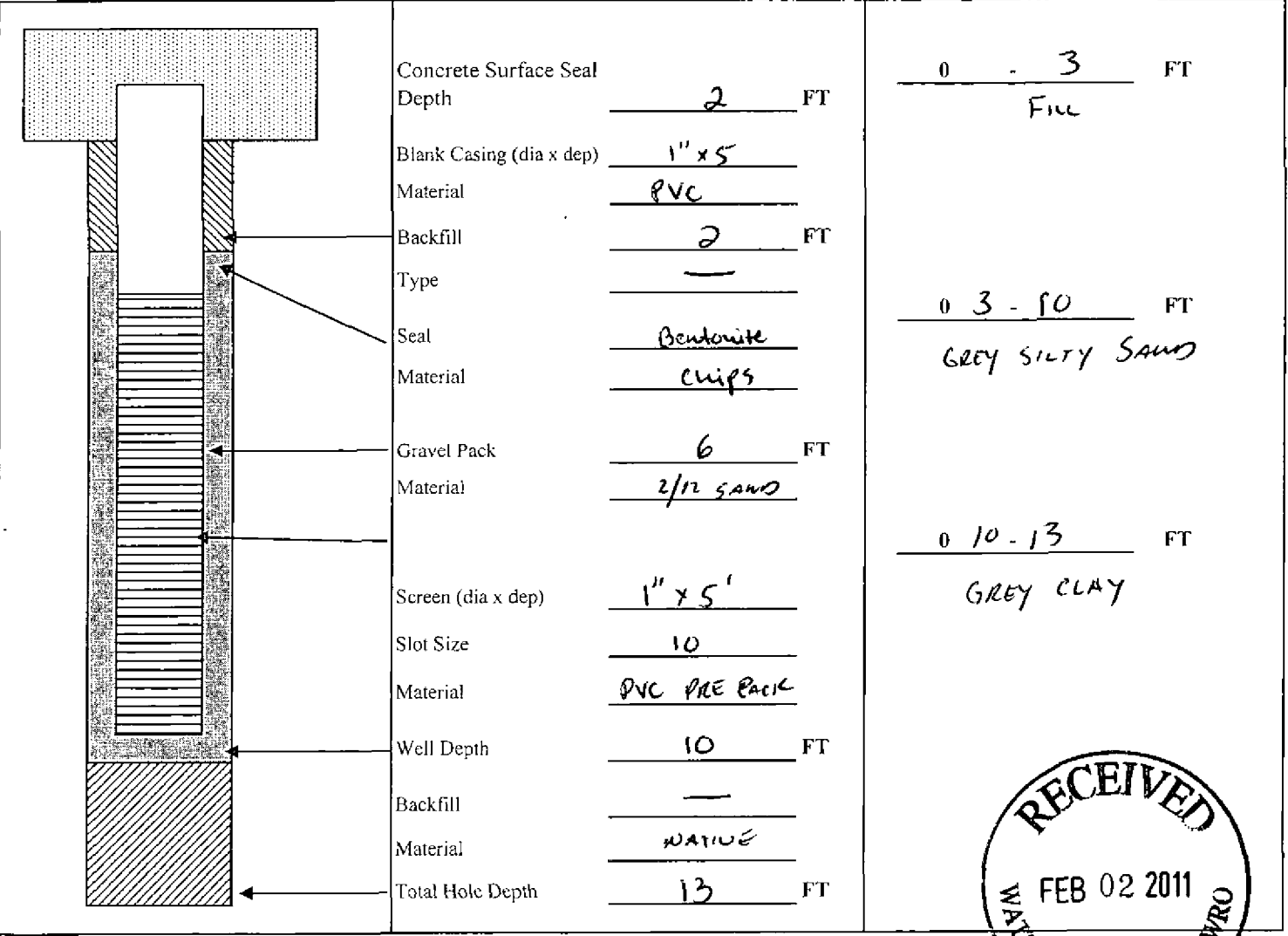
Driller Trainee Name (Print) Kasey Goble
 Driller/Trainee Signature [Signature]
 Driller/Trainee License No. 2501

Tax Parcel No. _____
 Cased or Uncased Diameter 3/4 Static Level 5
 Work/Decommission Start Date 01/03/11

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

Work/Decommission End Date 1/5/11

Construction/Design W11-004 Formation Description



Scale 1" = _____

Page _____ of _____



ECY 050-12 (Rev. 2/01)

RESOURCE PROTECTION WELL REPORT

CURRENT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. RE05477

Construction/Decommission

407634

Construction

Type of Well

Resource Protection

Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle

Site Address 2001 Garfield St.

City Seattle

County 17-King

Unique Ecology Well ID

Tag No. BHB 012

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E EWM or WWM

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

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

All materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd

Driller/Trainee Signature E. Floyd

Cased or ~~for~~ Uncased Diameter 3/4 Static Level 10

Driller/Trainee License No. 2842

Work/Decommission Start Date 2/7/2011

If trainee, licensed driller's

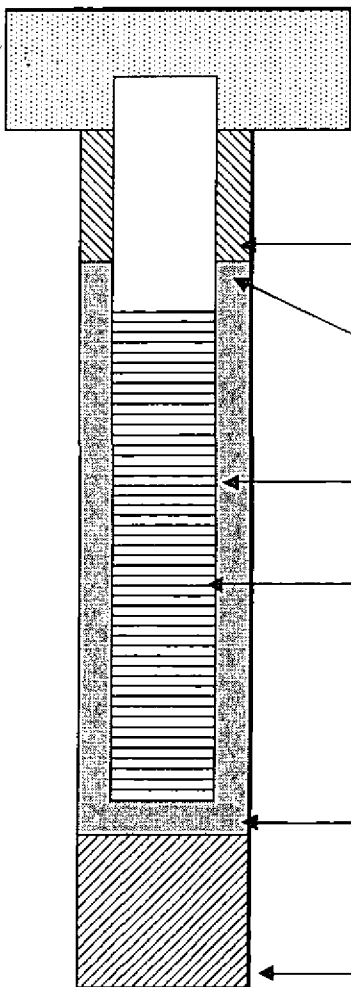
Signature and License No. _____

Work/Decommission End Date 2/7/2011

Construction/Design

Well Data W11-060

Formation Description



Concrete Surface Seal Depth	<u>2'</u>	FT
Blank Casing (dia x dep)	<u>1" 8'</u>	
Material	<u>PVC</u>	
Backfill	<u>N/A</u>	FT
Type	<u>N/A</u>	
Seal	<u>4'</u>	
Material	<u>Bentonite chips</u>	
Gravel Pack	<u>7'</u>	FT
Material	<u>2/12 sands</u>	
Screen (dia x dep)	<u>1" x 5'</u>	
Slot Size	<u>.010 Pre Pack</u>	
Material	<u>2/12 sand</u>	
Well Depth	<u>13'</u>	FT
Backfill	<u>Bentonite chips</u>	
Material	<u>2'</u>	
Total Hole Depth	<u>15'</u>	FT

0 - 10' FT
Silt, sands 40%, med. to small gravels, light brown, Dry, compact.

