

Brookside Deli & Gas 619
Auburn
CS ID 11973

UST 97447

Underground Storage Tank Site Check Report

**Brookside Deli and Gas - 619
32201 Auburn – Black Diamond Rd
Auburn, Washington**

November 11, 2010

Prepared For:



**WSCO Petroleum Corporation
2929 NW 29th Avenue
Portland, Oregon 97210-1705**

Prepared By:



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Executive Summary

White Shield Inc. (WSI) performed a Site Check and oversaw the excavation and disposal of approximately 24 tons (17 cubic yards) of petroleum-contaminated soil from a gasoline release at the Brookside Deli and Gas #619 site located at 32201 Kent – Black Diamond Road, Auburn, Washington. This work was performed for WSCO Petroleum of Portland, Oregon. The release occurred when a fuel distribution line was punctured during maintenance on the tank system's cathodic protection system. It was estimated that approximately 10 gallons of unleaded gasoline were released into the "tank pit". The tank system consists of three USTs, two USTs contain gasoline and one UST contains Diesel fuel.

The site check is required by Washington Administrative Code (WAC) 173-360. This report is prepared consistent with WAC 173-360 and the Washington State Department of Ecology (Ecology) "Guidance for Site Checks and Site Assessments for Underground Storage Tanks" (Ecology, 2003). It documents the activities that occurred at the site with regard to the excavation and disposal of soils contaminated because of the release.

The fuel distribution pipe from the regular unleaded gasoline UST was punctured during routine maintenance on the tank system's cathodic protection system. Before White Shield initially arrived at the site, the tank system was turned off and the leaking pipe repaired. White Shield oversaw the removal of approximately 24 tons (17 cubic yards) of soil from around the UST. This soil was transported to Regional Disposal Company for disposal at the Roosevelt Regional Landfill in Roosevelt, Washington.

Following excavation of as much soil that could be safely removed without compromising the integrity of the remaining tanks and tank system, soil samples were collected from:

- The base of the excavation around the perimeter of the tank at a depth of 7 to 11 feet below ground surface (bgs),
- The sidewalls of the excavation 4½ to 6 feet bgs, and
- The excavation stockpile.

Each sample was collected using appropriate methods for the analysis to be performed and placed into laboratory-provided collection jars. The samples were collected using the EPA Method 5035 protocol. Sample containers were sealed, labeled, and delivered to an on-site mobile laboratory operated by Libby Environmental Chemistry Laboratory of Olympia, Washington, a Washington State Department of Ecology accredited laboratory. Each sample was analyzed for:

- Gasoline Range Organics by NWTPH-Gx
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX) by EPA Method 8021B

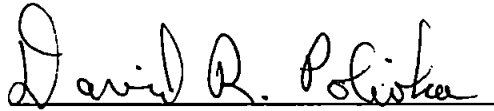
Eleven samples were analyzed. Analytical results of the samples collected from the tank excavation revealed the presence of petroleum hydrocarbons above the MTCA Method A Cleanup levels for benzene. The levels of toluene, ethylbenzene, and xylenes were all below the MTCA cleanup levels. The analytical results for total petroleum hydrocarbons in the gasoline range did not exceed the MTCA cleanup levels.

Confirmative
five
samples

Because WSCO Petroleum desired to re-open the fueling station, the excavation was backfilled. The backfill consisted of the imported clean pea-gravel fill material. The site was then graded in preparation

for repaving. This backfilling is considered a temporary measure until WSCO Petroleum determines what the remedial action for this site will be to address the remaining contamination.

It is recommended that WSCO Petroleum coordinate with the Washington State Department of Ecology and enter Ecology's voluntary cleanup program.



Dave Polivka, LG, LHG
Environmental Services Manager
Ecology Licensed/Registered Site Assessor

1.0 Introduction

White Shield, Inc. (WSI) has prepared this underground storage tank (UST) site check report to document activities that occurred during the repair of an underground fuel distribution line from an unleaded gasoline storage tank at the Brookside Deli and Gas #619 Site located at 32201 Kent – Black Diamond Road, Auburn, Washington (Figure 1). This report was prepared for WSCO Petroleum Corporation and is being provided to the Washington State Department of Ecology to satisfy WAC 173-360. The UST site check activities were completed in accordance with the documents identified below published by the Washington State Department of Ecology (Ecology). In addition, the Ecology UST Site Check/Assessment Checklist is presented in Appendix A.

Relevant Publications:

- Guidance for Site Checks and Site Assessments for Underground Storage Tanks (Ecology, 2003);
- The Model Toxics Control Act Cleanup Regulation, Chapter 173-340 WAC

On September 8, 2010, White Shield was notified that a fuel distribution line had been punctured by a contractor working on the cathodic protection system for the 12,000 gallon unleaded gasoline tank at the site.

It was reported that the tank system was shut down immediately upon discovery of the leak and approximately 10 gallons of gasoline were released into the backfill of the tank. The release was reported by telephone to Mr. Luis Buen Abad at the Department of Ecology Northwest Regional Office on September 8, 2010.

The project scope was:

- To provide oversight of the removal of contaminated backfill
- To sample the soil that was removed for disposal,
- To sample the soil remaining in the excavation, and
- To prepare this report.

1.1 Site Location and Description

The subject property is located in King County, Washington, at 32201 Kent - Black Diamond Road in the City of Auburn. The property consists of one parcel, Parcel 1821069085 (Figure 2). This area consists of mixed commercial and residential properties. According to the King County Department of Assessments, the parcel is 0.94 acres in size and there is one building built in 1987 located on the site. The legal description for the parcel reads:

Parcel 1821069085

That portion of the Northeast Quarter lying Easterly of Thomas Road Southeast, Southwesterly of Kent-Black Diamond Road (SSH #5-B) and Northerly of Auburn-Black Diamond Road Cutoff.

The King County Department of Assessments records show that the subject property is currently owned by Min Sung Ki.

2.0 Site Conditions

The Subject Site contains one major structure. The structure is occupied by a convenience store, a deli/restaurant, and a dog grooming business. According to a report obtained from the Washington State Department of Ecology UST database (Appendix B), three UST's are present at the subject site. These tanks are reported to have been installed in June 1987 at the time the building at the site was constructed. The database indicates that the tanks contain gasoline. However, it was observed that there are two gasoline tanks and one diesel tank. The tanks are single wall steel in construction and are protected from corrosion by a cathodic protection system.

The following discussion of the physical, geologic and hydrogeologic settings of the subject property is based on information obtained from the Washington State Department of Ecology Well Log Database (Ecology, 2010), the Washington State Department of Natural Resources (DNR, 1991), and from the Natural Resource Conservation Service (NRCS) "Soil Survey of King County Area, Washington" (NRCS, 1973).

2.1 Topography

The subject property is situated at an elevation of approximately 390 feet (WGS84 datum). The property in the area is generally flat with a slight local slope to the south-southwest. The regional slope is toward the Green River, which is approximately two miles to the south (Figure 3).

2.2 Geology and Hydrogeology

The subject site is located in the Puget Sound Lowland physiographic province. The Puget Sound lowland is a broad, low-lying region situated between the Cascade Range to the east and the Olympic Mountains and Willapa Hills to the west. It owes its present-day geomorphic features to the last continental glacier that covered the region approximately 10,000 years ago.

As the glacier receded, large quantities of meltwater were discharged from it. The meltwater sorted material in its path and left very gravelly and sandy sediments that range in thickness from 4 or 5 feet to 80 or 100 feet. In King County, the Natural Resource Conservation Service identifies this gravelly and sandy sediment as the Everett Soil Series (NRCS, 1973). The subject site is underlain by the gravel and sand Everett Soil Series.

It appears that the depth to water is highly variable in the region. According to well logs obtained from the Washington State Department of Ecology Well Log Database (Appendix G), the first encounter of water in the region is between 9 and 100 feet below the ground surface (bgs) with most first occurrences of water at greater than 50 feet bgs. Static groundwater level is typically between the surface and 62 feet below ground surface (bgs) with most of the levels less than 25 feet bgs. At the subject site, borings drilled by Clayton Environmental Services in 2002 and by SECOR in 1997 did not encounter water to a depth of 25 feet bgs. Based upon the surface topography, the groundwater would be expected to flow in a south-southwest direction.

2.3 Soil Classification

According to the NRCS, the soils beneath the subject site are the Everett Gravelly Sandy Loam to depths of 6 feet or more. The soil is considered "excessively drained" with a low available water capacity.

3.0 Contaminated Soil Excavation

On September 8, 2010, White Shield was notified that a fuel distribution line had been punctured by a contractor working on the cathodic protection system for the 12,000 gallon unleaded gasoline tank (Figure 4). White Shield Inc. (WSI) responded to the site and met with Mr. John Phimister of WSCO Petroleum and with the certified tank contractor, Mr. Robert Montgomery. Before White Shield arrived at the site, Mr. Montgomery had repaired the distribution line and the station was operating. White Shield researched the depth to water as well as the information that was in the Ecology UST database regarding the age and construction of the tanks. Because the volume of gasoline released was small (approximately 10 gallons), it was anticipated that the resulting contamination would be confined to the backfill material surrounding the UST. In addition, because water is greater than 25 feet bgs it was decided that excavation of the soils surrounding the tank would occur.

On September 21 and 22, 2010, White Shield oversaw the excavation and disposal of approximately 24 tons (17 cubic yards) of contaminated soil. This soil was excavated from around the 12,000-gallon gasoline storage tank using a vacuum knife excavator operated by Bravo Environmental of Kenmore Washington. A vacuum knife was used because of the underground piping and the proximity of the other tanks at the site (Figure 4). The excavated soils were placed on plastic adjacent to the excavation until they could be sampled and disposal options determined.

Soil was excavated from the west end of the 12,000-gallon tank near where the distribution pipe was punctured. The excavation was approximately 10 feet by 10 feet in size and approximately 7 to 9 feet deep. Excavation was performed until it was no longer considered safe due to potential collapse of the excavation sidewalls and the potential to compromise the integrity of the neighboring tanks. Upon reaching the limits of the excavation, samples were collected for analysis. Because not all of the contaminated soils could be removed from the excavation, the purpose of the sampling was to determine the levels of the contamination remaining in the ground. In addition, a hand auger was used to bore to a depth of 10½ feet bgs. This is estimated to be the base of the “tank pit”. A sample was collected at this depth and at a depth of 11 feet bgs, which is estimated to be in the native soil under the tank. Because of the gravelly nature of the soil, it was not possible to hand auger any deeper.

4.0 Soil Sampling

4.1 Sample Collection

Following excavation of as much soil that was safely and logistically feasible at the site, soil samples were collected from:

- The base of the excavation around the perimeter of the tank at 7 to 11 feet below ground surface (bgs),
- The sidewalls of the excavation 4½ to 6 feet bgs, and
- The excavation stockpile.

Soil sampling and analytical reporting for this project were based on the current MTCA UST site assessment and soil sampling guidelines and on the professional judgment of the Site Assessor.

During the soil sampling activities, several field-screening techniques were utilized:

- Olfactory Observations
- Visual Observations
- Organic Vapor Analyzer (OVA)

4.2 Sampling Methods

Sampling protocol was derived from the “Guidance for Site Checks and Site Assessments for Underground Storage Tanks” (Ecology, 2003).

Each sample was collected using appropriate methods for the analysis to be performed and placed into laboratory-provided collection jars. The samples were collected using the EPA Method 5035 protocol. Sample containers were sealed, labeled, and delivered to an on-site mobile laboratory operated by Libby Environmental Chemistry Laboratory of Olympia, Washington, a Washington State Department of Ecology accredited laboratory. Each sample was analyzed for:

- Gasoline Range Organics by NWTPH-Gx
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX) by EPA Method 8021B

Figure 4 presents the locations of the samples. Appendix D presents photographs of the sample locations. The material removed from the excavation consisted of silty sand.

4.3 Sample Results

Table 1 presents the results of the soils sampling. Appendix E presents the laboratory data sheets.