0 - 15' FT
Silt, sands 60%, med to smalls, gravels, small shells, wet, compact

0 - FT

Scale 1" = _____

Page _____ of _____



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL REPORT

CURRENT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. RE05477

Construction/Decommission

407636

Construction

Type of Well

Resource Protection

Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle

Site Address 2001 Garfield St.

City Seattle

County 17-King

Unique Ecology Well ID

Tag No. BHB 014

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E EWM or WWM

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

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

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd

Driller/Trainee Signature Eli Floyd

Cased or Uncased Diameter 3/4 Static Level 10'

Driller/Trainee License No. 2842

Work/Decommission Start Date 2/7/2011

Drill trainee, licensed driller's

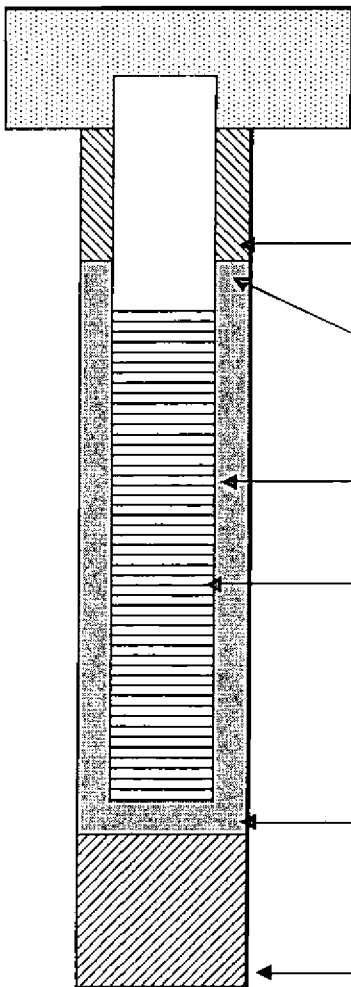
Signature and License No. _____

Work/Decommission End Date 2/10/2011

Construction/Design

Well Data W11-060

Formation Description



Concrete Surface Seal Depth	<u>2'</u>	FT
Blank Casing (dia x dep)	<u>1" 8'</u>	
Material	<u>PVC</u>	
Backfill	<u>N/A</u>	FT
Type	<u>N/A</u>	
Seal	<u>4'</u>	
Material	<u>Bentonite chips</u>	
Gravel Pack	<u>7'</u>	FT
Material	<u>2/12 sands</u>	
Screen (dia x dep)	<u>1" x 5'</u>	
Slot Size	<u>.010 Pre Pack</u>	
Material	<u>2/12 sand</u>	
Well Depth	<u>13'</u>	FT
Backfill	<u>Bentonite chips</u>	
Material	<u>2'</u>	
Total Hole Depth	<u>15'</u>	FT

0 - 10' FT
Silt, sands 90%, med to small gravels, light brown, Dry compact

0 - 15' FT
silt, sands 60%, med to small gravels, small shells, wet, compact.

0 - FT



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

P91-MW03

25-3E-36B

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No.

RE05477

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

467635

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle

Site Address 2001 Garfield St.

City Seattle County 17-King

Unique Ecology Well ID _____
Tag No. BHB 013

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E or _____
WWM

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

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

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd
Driller/Trainee Signature [Signature]
Driller/Trainee License No. 2842

Cased or Uncased Diameter 3/4 Static Level 10

Work/Decommission Start Date 2/7/2011

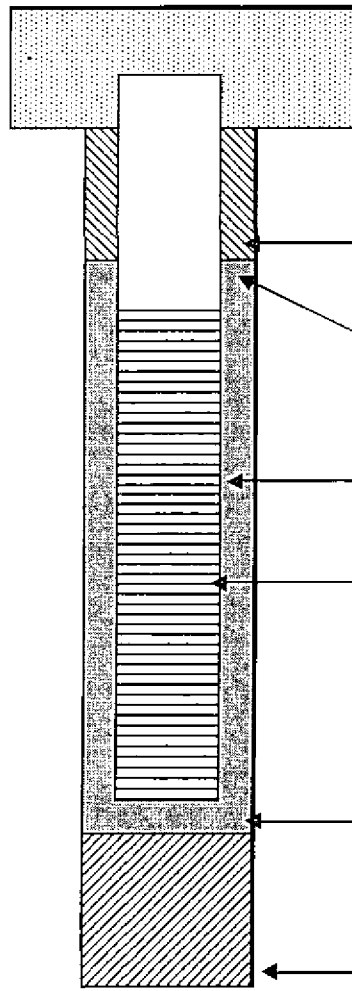
If trainee, licensed driller's Signature and License No. _____

Work/Decommission End Date 2/7/2011

Construction/Design

Well Data W11-060

Formation Description



Concrete Surface Seal Depth 2' FT

Blank Casing (dia x dep) 1" 8'

Material PVC

Backfill N/A FT

Type N/A

Seal 4'

Material Bentonite chips

Gravel Pack 7' FT

Material 2/12 sands

Screen (dia x dep) 1" x 5'

Slot Size .010 PVC Pack

Material 2/12 sand

Well Depth 13' FT

Backfill 1 2'

Material Bentonite chips

Total Hole Depth 15' FT

0 - 10' FT
silts, sands 40% med to small gravels, light brown, Dry, compact

0 - 15' FT
silts, sands 80% med, to small, gravels, small shells, wet, compact

0 - FT

Scale 1" = _____

Page _____ of _____



RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No.

RE05477

Construction/Decommission

407640

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle

Site Address 2001 Garfield St.

City Seattle

County 17-King

Unique Ecology Well ID

Tag No. BHB-018

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E EWM or WWM

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

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

Lat/Long (s,t,r Lat Deg _____

Lat Min/Sec _____

still Required) Long Deg _____

Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd

Driller/Trainee Signature EJ Floyd

Driller/Trainee License No. 2842

Cased or Uncased Diameter 3/4

Static Level 10'