4.3.1 Tank Excavation Samples

Analytical results of the samples collected from the tank excavation revealed the presence of petroleum hydrocarbons above the MTCA Method A Cleanup level of 0.03 mg/kg for benzene (Table 1). The levels of toluene, ethylbenzene, and xylenes were all below the MTCA cleanup levels. The analytical results for total petroleum hydrocarbons in the gasoline range did not exceed the MTCA cleanup level of 30 mg/kg for soils containing benzene.

4.3.2 Stockpile Samples

Approximately 17 cubic yards (24 tons) of soil were stockpiled from the tank excavation. As required by the Washington State Department of Ecology, these soils were sampled following the Washington State Department of Ecology guidance (Ecology, 2003). Three samples were collected from the stockpile (Samples SP-1 through SP-3; Table 1; Figure 4) and analyzed for the same analytes as the excavation samples. Analytical results revealed both benzene and TPH gasoline above the MTCA cleanup levels.

5.0 Excavation Backfilling and Site Restoration

Because stockpile samples contained petroleum contamination above the MTCA cleanup levels, it was transported to the Regional Disposal Company’s transfer station in Seattle. From the transfer station, it was transported to the Roosevelt Regional Landfill in Roosevelt, Washington. The bills of lading from the disposal are presented in Appendix F. Because WSCO petroleum desired to re-open the fueling station, the excavation was backfilled. The backfill consisted of the imported clean pea-gravel fill material. The site was then graded in preparation for repaving. This backfilling is considered a temporary measure until WSCO Petroleum determines what the remedial action for this site will be to address the remaining contamination. Options may include some type of enhanced natural attenuation or in-situ chemical oxidation.

6.0 Summary and Recommendations

White Shield Inc. (WSI) oversaw the excavation and disposal of approximately 24 tons (17 cubic yards of petroleum-contaminated soil from a gasoline release at the Brookside Deli and Gas #619 site located at 32201 Kent – Black Diamond Road, Auburn, Washington. This work was performed for WSCO Petroleum of Portland, Oregon. The release occurred when a fuel distribution line was punctured during maintenance on the tank systems cathodic protection system. It was estimated that approximately 10 gallons of unleaded gasoline were released into the “tank pit”. The site check is required by Washington Administrative Code (WAC) 173-360.

Contaminated soil was removed from around the west end of the 12,000-gallon gasoline tank at the site with a vacuum knife excavator and transported to the Regional Disposal Company for disposal. Soil samples collected from the excavation revealed that benzene remained in the soils above the MTCA Method A cleanup levels. Because of this, additional remedial actions are being planned. Because WSCO Petroleum does not want to decommission the tank system, those remedial actions may include treatment of remediation of the soils in place.

It is recommended that WSCO coordinate with the Washington State Department of Ecology and enter Ecology’s voluntary cleanup program.

7.0 Standard Limitations

This report has been prepared to document the activities that occurred during partial remediation of a fuel release at 32201 Kent – Black Diamond Rd, in Auburn, Washington. The findings and conclusions documented in this report have been prepared for the specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area. No warranty, expressed or implied, is made. This report is for the exclusive use of WSCO Petroleum Corporation and/or its representatives

If new information is developed in future site work (which may include excavations, additional borings, or other studies), White Shield Inc. should be contacted to re-evaluate the interpretations in this report, and to provide amendments as required.

8.0 References

Ecology, 2003, *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*, Washington State Department of Ecology, Revised April 2003, 46p.

Ecology, 2010, *Washington State Department of Ecology On-line Well Log Database*
<http://apps.ecy.wa.gov/welllog/>

NRCS, 1973, *Soil Survey of King County Area, Washington*, United States Department of the Agriculture - Natural Resource Conservation Service (formerly Soil Conservation Service), November 1973.

DNR, 2010, *Geology of Washington – Puget Lowlands*, Washington State Department of Natural Resources website:
<http://www.dnr.wa.gov/ResearchScience/Topics/GeologyofWashington/Pages/lowland.aspx>

Sample Location	Sample Number	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)
Base of excavation							
	NB-7		0.13	0.33	nd	0.29	nd
	WB-9		0.4	1.31	0.15	1.07	14
	SB-10.5		0.24	0.5	nd	0.43	13
	SB-11		0.17	0.52	0.07	0.46	16
Sidewalls							
	NSW-5		0.03	nd	nd	0.18	nd
	NSW-6		0.17	0.43	nd	0.35	nd
	WSW-4.5		nd	0.1	nd	0.2	39
	SSW-5		nd	0.13	nd	0.15	nd
Stockpile							
	SP-1		0.23	0.46	0.42	4.2	135
	SP-2		0.61	0.51	nd	1.3	41
	SP-3		1.09	0.2	0.07	0.6	14
	SP-3 Dup		1.08	0.21	0.06	0.68	15
MTCA Method A Cleanup Level			0.03	7	6	9	30/100

nd- not detected



Table 1

Soil Sample Results

Brookside Deli and Gas #619
32201 Auburn – Black Diamond Road
Auburn, Washington

JOB No.

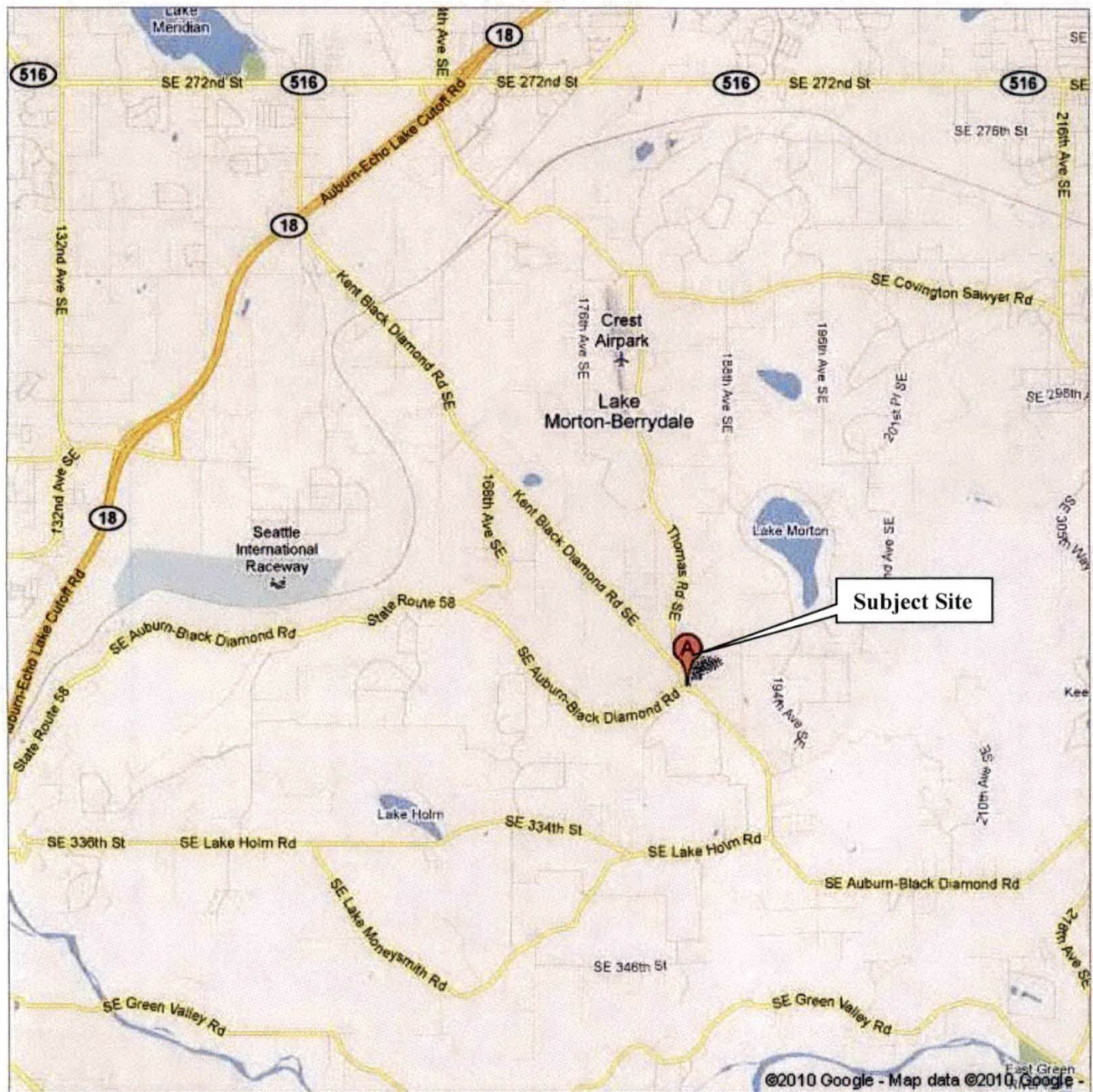
210-038-01

DATE

11/10/2010

SHEET

OF



23412 68TH AVE S.
KENT, WA.
98032
Phone: 253-867-6070
Fax: 253-867-6075

Figure 1

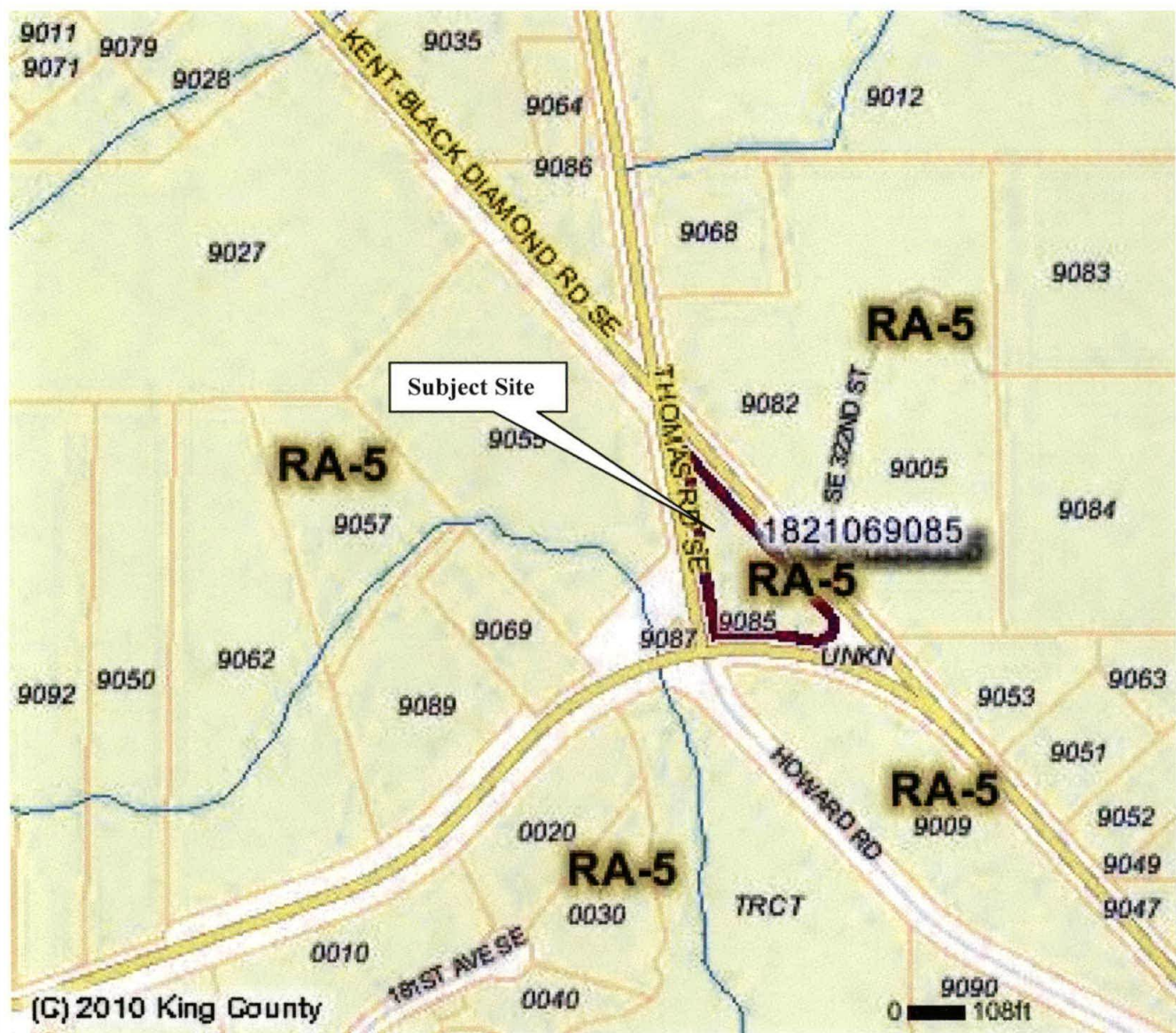
Location Map
Brookside Deli and Gas #619
32201 Auburn – Black Diamond Road
Auburn, Washington