Work/Decommission Start Date

2-7-2011

If trainee, licensed driller's

Signature and License No. _____

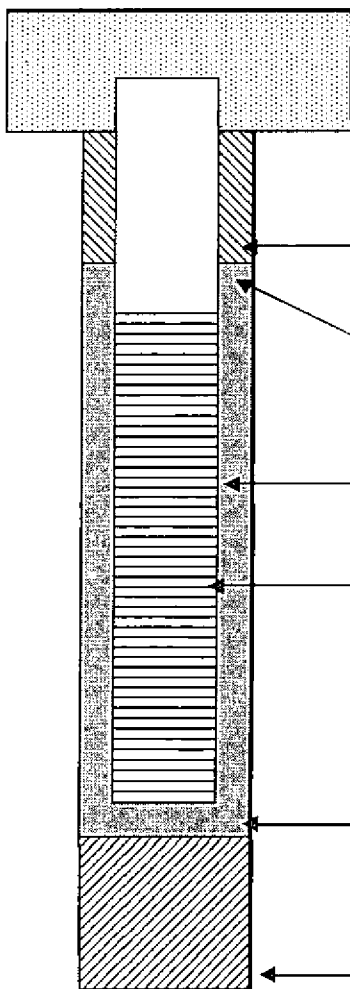
Work/Decommission End Date

2-10-2011

Construction/Design

Well Data W11-060

Formation Description



Concrete Surface Seal Depth	<u>2'</u>	FT
Blank Casing (dia x dep)	<u>1" x 9'</u>	
Material	<u>PVC</u>	
Backfill	<u>N/A</u>	FT
Type	<u>N/A</u>	
Seal	<u>5'</u>	
Material	<u>Bentonite chips</u>	
Gravel Pack	<u>7'</u>	FT
Material	<u>2/12 sand / PVC Pack</u>	
Screen (dia x dep)	<u>1" x 5'</u>	
Slot Size	<u>.010 PVC Pack</u>	
Material	<u>PVC</u>	
Well Depth	<u>14'</u>	FT
Backfill	<u>6'</u>	
Material	<u>Bentonite chips</u>	
Total Hole Depth	<u>20</u>	FT

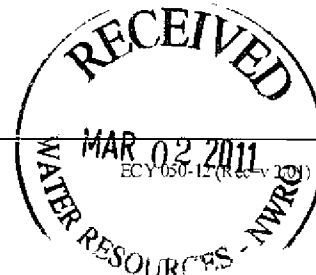
0 - 10' FT
 silts, sands, small gravels
 Compact, Dry, light brown

0 - 20' FT
 sands, 60%, silts, small
 gravels, compact, wet
 sec shells.

0 FT

Scale 1" = _____

Page _____ of _____



RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No.

RE05477

Construction/Decommission

407637

Construction

Decommission ORIGINAL INSTALLATION Notice

of Intent Number _____

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle

Site Address 2001 Garfield St.

City Seattle

County 17-King

Unique Ecology Well ID

Tag No. BHB 015

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E FWM or WWM

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

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

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

still Required) Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd

Driller/Trainee Signature Eli Floyd

Driller/Trainee License No. 2842

Cased or Uncased Diameter 3/4

Static Level 10

Work/Decommission Start Date 2-7-2011

Work/Decommission End Date 2-10-2011

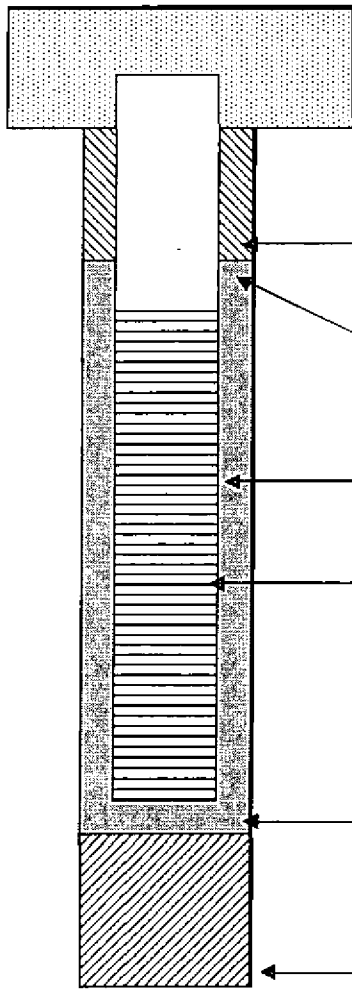
Driller/trainee, licensed driller's

Signature and License No. _____

Construction/Design

Well Data W11-060

Formation Description



Concrete Surface Seal	
Depth	<u>2'</u> FT
Blank Casing (dia x dep)	<u>1" 8 1/2"</u>
Material	<u>PVC</u>
Backfill	<u>N/A</u> FT
Type	<u>N/A</u>
Seal	<u>4 1/2</u>
Material	<u>Bentonite chips</u>
Gravel Pack	<u>7</u> FT
Material	<u>2/12 sand</u>
Screen (dia x dep)	<u>1" 5'</u>
Slot Size	<u>.010 PVC Pack</u>
Material	<u>2/12 sand</u>
Well Depth	<u>13 1/2</u> FT
Backfill	<u>1 1/2'</u>
Material	<u>2/12 sand</u>
Total Hole Depth	<u>15'</u> FT

0 - 10 FT
Silt, sand 40%, small gravels, compact, light brown, dry.

0 - 15 FT
sands 60%, small gravels some silt, sea shells, compact, vct. light grey.

0 FT

Scale 1" = _____

Page _____ of _____



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL REPORT

CURRENT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. RE05477

Construction/Decommission

407638

Type of Well

Construction

Resource Protection

Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle

Site Address 2001 Garfield St.

City Seattle

County 17-King

Unique Ecology Well ID

Tag No. BHB 016

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E EWM or WWM

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

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

still Required) Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd

Driller/Trainee Signature E. Floyd

Cased or Uncased Diameter 3 1/4

Static Level 10'

Driller/Trainee License No. 2842

Work/Decommission Start Date 2-7-2011

Trainee, licensed driller's

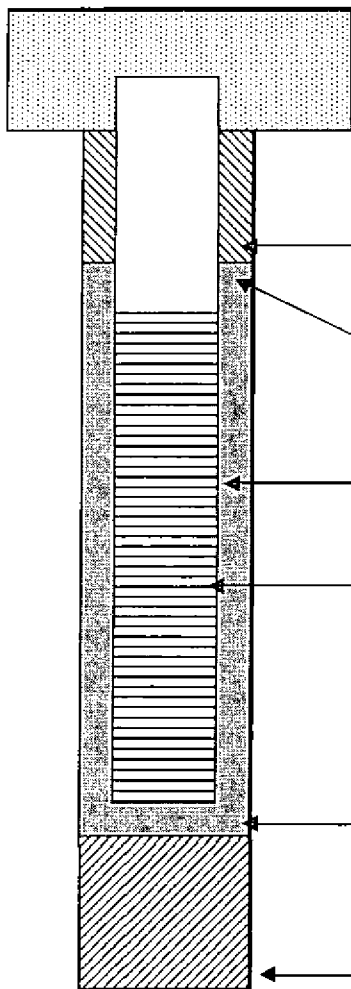
Signature and License No. _____

Work/Decommission End Date 2-10-2011

Construction/Design

Well Data W11-060

Formation Description



Concrete Surface Seal Depth	<u>2'</u>	FT
Blank Casing (dia x dep)	<u>1" 8 1/2"</u>	
Material	<u>PVC</u>	
Backfill	<u>N/A</u>	FT
Type	<u>N/A</u>	
Seal	<u>4 1/2'</u>	
Material	<u>Bentonite chips</u>	
Gravel Pack	<u>7'</u>	FT
Material	<u>2/12 sands</u>	
Screen (dia x dep)	<u>1" x 5'</u>	
Slot Size	<u>.010 PVC Pack</u>	
Material	<u>2/12 sand</u>	
Well Depth	<u>13 1/2'</u>	FT
Backfill	<u>8 1/2'</u>	
Material	<u>2/12 sand</u>	
Total Hole Depth	<u>19'</u>	FT