JOB No.
210-038-01

DATE
11/11/2010

SHEET

OF



23412 68TH AVE S.
KENT, WA.
98032
Phone: 253-867-6070
Fax: 253-867-6075

Figure 2

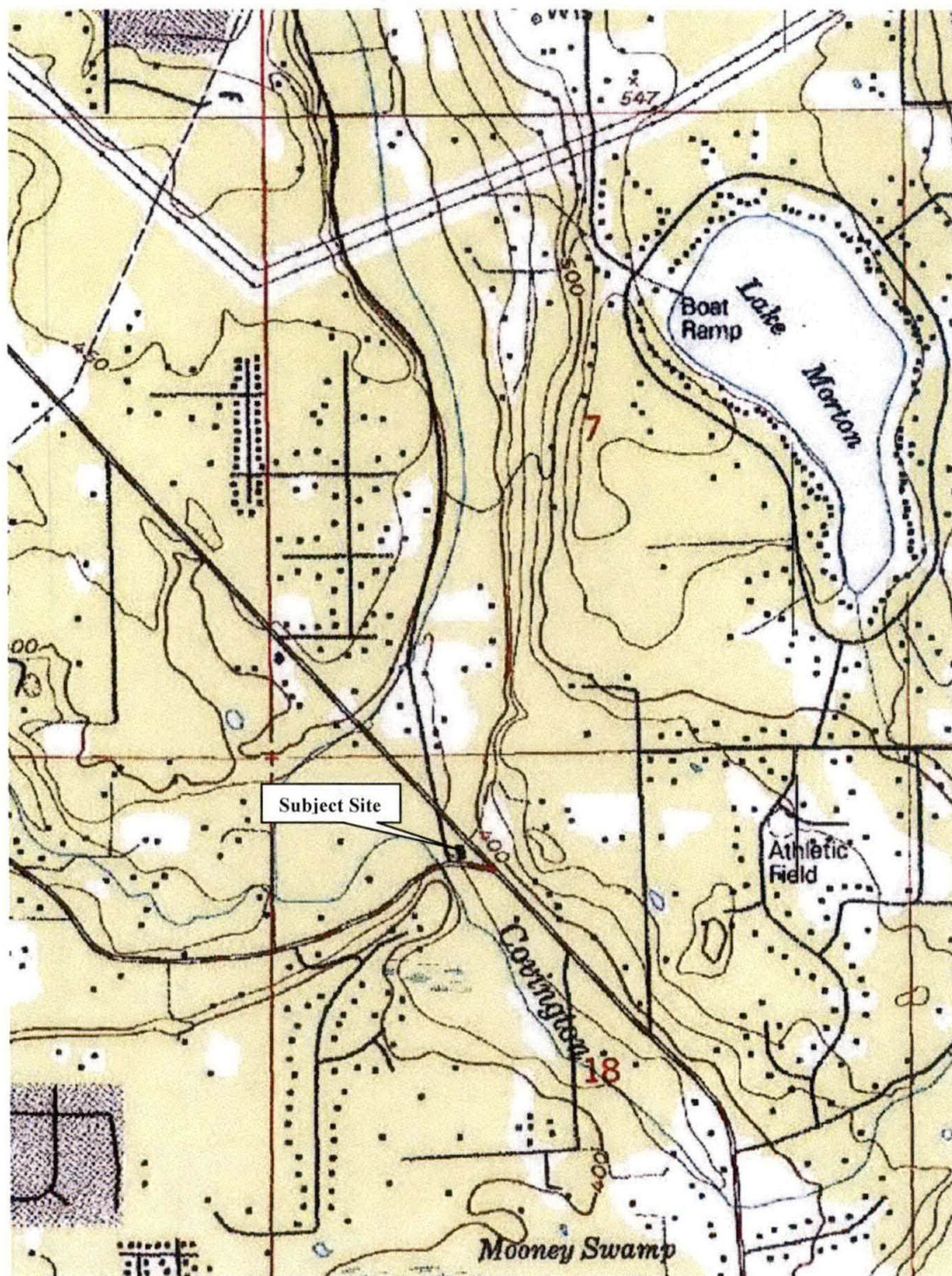
Parcel Map
Brookside Deli and Gas #619
32201 Auburn – Black Diamond Road
Auburn, Washington

JOB No
210-038-01

DATE
11/11/2010

SHEET

OF



23412 68TH AVE S.
KENT, WA.
98032
Phone: 253-867-6070
Fax: 253-867-6075

Figure 3

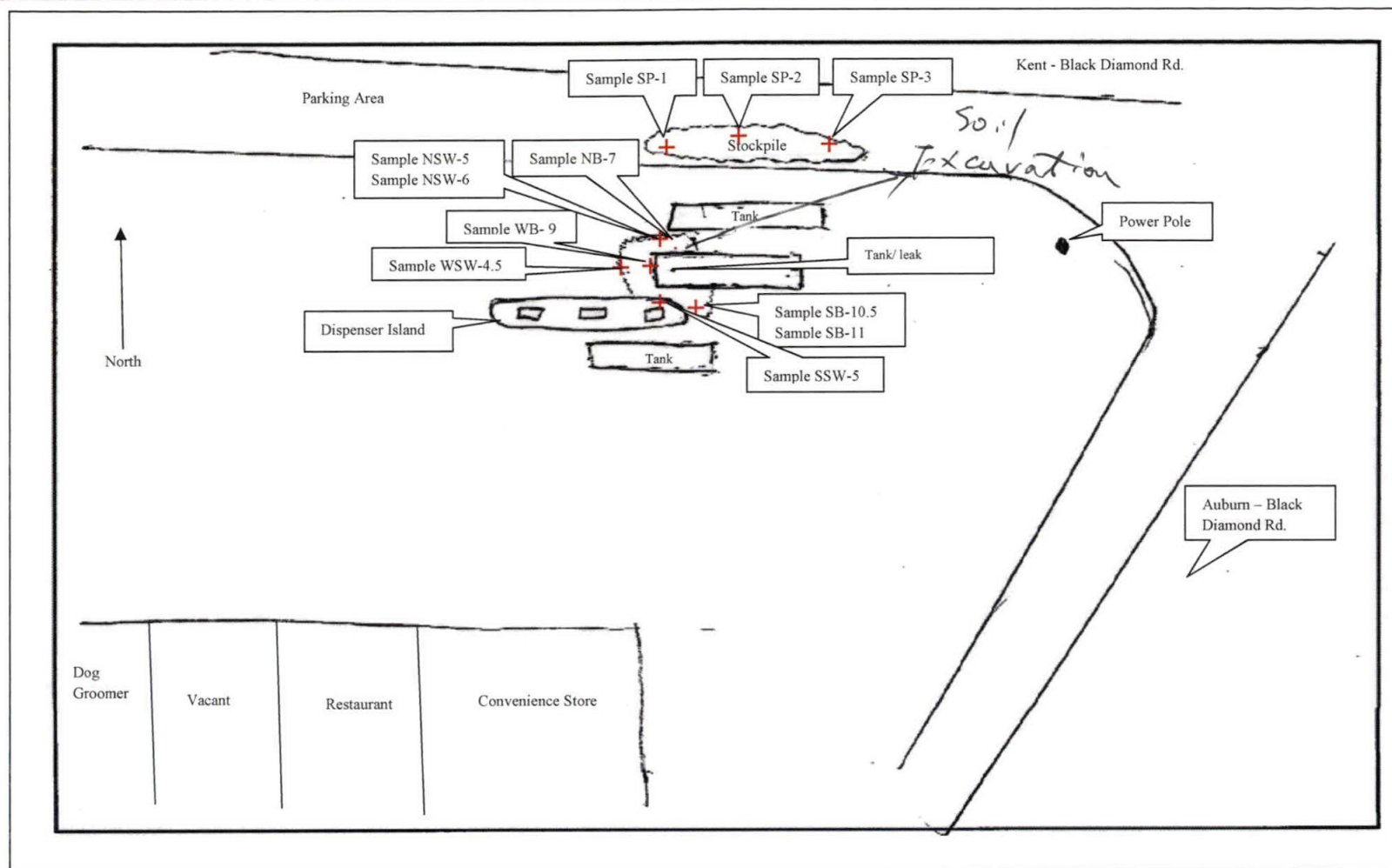
Topographic Map
Brookside Deli and Gas #619
32201 Auburn – Black Diamond Road
Auburn, Washington

JOB No.
210-038-01

DATE
11/11/2010

SHEET

OF



Not to Scale



Figure 4

Site Map

Brookside Deli and Gas #619
32201 Auburn - Black Diamond Road
Auburn, Washington

JOB No.

210-038-01

DATE

11/11/2010

SHEET

OF

APPENDIX A

UST SITE ASSESSMENT CHECKLIST



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY

Site #: _____

Facility Site ID #: _____

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by ICC or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
PO Box 47655
Olympia WA 98504-7655

SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): _____ 97447

Site/Business Name: Brookside Deli & Gas

Site Address: 32201 Kent- Black Diamond Rd Telephone: (503) 243-2929

Auburn WA 98002
City State Zip Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
No Lead	12,000 Gallons	Unleaded Gasoline
Premium NL	8,000	Unleaded Gasoline
Regular	10,000	Diesel Fuel

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

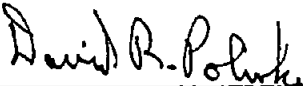
- ☐ Investigate suspected release due to on-site environmental contamination.
- ☐ Investigate suspected release due to off-site environmental contamination.
- ☐ Extend temporary closure of UST system for more than 12 months.
- ☐ UST system undergoing change-in-service.
- ☐ UST system permanently closed with tank removed.
- ☐ Abandoned tank containing product.
- ☐ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ☒ Other (describe): Repair of punctured distribution pipe

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	YES	NO
1. The location of the UST site is shown on a vicinity map.	X	
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	X	
3. A summary of UST system data is provided. (see Section 3.1.)	X	
4. The soils characteristics at the UST site are described. (see Section 5.2)	X	
5. Is there any apparent groundwater in the tank excavation?		X
6. A brief description of the surrounding land use is provided. (see Section 3.1)	X	
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	X	
8. A sketch or sketches showing the following items is provided:	X	
- location and ID number for all field samples collected	X	
- groundwater samples distinguished from soil samples (if applicable)	NA	
- samples collected from stockpiled excavated soil	X	
- tank and piping locations and limits of excavation pit	X	
- adjacent structures and streets	X	
- approximate locations of any on-site and nearby utilities	X	
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	NA	
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	X	
11. Any factors that may have compromised the quality of the data or validity of the results are described.	NA	
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.	X	

SITE ASSESSOR INFORMATION

David R. Polivka	White Shield Inc.
Person registered with Ecology	Firm Affiliated with
Business Address: 23412 68th Avenue S	Telephone: (253) 867-6070
Kent	98032
City	State Zip Code
WA	
I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.	
11/11/2010	
Date	Signature of Person Registered with Ecology

If you need this publication in an alternate format, please contact Toxics Cleanup Program at (360) 407-7170. For persons with a speech or hearing impairment call 711 for relay service or 800-833-6388 for TTY.

APPENDIX B

ECOLOGY UNDERGROUND STORAGE TANK DATABASE REPORT

King COUNTY

Storage Tank: NO LEAD

Tank ID: 15353

SITE INFORMATION

Site ID: 97447 Site Tag #: A0697
BROOKSIDE DELI & GAS 619
32201 AUBURN-BLACK DIAMOND RD
AUBURN, WA 98002-
Phone #: (503) 243-2929 UBI: 600-417-377 001 0025

FACILITY SITE INFORMATION

Facility Site ID: 93565538
BROOKSIDE DELI & GAS 619
32201 AUBURN BLACK DIAMOND RD
AUBURN, WA 98092
Lat/Long 47° 18' 45.4" / -122° 5' 45.1°

TANK INFORMATION

TANK NAME: NO LEAD

Status : Operational

Upgrade DT: 2/5/1998

Install Date
June 1, 1987

Status Date
August 6, 1996

Permit Expiration Date
August 31, 2011

Permanently Closed Date
Tank Open

CAPACITY RANGE : 10,000 to 19,999 Gallons

PUMP SYSTEM : Pressurized System

SPILL PREVENTION : Spill Bucket/Spill Box

OVERFILL PREVENTION : Overfill Alarm

COMPARTMENT DETAILS

TANK

MATERIAL : Coated Steel
CONSTRUCTION : Single Wall Tank
PRIMARY REL DETECT : Automatic Tank Gauging
SECONDARY REL DETECT :
TIGHTNESS TEST :
CORROSION PROTECTION : Sacrificial Anode

PIPING

Fiberglass
Single Wall Pipe
Automatic Line Leak Detection

Annual
Corrosion Resistant

Compartment #

1

SUBSTANCE STORED

Alcohol Blend Gasoline

SUBSTANCE USED

Motor Fuel for Vehicles

ACTUAL CAPACITY

Storage Tank: PREMIUM NL

Tank ID: 1457

SITE INFORMATION

Site ID: 97447 Site Tag #: A0697
BROOKSIDE DELI & GAS 619
32201 AUBURN-BLACK DIAMOND RD
AUBURN, WA 98002-
Phone #: (503) 243-2929 UBI: 600-417-377 001 0025

FACILITY SITE INFORMATION

Facility Site ID: 93565538
BROOKSIDE DELI & GAS 619
32201 AUBURN BLACK DIAMOND RD
AUBURN, WA 98092
Lat/Long 47° 18' 45.4" / -122° 5' 45.1°

TANK INFORMATION

TANK NAME: PREMIUM NL

Status : Operational

Upgrade DT: 2/5/1998

Install Date
June 1, 1987

Status Date
August 6, 1996

Permit Expiration Date
August 31, 2011

Permanently Closed Date
Tank Open

CAPACITY RANGE : 5,000 to 9,999 Gallons

PUMP SYSTEM : Pressurized System

SPILL PREVENTION : Spill Bucket/Spill Box

OVERFILL PREVENTION : Overfill Alarm

COMPARTMENT DETAILS

TANK

MATERIAL : Coated Steel
CONSTRUCTION : Single Wall Tank
PRIMARY REL DETECT : Automatic Tank Gauging
SECONDARY REL DETECT :
TIGHTNESS TEST :
CORROSION PROTECTION : Sacrificial Anode

PIPING

Fiberglass
Single Wall Pipe
Automatic Line Leak Detection

Annual
Corrosion Resistant

Compartment #

1

SUBSTANCE STORED

Alcohol Blend Gasoline

SUBSTANCE USED

Motor Fuel for Vehicles

ACTUAL CAPACITY

King COUNTY

Storage Tank: REGULAR

Tank ID: 29349

SITE INFORMATION

Site ID: 97447 Site Tag #: A0697
BROOKSIDE DELI & GAS 619
32201 AUBURN-BLACK DIAMOND RD
AUBURN, WA 98002-
Phone #: (503) 243-2929 UBI: 600-417-377 001 0025

FACILITY SITE INFORMATION

Facility Site ID: 93565538
BROOKSIDE DELI & GAS 619
32201 AUBURN BLACK DIAMOND RD
AUBURN, WA 98092
Lat/Long 47° 18' 45.4" / -122° 5' 45.1"

TANK INFORMATION

TANK NAME: REGULAR

Status : Operational

Upgrade DT: 2/5/1998

Install Date
June 1, 1987

Status Date
August 6, 1996

Permit Expiration Date
August 31, 2011

Permanently Closed Date
Tank Open

CAPACITY RANGE : 10,000 to 19,999 Gallons

PUMP SYSTEM : Pressurized System

SPILL PREVENTION : Spill Bucket/Spill Box

OVERFILL PREVENTION : Overfill Alarm

COMPARTMENT DETAILS

TANK

PIPING

MATERIAL : Coated Steel
CONSTRUCTION : Single Wall Tank
PRIMARY REL DETECT : Automatic Tank Gauging
SECONDARY REL DETECT :
TIGHTNESS TEST :
CORROSION PROTECTION : Sacrificial Anode

Fiberglass
Single Wall Pipe
Automatic Line Leak Detection

Annual
Corrosion Resistant

Compartment

1

SUBSTANCE STORED

Alcohol Blend Gasoline

SUBSTANCE USED

Motor Fuel for Vehicles

ACTUAL CAPACITY

WASHINGTON STATE
Department of Ecology

Regulated Underground Storage Tanks Site List

September 8, 2010

KING COUNTY, Auburn

Site Name: ☒ BROOKSIDE DELI & GAS 619

Facility-Site ID: 93565538

Location: 32201 AUBURN-BLACK DIAMOND RD

Responsible Unit: NORTHWEST

UST Site ID: 97447

Auburn, 98002

Lat / Long: 47.31261 -122.09586

Tank Name	Tank Status	Install Date	Capacity Range	Compartment #	Substance Stored
NO LEAD	Operational	06/01/1987	10,000 to 19,999 Gallons	1	Alcohol Blend Gasoline
PREMIUM NL	Operational	06/01/1987	5,000 to 9,999 Gallons	1	Alcohol Blend Gasoline
REGULAR	Operational	06/01/1987	10,000 to 19,999 Gallons	1	Alcohol Blend Gasoline

[Report: TCP_web_reporting/RegulatedUSTs.rdl]

**Brookside Deli and Gas #619
32201 Auburn – Black Diamond Road
Auburn, Washington**

**Underground Piping Repair &
Site Check
November 11, 2010**

APPENDIX C

CERTIFICATIONS

INTERNATIONAL CODE COUNCIL

DAVID POLIVKA

The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:

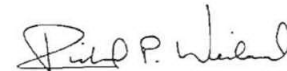
Washington State Site Assessment

Given this day of November 21, 2008

Certificate No. 8020698-U7



Adolf Zubia
President, Board of Directors



Richard P. Weiland
Chief Executive Officer



**INTERNATIONAL
CODE COUNCIL®**

APPENDIX D

SITE PHOTOGRAPHS



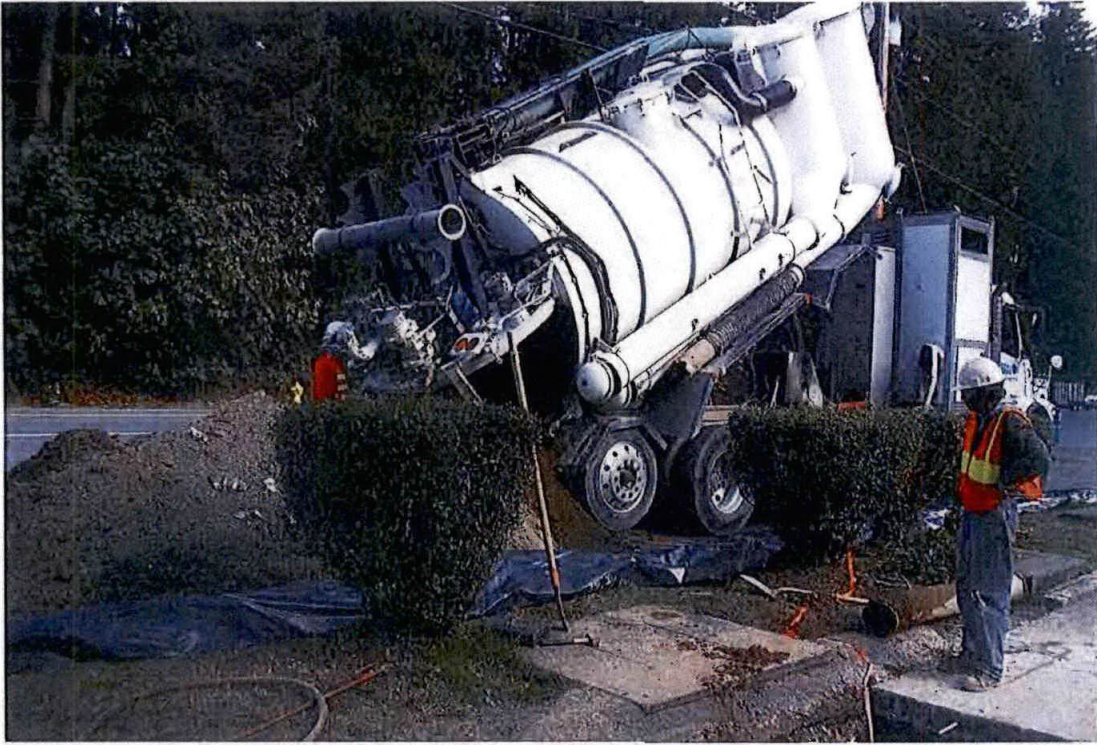






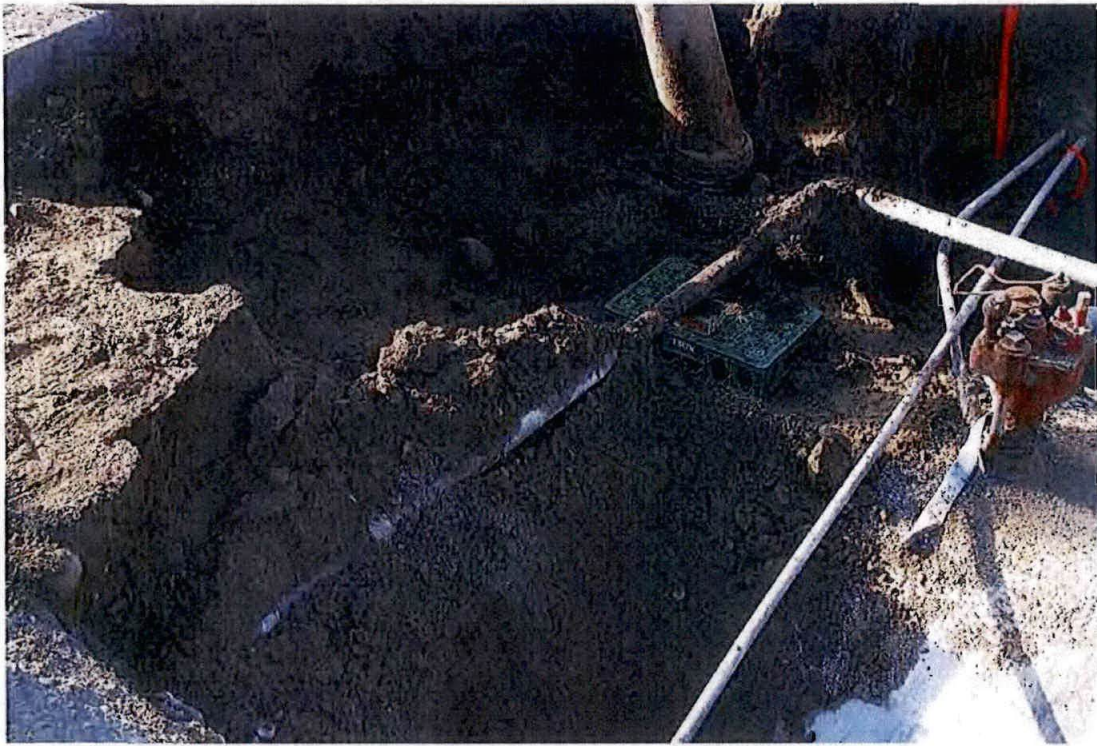


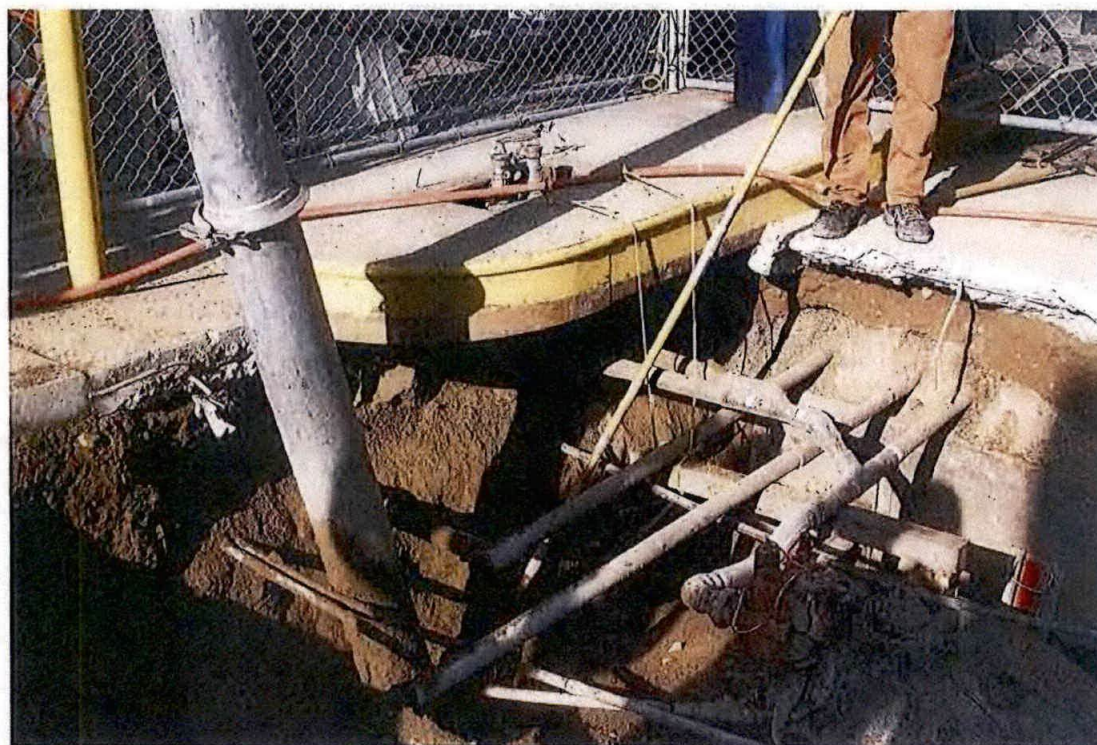
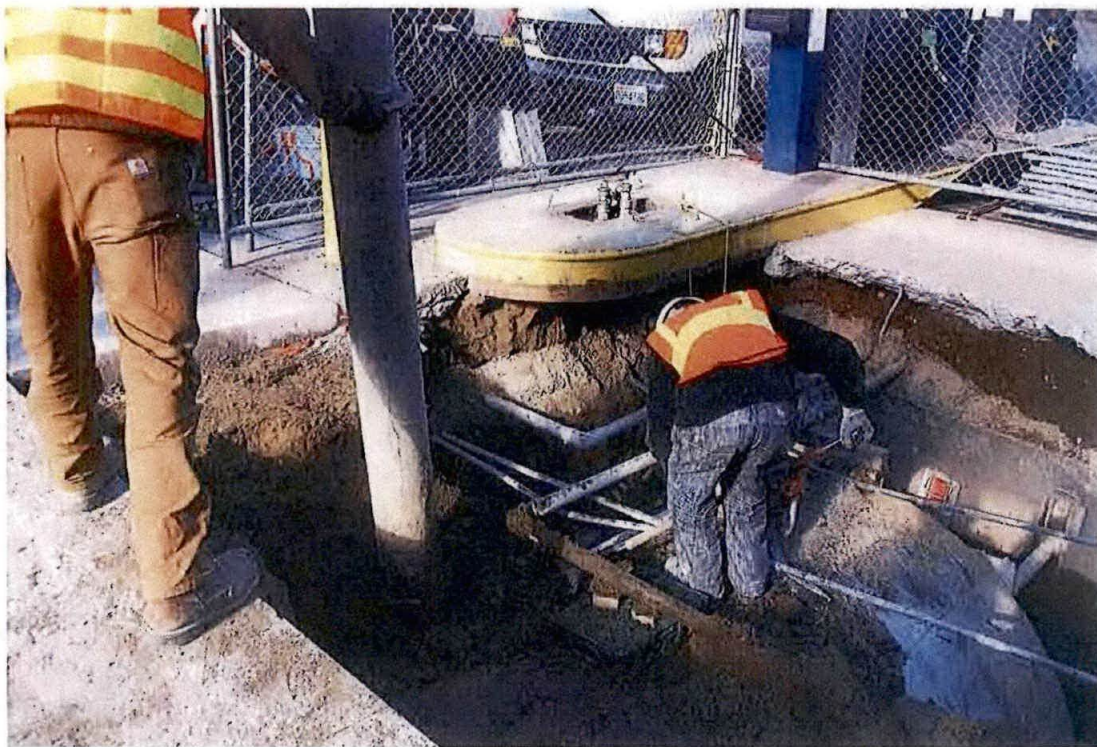


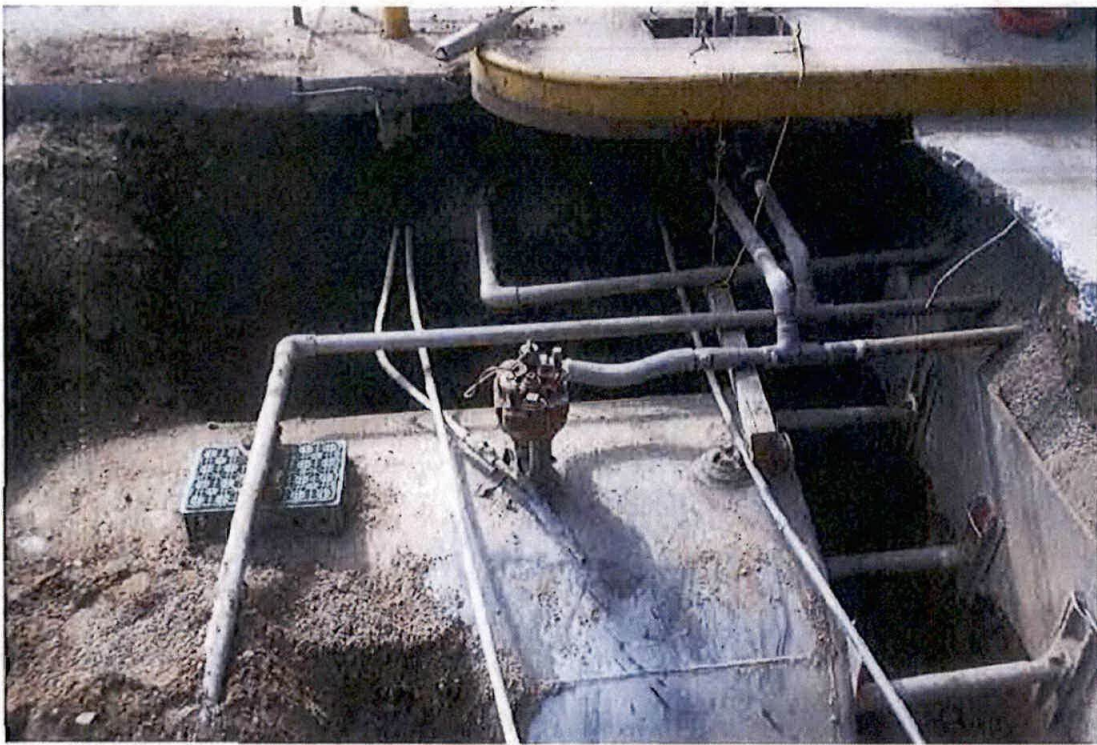




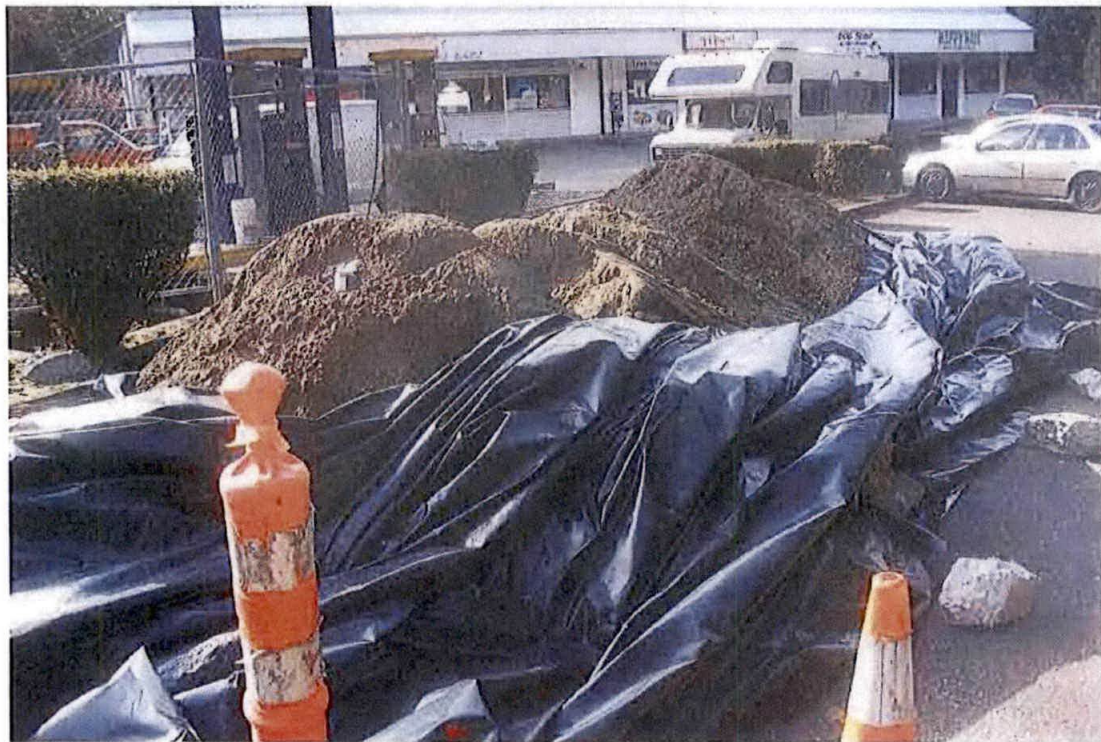














APPENDIX E

LABORATORY DATA SHEETS



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 27, 2010

Dave Polivka
White Shield, Inc.
23412 68th Avenue South
Kent, WA 98032

Dear Mr. Polivka:

Please find enclosed the analytical data report for the WSCO Brookside Grocery Project located in Auburn, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B on September 22, 2010.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work is enclosed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
President
Libby Environmental, Inc.