0 - 10 FT
silt, sands 40%, small gravels, compact, light brown, dry

0 - 19 FT
silt, sands 60%, small gravels, sea shells, compact wet, light grey

0 - FT

Scale 1" = _____

Page _____ of _____



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

BORING LOCATION Pier 91 Area D		Well Name P91D-B15	
DRILLING COMPANY Cascade		DRILLER Eli	
DRILLING METHOD(S) GeoProbe		DRILL BIT(S) SIZE 2-inch	
ISOLATION CASING N/A		Project Name Port of Seattle Pier 90-91	
BLANK CASING 1-inch Schedule 40 PVC Pipe		Project Number 1096004*02	
SLOTTED CASING 1-inch Prepack PVC 0.010-inch Slotted Screen		ELEVATION AND DATUM bgs	
SIZE AND TYPE OF FILTER PACK Colorado Silica Sand		TOTAL DEPTH 20.0 ft. bgs	
SEAL Hydrated Bentonite Chips		DATE STARTED 2/9/11	
GROUT Concrete		DATE COMPLETED 2/9/11	
		INITIAL WATER DEPTH (FT) 10.5	
		LOGGED BY DKM	
		SAMPLING METHODS MacroCore w/Liner	
		WELL COMPLETION <input checked="" type="checkbox"/> SURFACE HOUSING <input type="checkbox"/> STAND PIPE _____ FT.	

SAMPLES			DEPTH (FEET)	SAMPLE NUMBER	WELL CONSTRUCTION	PID	LITHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
TYPE	RECOV (FEET)	PENETR. RESIST. BLOWS/6'							
									Asphalt and crushed rock base
SS	4.5					0	GW		Well-graded GRAVEL with sand Gray-brown, angular to subangular gravel with ~40% sand, moderately dense, moist, no odor, no sheen.
			5				SP		Poorly graded SAND with gravel Tan-brown to brown, medium sand with up to 45% angular to subrounded gravel, moderately dense, moist, no odor, no sheen.
SS	5					0	SW		Well-graded SAND with gravel Gray-brown, medium to coarse sand with ~40% subangular to rounded gravel, moderately dense, moist to wet, no odor, no sheen.
			10						
SS	4			P91D-B15-12		1705	SP/SM		Poorly graded SAND with silt and gravel Dark gray, medium sand with up to ~15% silt and ~15% gravel, moderately dense, wet, strong hydrocarbon odor, light sheen.
			15			50.4			Well-graded SAND with gravel Dark gray, coarse to medium sand, ~40% subrounded to rounded gravel, moderately dense, wet, slight hydrocarbon odor, no sheen.
SS	2			P91D-B15-18		264.4	SW		
			20						

NOTES

1. Monitoring well P91_MW07 installed.

KJ PNW P90-91 2011 BORING LOGS.GPJ KJ PNW.GDT 11/2/11

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

P91-MW08

25-3E-24B

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE05477

Construction/Decommission

Construction

407641

Decommission ORIGINAL INSTALLATION Notice

of Intent Number _____

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle

Site Address 2001 Garfield St.

City Seattle County 17-King

Unique Ecology Well ID

Tag No. BHB 019

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E or EWM
WWM

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

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

still Required) Long Deg _____ Long Min/Sec _____

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

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd

Driller/Trainee Signature EJ Floyd

Cased or Uncased Diameter 3/4" Static Level 10'

Driller/Trainee License No. 2842

Work/Decommission Start Date 2/7/2011

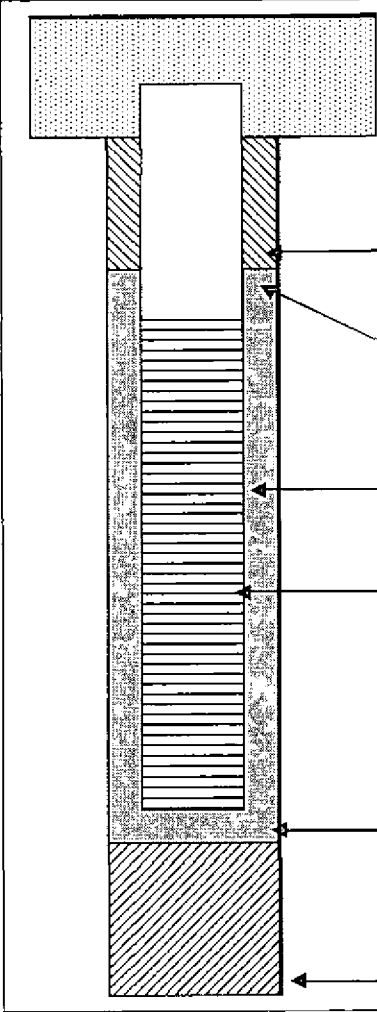
If trainee, licensed driller's Signature and License No. _____

Work/Decommission End Date 2/10/2011

Construction/Design

Well Data W11-060

Formation Description



Concrete Surface Seal Depth 2' FT

Blank Casing (dia x dep) 1" 9'

Material PVC

Backfill N/A FT

Type N/A

Seal 5'

Material Bentonite chips

Gravel Pack 7' FT

Material 2/12 sand/Pre Pack

Screen (dia x dep) 1" 5'

Slot Size .010 Pre Pack

Material PVC

Well Depth 14' FT

Backfill 6'

Material Bentonite chips

Total Hole Depth 20' FT

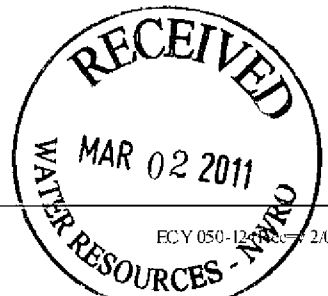
0 - 10' FT
Silt, sands 40%, small gravels, compact, light brown, Dry

0 - 20' FT
Sands 60%, med gravels to 2", sea shells, wet light grey

0 - FT

Scale 1" = _____

Page _____ of _____



ECY 050-125 (Rev. 2/01)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL

P91-MW09

CURRENT

25-3E-26B

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. RE06089

Construction/Decommission 424068
Construction
Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle
Site Address 2001 Garfield St.
City Seattle County 17-King

Unique Ecology Well ID
Tag No. BHA-205

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E or EWM
WWM

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

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

Driller Trainee Name (Print) Elijah Floyd
Driller/Trainee Signature Elijah Floyd
Driller/Trainee License No. 2842

Tax Parcel No. _____
Cased or Uncased Diameter 3 1/2" Static Level 9'