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

WSCO BROOKSIDE GROCERY PROJECT

Auburn, Washington

White Shield

Client Project # 210-038-01

Libby Project No. L100922-20

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	9/22/10	nd	nd	nd	nd	nd	98
LCS	9/22/10	108%	101%				90
NB-7	9/22/10	0.13	0.33	nd	0.29	nd	115
NSW-6	9/22/10	0.17	0.43	nd	0.35	nd	103
WB-9	9/22/10	0.4	1.31	0.15	1.07	14	98
SB-10.5	9/22/10	0.24	0.5	nd	0.43	13	110
SB-11	9/22/10	0.17	0.52	0.07	0.46	16	88
WSW-4.5	9/22/10	nd	0.1	nd	0.2	39	85
SSW-5	9/22/10	nd	0.13	nd	0.15	nd	95
NSW-5	9/22/10	0.03	nd	nd	0.18	nd	83
SP-1	9/22/10	0.23	0.46	0.42	4.2	135	95
SP-2	9/22/10	0.61	0.51	nd	1.3	41	108
SP-3	9/22/10	1.09	0.2	0.07	0.6	14	95
SP-3 Dup	9/22/10	1.08	0.21	0.06	0.68	15	95
SP-3 MS	9/22/10	125%	115%				88
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Athanasius Shaw

Libby Environmental, Inc.

Chain of Custody Record

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 9/22/10

Page: 1 of

Client: White Shield Inc

Project Manager: Dave Polivka

Address: 23412 68th Ave S Kent WA

Project Name: WSCO Brookside Grocery

Phone: 253-867-6070 Fax: 253-867-6075

Location: 32201 Kent Black Diamond Rd Auburn

Client Project # 210-038-01

Collector: Dave Polivka Date of Collection: 9/21-22/10

Sample Number	Depth	Time	Sample Type	Container Type											Field Note/# Containers
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCBs 8082	MTCA 5 Metals	
1 NB-7	7'	1338	Soil	240ml	X				X						
2 WSW-6	6'	1346													
3 WB-9	9'	1450													
4															
5 SR-10	10'	1136													
6 SR-11	11'	1155													
7															
8 WSW-H	4'	1337													
9 SSW-5	5'	1348													
10 NSW-5	5'	1349													
11															
12 SP-1	2'	1548													
13 SP-2	12'	1651													
14 SP-3	12'	1658													
15															
16															
17															
18															

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt:	Remarks:
<u>David Polivka</u>	<u>1645 9/22/10</u>	<u>A. Thompson</u>	<u>1145</u>		
Relinquished by:	Date / Time	Received by:	Date / Time	Good Condition?	
				Cold?	
Relinquished by:	Date / Time	Received by:	Date / Time	Seals Intact?	
				Total Number of Containers	TAT 24HR 48HR 5-Day

APPENDIX F

DISPOSAL BILLS-OF-LADEN

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA

016260 0001

WSDO Petroleum Corp

32201 Kent Black Diamond Rd Auburn, WA
Portland, OR

Contractor TB-10605

SITE 01	TICKET 357824	GRID
WEIGHMASTER TC00091 TIARA E		
DATE IN 18 October 2010		TIME IN 2:42 PM
DATE OUT 18 October 2010		TIME OUT 2:49 PM
VEHICLE SOIL		ROLL OFF
REFERENCE	ORIGIN AUBURN/KING	

00 Gross Weight 37,200.00 lb
Tare Weight 25,340.00 lb
Net Weight 11,860.00 lb 5.93 TN COAST TO COAST

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
5.93	TN	SW-CONT SOIL				
		Manifest				

SAFETY MEMOS:

Hard hats MUST be worn.

High Visibility vests MUST be worn.

Passengers MUST remain in vehicle at all times.

SIGNATURE

[Signature]

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
016260 - 0001
WSCO Petroleum Corp
32201 Kent Black Diamond Rd. Auburn, WA
Portland, OR
Contract: TB-10605

SITE 01	TICKET 357722	GRID
WEIGHMASTER TC000091 TIARA C		
DATE IN 18 October 2010		TIME IN 12:07 pm
DATE OUT 18 October 2010		TIME OUT 12:13 pm
VEHICLE SOIL		ROLL OFF
REFERENCE	ORIGIN AUBURN/KING	

00 Gross Weight 61,480.00 lb
Tare Weight 25,420.00 lb
Net Weight 36,060.00 lb 18.03 TN

COAST TO COAST

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
18.03	TN	SW-CONT SOIL				

Handwritten: SAFETY

SAFETY MEMOS:

Hard hats MUST be worn.

High Visibility vests MUST be worn.

Passengers MUST remain in vehicle at all times.

SIGNATURE

[Handwritten Signature]

NET AMOUNT

TENDERED

CHANGE

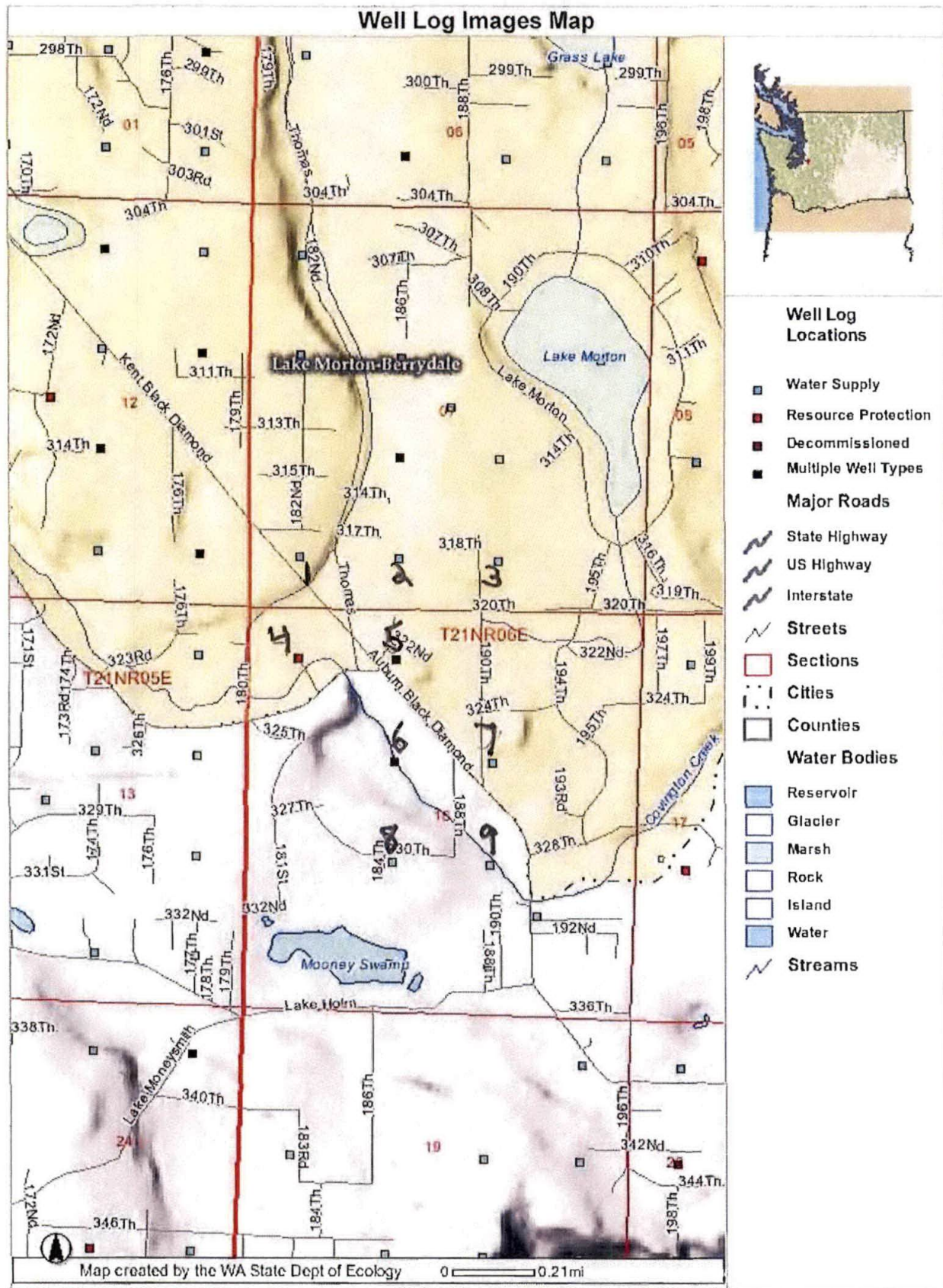
CHECK NO.

**Brookside Deli and Gas #619
32201 Auburn – Black Diamond Road
Auburn, Washington**

**Underground Piping Repair &
Site Check
November 11, 2010**

APPENDIX G

DEPARTMENT OF ECOLOGY WELL LOGS



WATER WELL REPORT

Application No.

Permit No.

(1) OWNER: Name D. E. Austin Address 31827 Thomas Rd. SE, Auburn

(2) LOCATION OF WELL: County King Sec 7 T. 21 N. R. 6 E. W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 41 ft. Depth of completed well 41 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 41 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐ Torch
Type of perforator used
SIZE of perforations 1/8 in. by 3 in.
perforations from 31 ft. to 41 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: 20
Gravel placed from 7.0 ft. to 41 ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal 100 lbs. of 1/2" gravel
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: HP

(8) WATER LEVELS: Land-surface elevation above mean sea level
Static level 4 ft. below top of well Date 1/27/74
Artesian pressure lbs. per square inch Date
Artesian water is controlled by
(Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Ballor test 27 gal./min. with 0 ft. drawdown after 2 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
surface	0	2
Brown clay	2	7
Brown hardpan	7	14
Handpacked brown gravel,	14	19
water seepage		
Brown hardpan	19	21
Blue clay	21	32
Brown water sand & gravel	32	38
Handpacked brown gravel	38	41

Work started 1/23, 1975 Completed 1/27, 1975

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Johnson Drilling Co., Inc.
(Person, firm, or corporation) (Type or print)

Address 19415 108 Ave SE Kenton

[Signed] Brad Johnson
(Well Driller)

License No. 0233 Date 1/29, 1974

SW 1/4 S.W. 1/4 Section 7, Township 21 North, Range 6 East, W. 1. in King County, Washington, described as follows:

Beginning at the intersection of the south line of Government Lot 7 and northeasterly margin of Soos Creek-Berrydale Road;
Thence northwesterly along said road margin 330 feet;
Thence northeasterly at right angles to said road margin 100 feet;
Thence northwesterly parallel with road margin 175 feet;
Thence northeasterly at right angles to said line 250 feet;
Thence southeasterly to a point on westerly margin of W. I. Thomas No. 2 County Road 420 feet northerly of the south line of Section;
Thence southerly along said westerly line of County Road and the east line of Government Lot 7 to the south line of said Government Lot;
Thence west along the southerly line thereof to beginning;
EXCEPT portion lying southerly and easterly of a line running west parallel with said south line 153 feet point point of centerline of Thomas No. 2 County Road 230 feet northerly measured along side centerline from said south line;
Thence southerly parallel with said centerline to said south line.

D. E. Austin

31827 Thomas Road S.E.

Abuburn, wa

WATER WELL REPORT

Application No.

Permit No.

(1) OWNER: Name Ericckson Estates Address 18026 S.E. 317th Auburn, Wa.

(2) LOCATION OF WELL: County King 84 1/4 SW 1/4 Sec 7 T. 21 N. R. 6 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 6
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 88 ft. Depth of completed well 88 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 88 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name Model No.
Type Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal puddling clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 7 ft. below top of well Date 11-16-84
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: 30 gal./min. with 10 ft. drawdown after 3 hrs.
AIR JET

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level

Date of test
Ballot test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Surface	0	2
Brown gravel	2	25
Brown sandy gravel-clay	25	45
Brown sandy gravel	45	80
Brown water sand & gravel	80	88
Brown sand & gravel-clay	88	—

JAN 16 1985

Work started 11-15, 1984 Completed 11-16, 1984

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Johnson Drilling Co., Inc.
(Person, firm, or corporation) (Type or print)

Address 19415 108th Ave S.E. Renton 9805

[Signed] Brooks Johnson
(Well Driller)

License No. 0233 Date 11-16, 1984

WATER WELL REPORT

Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller

Construction/Decommission ("x" in circle)

☒ Construction

☐ Decommission ORIGINAL CONSTRUCTION Notice of Intent Number

137404

PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal
☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other

TYPE OF WORK: Owner's number of well (if more than one)

☒ New Well ☐ Reconditioned Method ☐ Dug ☐ Bored ☐ Driven
☐ Deepened ☐ Cable ☒ Rotary ☐ Jetted

DIMENSIONS: Diameter of well 6 inches, drilled 67 ft
 Depth of completed well 67 ft.

CONSTRUCTION DETAILS

Casing ☒ Welded 6" Diam. from 0 ft to 62 ft.
 Installed: ☐ Liner installed Diam. from ft to ft
☐ Threaded Diam. from ft to ft

Perforations: ☐ Yes ☒ No

Type of perforator used

SIZE of perfs in by in and no of perfs from ft to ft

Screens: ☒ Yes ☐ No ☒ K-Pac Location 61'-62'

Manufacturer's Name

Type stainless steel Model No. tele
 Diam 6" Slot Size 006 from 62 ft to 67 ft
 Diam Slot Size from ft to ft

Gravel/Filter packed: ☐ Yes ☒ No ☐ Size of gravel/sand

Materials placed from ft to ft

Surface Seal: ☒ Yes ☐ No To what depth? 18 ft

Materials used in seal bentonite

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? Depth of strata

Method of sealing strata off

PUMP: Manufacturer's Name

Type H.P.

WATER LEVELS: Land-surface elevation above mean sea level ft

Static level 20 ft below top of well Date 7-18-03

Artesian pressure lbs per square inch Date

Artesian water is controlled by (cap, valve, etc)

WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield gal/min with ft drawdown after hrs

Yield gal/min with ft drawdown after hrs

Yield gal/min with ft drawdown after hrs

Recovery data (time taken as zero when pump turned off)(water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal/min with ft drawdown after hrs

Artest 8 gal/min with stem set at 60 ft for 1 hrs

Artesian flow gpm Date

Temperature of water Was a chemical analysis made? ☐ Yes ☒ No

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

☒ Driller ☐ Engineer ☐ Trainee Name (Print) Brad Johnson

Driller/Engineer/Trainee Signature Brad Johnson

Driller or Trainee License No. 0233

If trainee, licensed driller's

Signature and License no.

CURRENT

Notice of Intent No. W153697

Unique Ecology Well ID Tag No. A80-575

Water Right Permit No.

Property Owner Name Frank Hayden

Well Street Address 31877 Kent-Bl Dia Rd

City Auburn County: King

Location SW 1/4- 1/4 SW 1/4 Sec 7 Twn 21 R 2 EWM circle or one WWM

Lat/Long: Lat Deg Lat Min/Sec

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

Tax Parcel No. 072106-9027

CONSTRUCTION OR DECOMMISSION PROCEDURE
 Formation Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. Indicate all water encountered (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
Surface	0	3
Sand-gravel-brown	3	8
Hardpan brown	8	20
Clay-gray	20	62
Sand-gray-fine	62	67
Water		

RECEIVED

AUG 18 2003

DEPT OF ECOLOGY

Start Date 7-16-03 Completed Date 7-18-03

Drilling Company Johnson Drilling Co, Inc

Address 19415 108th Ave SE

City, State, Zip Renton, WA 98055

Contractor's Registration No. JOHNSON2072M Date 7-18-03

Ecology is an Equal Opportunity Employer ECY 050-1-20 (Rev 4/01)

STATE OF WASHINGTON

Permit No.

(1) OWNER: Name Don Martin Address 31660 Thomas Rd. S.E. Auburn ⁹⁵⁰⁹

(2) LOCATION OF WELL: County Rock - SW 1/4 SW 1/4 Sec 7 T. 31 N. R. 16 E. W. 1

Bearing and distance from section or subdivision corner $S\frac{1}{2}$ of $N\frac{1}{2}$ of $SE\frac{1}{4}$ of $SW\frac{1}{4}$ + $S\frac{1}{2}$ of $N\frac{1}{2}$ of

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☒ (10) WELL LOG: Grv't Lot 7
Irrigation ☐ Test Well ☐ Other ☐ Formation: Describe by color, character, size of material and structure, and

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input checked="" type="checkbox"/>	Jettied	<input type="checkbox"/>

(5) **DIMENSIONS:** Diameter of well 62 inches.
 Drilled 33 ft. Depth of completed well 33 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 5" Diam. from 0 ft. to 33 ft.
 Threaded ☐ " Diam. from ft. to ft.
 Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used.....

SIZE of perforations in. by in.

..... perforations from ft. to ft.

..... perforations from ft. to ft.

..... perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal packing clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name.....
Type: HP

(8) **WATER LEVELS:** Land-surface elevation above mean sea level.....ft.
 Static level2.....ft. below top of well Date 11-7-73
 Artesian pressure lbs. per square inch Date.....
 Artesian water is controlled by..... (Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs

The diagram shows a four-bar linkage mechanism. It consists of four links: Link 1 (the fixed frame/ground), Link 2 (the crank), Link 3 (the coupler), and Link 4 (the follower). Link 1 is represented by a horizontal line with a cross at the left end. Link 2 is connected to Link 1 at the left end and to Link 3 at the top. Link 3 is connected to Link 2 at the top and to Link 4 at the right. Link 4 is connected to Link 3 at the right and to Link 1 at the right end. The joints are labeled with 'P' and 'R' symbols.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
.....
.....
.....

Date of test
 Baller test 30 gal./min. with 11 ft. drawdown after 3 hrs

Artesian flow g.p.m. Date

Temperature of water..... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG: Gov't Lot 7

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Surface	0	3
Gray clay streaked gravel	3	8
Gray clay	8	13
Gray water sand	13	15
Blue clay	15	27
Gray water sand	27	33
Silt	33	-

Work started 117 19 79 Completed 117 19 79

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Johnson Drilling Co., Inc.
(Person, firm, or corporation) (Type or print)

Address: 19415 108th Ave SE Renton 98055

[Signed] Bruce J. H. H. H.
(Well Driller)

License No. 0233 Date 1/7, 1979

ECY 050-1-20

WATER WELL REPORT

Original & 1st copy Ecology 2nd copy owner 3rd copy driller

Construction/Decommission (x in circle)

☒ Construction

☐ Decommission ORIGINAL CONSTRUCTION Notice of Intent Number

CURRENT

Notice of Intent No

4128949

Unique Ecology Well ID Tag No

ABO-522

Water Right Permit No

Property Owner Name Georgia & Jim Hines

Well Street Address 18530 SE 317th PL

City Auburn County King

Location SE 1/4 1/4 SW 1/4 Sec. 2 Twn. 21 R. 6 E or one WWM

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

Long Deg Long Min/Sec

Tax Parcel No 072106-9083-03

PROPOSED USE ☒ Domestic ☐ Industrial ☐ Municipal ☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other

TYPE OF WORK Owner's number of well (if more than one) ☐ New Well ☐ Reconditioned Method ☐ Dug ☐ Bored ☐ Driven ☒ Deepened ☐ Cable ☒ Rotary ☐ Jetted

DIMENSIONS Diameter of well 6 inches drilled 157 ft Depth of completed well 122 ft

CONSTRUCTION DETAILS

Casing ☒ Welded 6 Diam from 33 ft to 187 ft Installed ☐ Liner installed Diam from ft to ft ☐ Threaded Diam from ft to ft

Perforations ☒ Yes ☐ No Type of perforator used star wheel SIZE of perfs 1/8 in by 2 in and no of perfs 100 from 110 ft to 120 ft

Screens ☒ Yes ☐ No ☐ K Pac Location Manufacturer's Name Hardrock Type PVC Model No Diam 4 Slot Size .010 from 92 ft to 112 ft Diam Slot Size from ft to ft

Gravel/Filter packed ☒ Yes ☐ No Size of gravel/sand .010-020 Materials placed from 88 ft to 122 ft

Surface Seal ☒ Yes ☐ No To what depth? 18 ft Materials used in seal bentonite

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? Depth of strata

Method of sealing strata off

PUMP Manufacturer's Name Type HP

WATER LEVELS Land surface elevation above mean sea level ft Static level surface below top of well Date 5-29-02 Artesian pressure lbs per square inch Date Artesian water is controlled by valve (cap valve etc)

WELL TESTS Drawdown is amount water level is lowered below static level Was a pump test made? ☐ Yes ☒ No If yes by whom? Yield gal/min with ft drawdown after hrs Yield gal/min with ft drawdown after hrs Yield gal/min with ft drawdown after hrs

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test Bailer test gal/min with ft drawdown after hrs Airtest 7 gal/min with stem set at 90 ft for 1 1/2 hrs Artesian flow gpm Date Temperature of water Was a chemical analysis made? ☐ Yes ☒ No

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

☒ Driller ☐ Engineer ☐ Trainee Name (Print) Brad Johnson

Driller/Engineer/Trainee Signature

Driller or Trainee License No 0233

If trainee, licensed driller's

Drilling Company Johnson Drilling Co, Inc

Address 19415 108th Ave SE

City State Zip Renton, WA 98055

Contractor's Registration No 504HNSDC207QM Date 5-29-02

CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation Describe by color character size of material and structure and the kind and nature of the material in each stratum penetrated with at least one entry for each change of information Indicate all water encountered (USE ADDITIONAL SHEETS IF NECESSARY)

MATERIAL	FROM	TO
Gray sand silty	33	50
Gray clay-sand	50	56
Sand-gray-fine silty	56	79
clay silty	79	84
Sand silty gray	84	148
silt gray fine	148	176
clay-gray	176	190
4" PVC Black	0	92
010 screen	92	112
4" PVC Black	112	122

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Start Date 5-20-02 Completed Date 5-29-02

FCY 050-1-20

ECY 050-1-20 (8/83) ' ' '