Drill trainee, licensed driller's signature and License No. _____

Work/Decommission Start Date 2/27/2011
Work/Decommission End Date 2/28/2011

Construction/Design	Well Data W11-446	Formation Description	
	Concrete Surface Seal Depth <u>2'</u> FT	<u>0 - 9</u> FT silt, sands, 30% small gravels, unconsolidated, loose, dry light brown	
	Blank Casing (dia x dep) <u>1" x 10'</u> Material <u>PVC</u>		
	Backfill <u>N/A</u> FT Type <u>N/A</u>		
	Seal <u>6'</u> Material <u>Bentonite chips</u>	<u>0 - 20'</u> FT sands 60% small gravels loose, wet, med grey	
	Gravel Pack <u>7'</u> FT Material <u>2/12 sand</u>		
	Screen (dia x dep) <u>1" x 5'</u> Slot Size <u>.010</u> Material <u>PVC Pre Pack</u>		
	Well Depth <u>15'</u> FT Backfill <u>5'</u> Material <u>Bentonite chips</u>		
	Total Hole Depth <u>20'</u> FT		

Scale 1" = _____

Page _____ of _____

ECY 050-12 (Rev 201)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

P91-MW10

25-3E-26B

RESOURCE PROTECTION WELL REPORT

CURRENT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. RE06089

Construction/Decommission

424069

Type of Well

Construction

Resource Protection

Decommission ORIGINAL INSTALLATION Notice

Geotechnical Soil Boring

of Intent Number _____

Property Owner Port of Seattle

Site Address 2001 Garfield St.

Consulting Firm Kennedy/Jenks Consultants-Federal Way

City Seattle County 17-King

Unique Ecology Well ID

Tag No. BHA-206

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E or WWM

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

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

still Required) Long Deg _____ Long Min/Sec _____

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

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd

Cased or Uncased Diameter 3 1/2" Static Level 9'

Driller/Trainee Signature Elijah Floyd

Work/Decommission Start Date 7/27/2011

Driller/Trainee License No. 2842

Work/Decommission End Date 7/28/2011

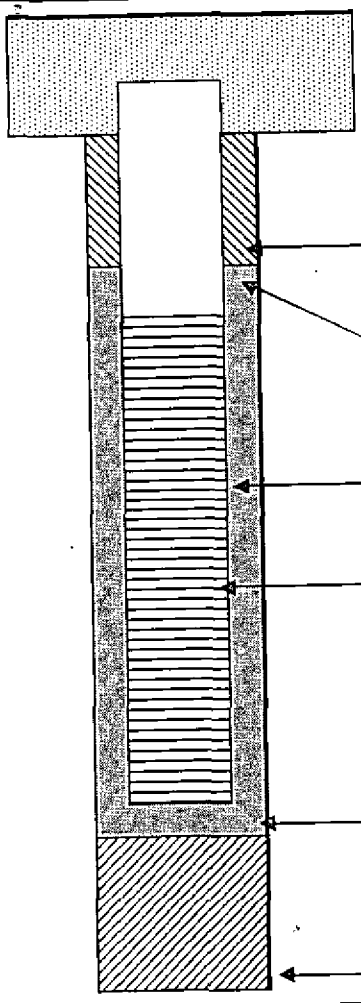
If trainee, licensed driller's

Signature and License No. _____

Construction/Design

Well Data W11-446

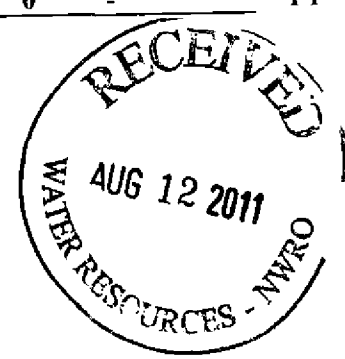
Formation Description



Concrete Surface Seal Depth	<u>2'</u>	FT
Blank Casing (dia x dep)	<u>1" X 10</u>	
Material	<u>PVC</u>	
Backfill	<u>N/A</u>	FT
Type	<u>N/A</u>	
Seal	<u>6'</u>	
Material	<u>Bentonite chips</u>	
Gravel Pack	<u>7'</u>	FT
Material	<u>2/12 sand</u>	
Screen (dia x dep)	<u>1" X 5'</u>	
Slot Size	<u>.010</u>	
Material	<u>PVC Per Pack</u>	
Well Depth	<u>15'</u>	FT
Backfill	<u>N/A</u>	
Material	<u>N/A</u>	
Total Hole Depth	<u>15'</u>	FT

0 - 9' FT
silt/s sands, 40%, small gravels, Dry, light brown

0 - 15' FT
sands 60%, small gravels sea shells, Dregz Fill, wct.



Scale 1" = _____

Page _____ of _____

ECY 050-12 (Rev 2.01)

RESOURCE PROTECTION WELL

P91-MW11

CURRENT 25-3E-26B
 Notice of Intent No. REC6089

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission
 Construction 424070
 Decommission ORIGINAL INSTALLATION Notice
 of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle
 Site Address 2001 Garfield St.
 City Seattle County 17-King

Unique Ecology Well ID
 Tag No. BHA-207

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E or _____
 WWM

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

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

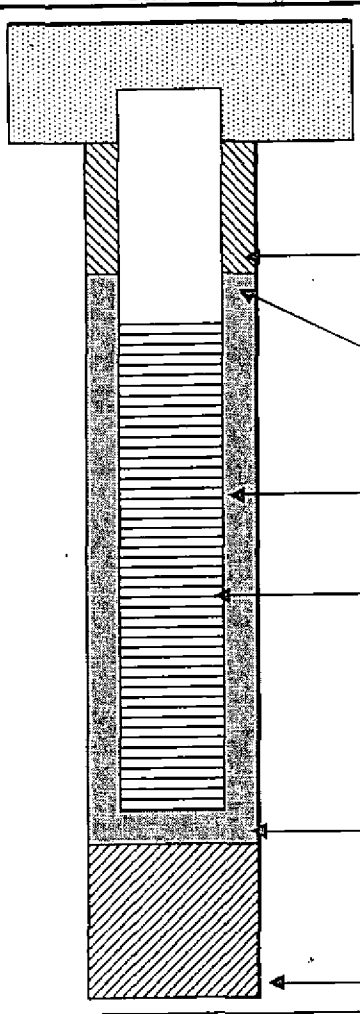
Driller Trainee Name (Print) Elijah Floyd
 Driller/Trainee Signature Elijah Floyd
 Driller/Trainee License No. 2842

Tax Parcel No. _____
 Cased or Uncased Diameter 3 1/2" Static Level 9'

Drill trainee, licensed driller's
 signature and License No. _____

Work/Decommission Start Date 2/27/2011
 Work/Decommission End Date 2/28/2011

Construction/Design Well Data W11-446 Formation Description



Concrete Surface Seal
 Depth 2' FT
 Blank Casing (dia x dep) 1" x 10'
 Material PVC
 Backfill N/A FT
 Type N/A
 Seal 6'
 Material Bentonite chips
 Gravel Pack 7' FT
 Material 2/12 sand
 Screen (dia x dep) 1" x 5'
 Slot Size .010
 Material PVC Pre Pack
 Well Depth 15' FT
 Backfill 5'
 Material Bentonite chips
 Total Hole Depth 20' FT

0 - 9 FT
 silts, sands, 30', small
 gravels, UNconsolidated,
 loose, Dry light brown
0 - 20' FT
 sands 60', small gravels
 loose, wet, med grey
0 FT



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RESOURCE PROTECTION WELL

P91-MW12

CURRENT

25-3E-26B

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. RE06089

Construction/Decommission
 Construction 424071
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring

Consulting Firm Kennedy/Jenks Consultants-Federal Way

Property Owner Port of Seattle
Site Address 2001 Garfield St.
City Seattle County 17-King

Unique Ecology Well ID
Tag No. BHA-208

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E or EWM WWM

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

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

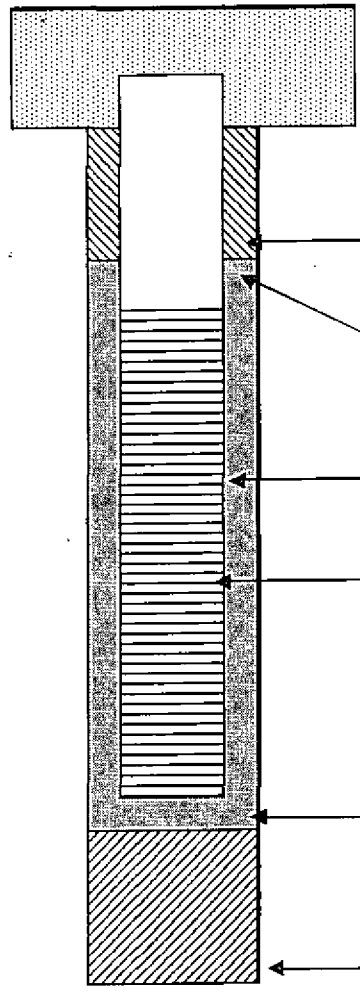
Driller Trainee Name (Print) Elijah Floyd
Driller/Trainee Signature *Elijah Floyd*
Driller/Trainee License No. 2842

Tax Parcel No. _____
Cased or Uncased Diameter 3 1/2" Static Level 9'

Drill trainee, licensed driller's
Signature and License No. _____

Work/Decommission Start Date 2/27/2011
Work/Decommission End Date 2/28/2011

Construction/Design Well Data W11-446 Formation Description



Concrete Surface Seal	<u>2'</u>	FT
Depth		
Blank Casing (dia x dep)	<u>1" x 10'</u>	
Material	<u>PVC</u>	
Backfill	<u>N/A</u>	FT
Type	<u>N/A</u>	
Seal	<u>6'</u>	
Material	<u>Bentonite chips</u>	
Gravel Pack	<u>7'</u>	FT
Material	<u>2/12 sand</u>	
Screen (dia x dep)	<u>1" x 5'</u>	
Slot Size	<u>.010</u>	
Material	<u>PVC Pre Pack</u>	
Well Depth	<u>15'</u>	FT
Backfill	<u>5'</u>	
Material	<u>Bentonite chips</u>	
Total Hole Depth	<u>20'</u>	FT

0 - 9 FT
silt, sands, 30', small gravels, unconsolidated, loose, Dry light brown

0 - 20' FT
sands 60%, small gravels loose, wet, med grey

0 - FT



Scale 1" = _____

Page _____ of _____

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

P91-MW13

RESOURCE PROTECTION WELL REPORT

CURRENT

25-3E-26B

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No.

RE06089

Construction/Decommission

424072

Type of Well

Construction

Resource Protection

Decommission ORIGINAL INSTALLATION Notice

Geotechnical Soil Boring

of Intent Number _____

Property Owner Port of Seattle

Site Address 2001 Garfield St.

Consulting Firm Kennedy/Jenks Consultants-Federal Way

City Seattle County 17-King

Unique Ecology Well ID

Tag No. BHA-209

Location 1/4 NW 1/4 NE Sec 26 Twn 25N R 3E or WWM

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

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

still Required) Long Deg _____ Long Min/Sec _____

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

Tax Parcel No. _____

Driller Trainee Name (Print) Elijah Floyd

Cased or Uncased Diameter 3 1/2" Static Level 9'

Driller/Trainee Signature *Elijah Floyd*

Work/Decommission Start Date 7/27/2011

Driller/Trainee License No. 2842

Work/Decommission End Date 7/28/2011

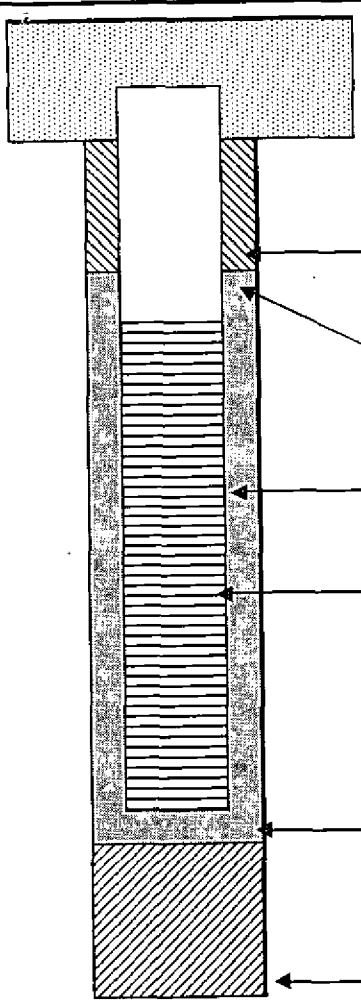
If trainee, licensed driller's

Signature and License No. _____

Construction/Design

Well Data W11-446

Formation Description



Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)	1" X 10	
Material	PVC	
Backfill	N/A	FT
Type	N/A	
Seal	6'	
Material	Bentonite chips	
Gravel Pack	7'	FT
Material	2/12 sand	
Screen (dia x dep)	1" x 5'	
Slot Size	.010	
Material	PVC Pre Pack	
Well Depth	15'	FT
Backfill	N/A	
Material	N/A	
Total Hole Depth	15'	FT

0 - 9' FT
silt, sands, 40%, small gravels, Dry, light brown

0 - 15' FT
sands 60%, small gravels sea shells, Dredge Fill, wet.



Scale 1" = _____

Page _____ of _____

ECY 050-12 (Rev 2011)

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE10695

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well
 Resource Protection
 Geotechnical Soil Boring

Consulting Firm Landau Associates

Property Owner Port of Seattle
 Site Address 2001 W Garfield St
 City Seattle County King

Unique Ecology Well ID Tag No. B10-905

Location 1/4 NW 1/4 SE Sec 26 TWN 25N R 3E of WWM EWM

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

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

Driller Trainee Name (Print) Kasey Goble
 Driller/Trainee Signature [Signature]
 Driller/Trainee License No. 2501

Tax Parcel No. _____

Cased or Uncased Diameter 2 1/4" Static Level 4'

Work/Decommission Start Date 12/1/14

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

Work/Decommission End Date 12/1/14

Construction/Design

Well Data 103-14-1518

Formation Description

	Concrete Surface Seal Depth <u>1</u> FT	0 - <u>2</u> FT	
	Blank Casing (dia x dep) <u>3/4" x 2'</u>	Material <u>PVC</u>	Fill
	Backfill <u>1/2</u> FT	Type _____	
	Seal <u>BENTONITE CHIPS</u>	Material _____	0 <u>2</u> - <u>12</u> FT
	Gravel Pack <u>10 1/2</u> FT	Material <u>2/12 SAND</u>	DARK BROWN & GREY SILTY SAND -
	Screen (dia x dep) <u>3/4" x 10'</u>	Slot Size <u>010</u>	0 - _____ FT
	Material <u>PVC PRE PACK</u>	Well Depth <u>12</u> FT	
	Backfill _____	Material _____	
	Total Hole Depth <u>12</u> FT		
	<p>RECEIVED</p> <p>JAN 20 2015</p> <p>DEPT OF ECOLOGY NWRO - WR</p>		

Scale 1" = _____

Page _____ of _____

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RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE10695

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Landau Associates

Property Owner Port of Seattle
Site Address 2001 W Garfield St
City Seattle County King

Unique Ecology Well ID Tag No. B10-903

Location 1/4 NW 1/4 SE Sec 26 TWN 25N R 3E or WWM EWM

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

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

Driller Trainee Name (Print) Kasey Goble
Driller/Trainee Signature [Signature]
Driller/Trainee License No. 2501

Tax Parcel No. _____

Cased or Uncased Diameter 2 1/4" Static Level 4'

Work/Decommission Start Date 12/1/14

Work/Decommission End Date 12/1/14

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

Construction/Design

Well Data 103-14-1518

Formation Description

	Concrete Surface Seal Depth	<u>1</u> FT	<u>0 - 2</u> FT
	Blank Casing (dia x dep)	<u>3/4" x 2'</u>	<u>Fill</u>
	Material	<u>PVC</u>	
	Backfill	<u>1/2</u> FT	<u>0 2 - 12</u> FT
	Type	_____	<u>DARK BROWN & GREY SILTY SAND -</u>
	Seal	<u>BENTONITE CHIPS</u>	
	Material	_____	
	Gravel Pack	<u>10 1/2</u> FT	
	Material	<u>2 1/2 SAND</u>	
	Screen (dia x dep)	<u>3/4" x 10'</u>	<u>0 -</u> FT
Slot Size	<u>010</u>		
Material	<u>PVC PRE PACK</u>		
Well Depth	<u>12</u> FT		
Backfill	_____		
Material	_____		
Total Hole Depth	<u>12</u> FT		

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JAN 20 2015
DEPT OF ECOLOGY
NWRO - WR

Scale 1" = _____

Page _____ of _____

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No.

RE10695

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Landau Associates

Property Owner

Port of Seattle

Site Address

2001 W Garfield St

City

Seattle

County

King

Unique Ecology Well ID

Tag No. BID-906

Location

1/4 NW 1/4 SE Sec 26 TWN 25N R 3E or WWM

EWM

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

Lat/Long (s,t,r

Lat Deg x

Lat Min/Sec x

still Required) Long Deg x

Long Min/Sec x

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

Tax Parcel No. _____

Driller

Trainee Name (Print)

Kasey Goble

Driller/Trainee Signature

[Signature]

Cased or Uncased Diameter

2 1/4"

Static Level

4'

Driller/Trainee License No.

2501

Work/Decommission Start Date

12/1/14

If trainee, licensed driller's

Signature and License No. _____

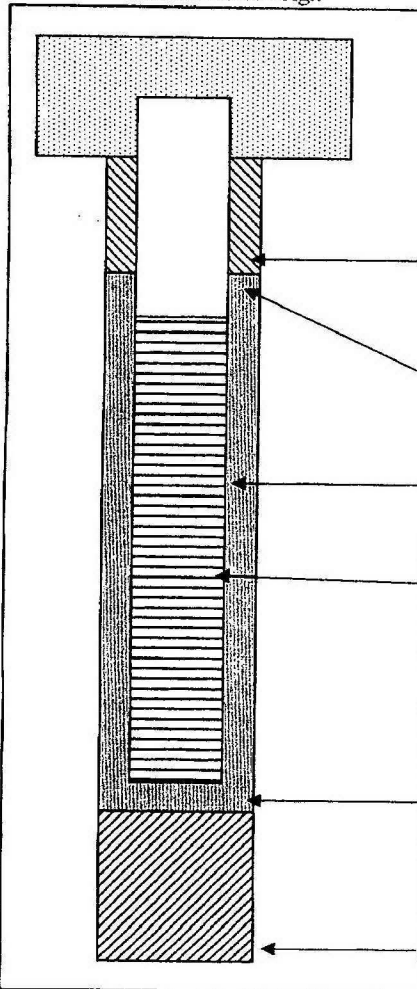
Work/Decommission End Date

12/1/14

Construction/Design

Well Data 103-14-1518

Formation Description



Concrete Surface Seal Depth 1 FT

Blank Casing (dia x dep) 3/4" x 3

Material PVC

Backfill 1 FT

Type —

Seal BENTONITE

Material CHIPS

Gravel Pack 6 FT

Material 2/12 SAND

Screen (dia x dep) 3/4" x 5

Slot Size 010

Material PVC PER PACK

Well Depth 8 FT

Backfill —

Material —

Total Hole Depth 8 FT

0 - 2 FT

FILL

0 2 - 8 FT

DARK BROWN & GREY SANDY SILT

0 - FT

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NWRO - WR

Scale 1" = _____

Page _____ of _____

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. RE10695

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Landau Associates

Property Owner Port of Seattle
Site Address 2001 W Garfield St
City Seattle County King

Unique Ecology Well ID Tag No. B10 - 904

Location 1/4 NW 1/4 SE Sec 26 TWN 25N R 3E or WWM EWM

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

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

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

Tax Parcel No. _____

Driller Trainee Name (Print) Kasey Goble
Driller/Trainee Signature [Signature]
Driller/Trainee License No. 2501

Cased or Uncased Diameter 2 1/4" Static Level 4'

Work/Decommission Start Date 12/1/14

Work/Decommission End Date 12/1/14

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

Construction/Design

Well Data 103-14-1518

Formation Description

	Concrete Surface Seal Depth	<u>1</u> FT	<u>0 - 2</u> FT
	Blank Casing (dia x dep)	<u>3/4" x 2'</u>	<u>Fill</u>
	Material	<u>PVC</u>	
	Backfill	<u>1/2</u> FT	
	Type	_____	
	Seal	<u>BENTONITE</u>	<u>0 2 - 12</u> FT
	Material	<u>CHIPS</u>	<u>DARK BROWN & GREY SILTY SAND -</u>
	Gravel Pack	<u>10 1/2</u> FT	
	Material	<u>2/12 SAND</u>	
	Screen (dia x dep)	<u>3/4" x 10'</u>	<u>0 -</u> FT
Slot Size	<u>010</u>		
Material	<u>PVC PRE PACK</u>		
Well Depth	<u>12</u> FT		
Backfill	_____		
Material	_____		
Total Hole Depth	<u>12</u> FT		

RECEIVED

JAN 20 2015

DEPT OF ECOLOGY
NWRO - WR

Scale 1" = _____

Page _____ of _____

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

**Attachment C – Variance Request Approval Letter from Ecology
dated July 26, 2024**



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Region Office
PO Box 330316, Shoreline, WA 98133-9716 • 206-594-0000

July 26, 2024

Port of Seattle
c/o Jamalyn Green, Project Manager
AECOM Technical Services, Inc.
1111 3rd Avenue, Suite 1600
Seattle, WA 98101

Email: jamalyn.green@aecom.com

RE: Variance request from Washington Administrative Code (WAC) 173-160-460. The property address is 2001 W Garfield Street, Seattle, in the SW ¼ SE ¼ of Section 23, Township 25 North, Range 03 East, W.M., on Tax Parcel 7666201530 in King County.

Dear Jamalyn Green:

The Department of Ecology (Ecology) received your 8 variance requests via email June 21, 2024. Each request represents one well at the same site. They are compiled into one request and the decision for each presented in tabulated form below.

The request states strict compliance with WAC 173-160-460, which details decommissioning standards for resource protection wells, is impractical for various reasons. In every case, access is cited as the reason for the variance, and you propose filling the casing with 100% bentonite chips from the bottom of the well to land/pavement surface.

The variance you requested to WAC 173-160-460 for each well, and the resulting decision for each request, is shown in the following table, in accordance with WAC 173-160-106.

Well Name	Reason for request	Variance Status	Reason for denial
SHFLL_W2	Access restricted	Denied	Access gained by concrete block removal
SHFLL_W3	Access restricted	Denied	Access gained by concrete block removal
SHFLL_W4A	Access restricted	Granted	
SHFLL_W4B	Access restricted	Granted	
SHFLL_W4C	Access restricted	Denied	Access gained by concrete block removal
SHFLL_W7A	Access restricted	Granted	
SHFLL_W7B	Access restricted	Granted	
SHFLL_W7C	Access restricted	Granted	

Port of Seattle
c/o Jamalyn Green, Project Manager
AECOM Technical Services, Inc.
Variance

Those variances granted to decommission the wells by filling with 100% bentonite chips **expire December 31, 2024**, and are granted only for decommissioning of the resource protection wells in the manner and location referenced in the variance request. Any licensed resource protection well driller can execute the decommissioning of the wells according to the variance request, subject to the provisions listed below:

1. A “Notice of Intent to Decommission a Well” and fees shall be submitted to Ecology at PO Box 47611, Olympia, WA, 98504-7611.
2. All other minimum construction standards found in WAC 173-160 shall be followed to prevent degradation of the groundwater resource.
3. A well report containing the details required by WAC 173-160-141 shall be submitted to Ecology at PO Box 330316, Shoreline, WA 98133, within 30 days of completion of work on the well. Attach a copy of this variance to the well report.
4. With the exception of the specific provisions set forth (above) in this variance, all federal, state, and local requirements shall apply.
5. This variance **expires December 31, 2024**. After this date, approval of a new request for variance or an extension must be requested in writing for the work proposed.

Your attention to these laws and regulations and cooperation with the Department of Ecology in this matter is appreciated. Please contact Noel S. Philip at (206) 594-0195 or at noel.philip@ecy.wa.gov if you have any questions concerning this variance.

Your right to appeal

You have a right to appeal this decision to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt. The appeal process is governed by chapter 43.21B RCW and chapter 371-08 WAC. “Date of receipt” is defined in RCW 43.21B.001(2).

To appeal, you must do all of the following within 30 days of the date of receipt of this decision:

- File your notice of appeal and a copy of this decision with the PCHB (see filing information below). “Filing” means actual receipt by the PCHB during regular business hours as defined in WAC 371-08-305 and -335. “Notice of appeal” is defined in WAC 371-08-340.
- Serve a copy of your notice of appeal and this decision on the Department of Ecology by mail, in person, or by email (see addresses below).

You must also comply with other applicable requirements in chapter 43.21B RCW and chapter 371-08 WAC.

Port of Seattle
c/o Jamalyn Green, Project Manager
AECOM Technical Services, Inc.
Variance

Filing an appeal

Filing with the PCHB

For the most current information regarding filing with the PCHB, visit: <https://eluh0.wa.gov/> or call: 360-664-9160.

Service on Ecology

Street Address:

Department of Ecology
Attn: Appeals Processing Desk
300 Desmond Drive SE
Lacey, WA 98503

Mailing Address:

Department of Ecology
Attn: Appeals Processing Desk
PO Box 47608
Olympia, WA 98504-7608

E-Mail Address:

ecologyappeals@ecy.wa.gov

More information

- **[Pollution Control Hearings Board Website](https://eluh0.wa.gov/)**
<https://eluh0.wa.gov/>
- **[Chapter 43.21B RCW – Environmental Hearings Office – Pollution Control Hearings Board](http://apps.leg.wa.gov/RCW/default.aspx?cite=43.21B)**
<http://apps.leg.wa.gov/RCW/default.aspx?cite=43.21B>
- **[Chapter 371-08 WAC – Practice And Procedure](http://apps.leg.wa.gov/WAC/default.aspx?cite=371-08)**
<http://apps.leg.wa.gov/WAC/default.aspx?cite=371-08>
- **[Chapter 34.05 RCW – Administrative Procedure Act](http://apps.leg.wa.gov/RCW/default.aspx?cite=34.05)**
<http://apps.leg.wa.gov/RCW/default.aspx?cite=34.05>
- **[Ecology's Laws, Rules & Rulemaking](https://www.ecology.wa.gov/About-us/How-we-operate/Laws-rules-rulemaking#ws)**
<https://www.ecology.wa.gov/About-us/How-we-operate/Laws-rules-rulemaking#ws>

Americans with Disabilities Act information

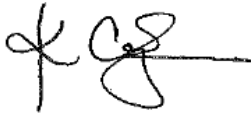
Accommodation Requests

To request ADA accommodation including materials in a format for the visually impaired, call Ecology at 360-407-7668 or visit <https://ecology.wa.gov/accessibility>. People with impaired hearing may call Washington Relay Service at 711. People with speech disability may call TTY at 877-833-6341.

Port of Seattle
c/o Jamalyn Green, Project Manager
AECOM Technical Services, Inc.
Variance

DATED this 26th day of July, 2024, at Shoreline, Washington.

Sincerely,

A handwritten signature in black ink, appearing to read 'K Cykler', with a horizontal line extending to the right.

Kasey Cykler
Section Manager
Water Resources Program
Northwest Region Office

ecc: Noel S. Philip, LHG, Well Construction Coordinator
Paul Kalina, AECOM
Jaylyn Buckley, Port of Seattle