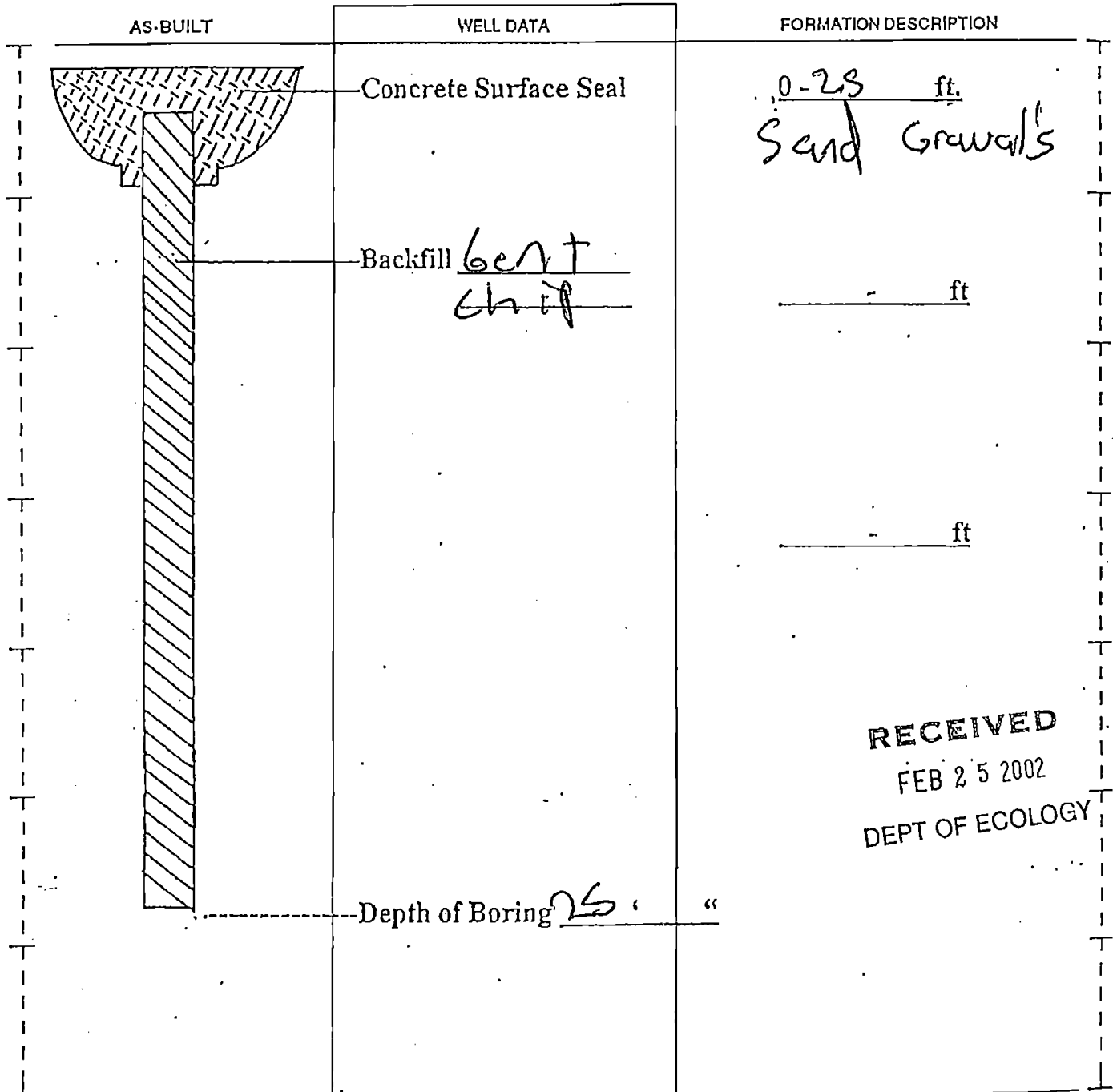
SOIL BORING REPORT

Notification # S 14964

Project Name: MAPLE GLEN RETAIL CNTR
 Drilling Method: HSA
 Driller: Yancey R. White
 Firm: Cascade Drilling, Inc.
 Signature: [Signature]
 Consulting Firm: Upton Group Svcs
 Representative: Greg Ferris

County: KING 21-6E-18D
 Location: NW1/4NW1/4 Sec 18 T21N R6E
 Street Address of Boring: 32201 Kent-Black Diamond Rd, Auburn
 Water Level Elevation: N/A
 Ground Surface Elevation: N/A
 Date of Drilling: 2/5/02

Invoice # 2060



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PAGE _____ OF _____

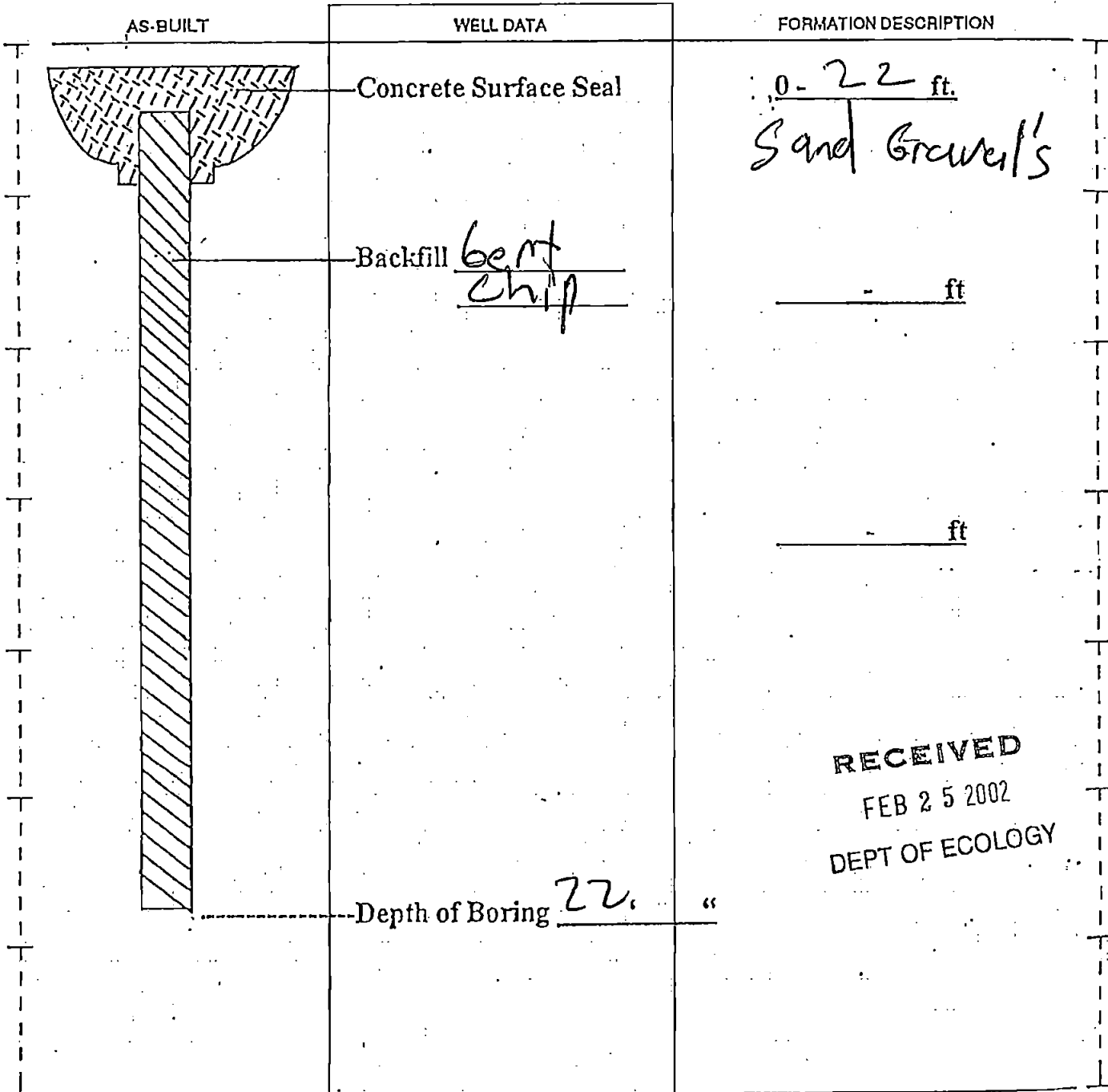
169091 SOIL BORING REPORT

Notification # S 14964

Project Name: MAPLE GLEN RETAIL CNTR
 Drilling Method: HSA
 Driller: Yancey R. White
 Firm: Cascade Drilling, Inc.
 Signature: [Signature]
 Consulting Firm: Clayton Group Svcs
 Representative: Greg Ferris

County: KING 21-6E-18D
 Location: NW1/4NW1/4 Sec 18 T21N R6E
 Street Address of Boring: 32201 Kent-Black Diamond Rd Auburn
 Water Level Elevation: N/A
 Ground Surface Elevation: N/A
 Date of Drilling: 2/5/02

Invoice # 2060



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09098

SOIL BORING REPORT

Notification # S 14964

Project Name: MAPLE GLEN RETAIL CNTR

County: KING 21-6E-18D

Drilling Method: HSA

Location: NW 1/4 NW 1/4 Sec 18 T 21 N R 6 E

Driller: Yancey R. White

Street Address of Boring:

Firm: Cascade Drilling, Inc.

32201 Kent-Black Diamond Rd, Auburn

Signature: [Signature]

Water Level Elevation: N/A

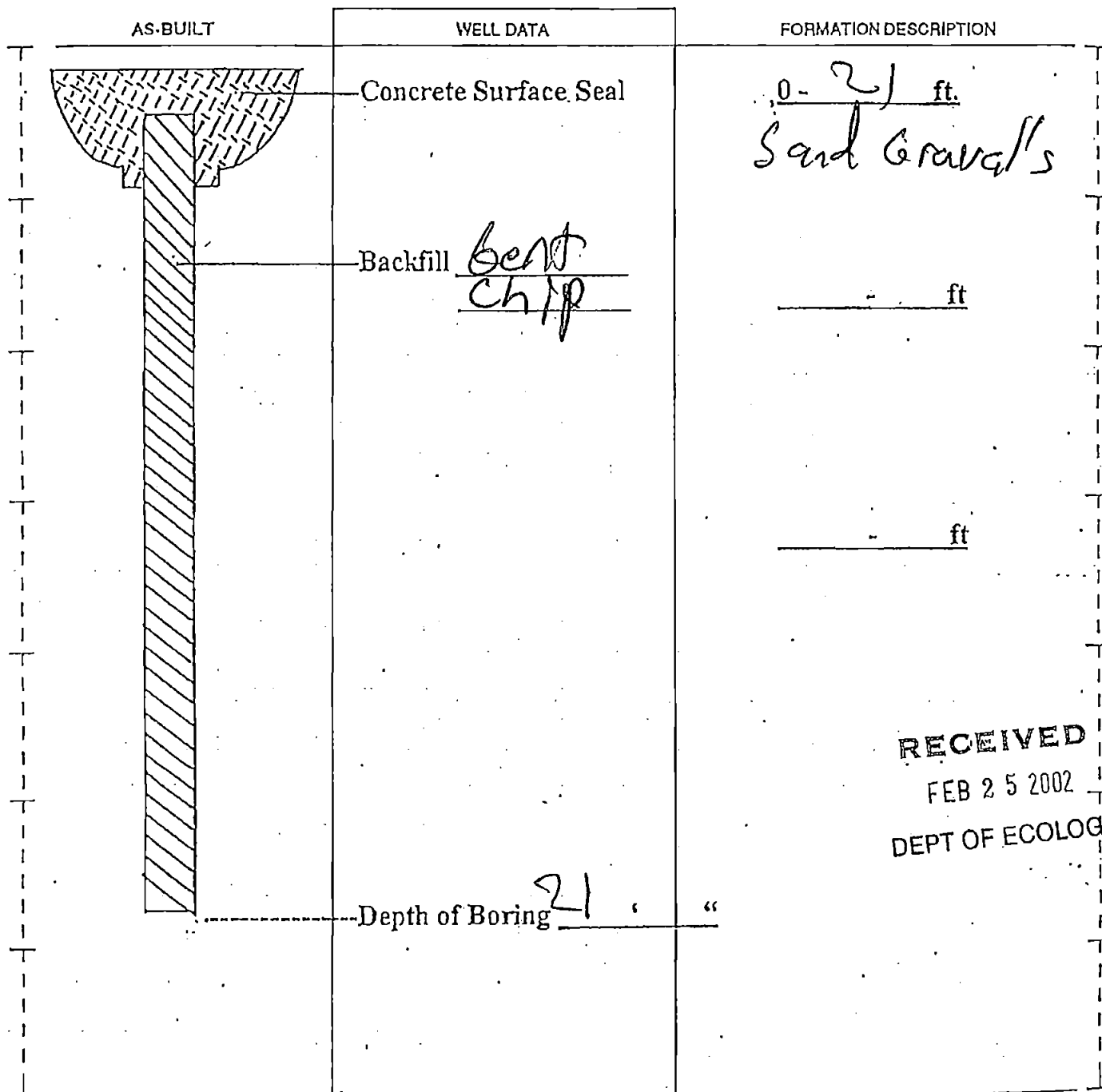
Consulting Firm: Clayton Group Svcs

Ground Surface Elevation: N/A

Representative: Greg Ferris

Date of Drilling: 2/8/01

Invoice # 2060



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FEB 25 2002
DEPT OF ECOLOGY

SOIL BORING REPORT

Notification # S-14964

Project Name: MAPLE GLEN RETAIL CNTR

County: KING 21-6E-18D

Drilling Method: HSA

Location: NW1/4NW1/4 Sec 18 T21N R6E

Driller: Yancey R. White

Street Address of Boring:

Firm: Cascade Drilling, Inc.

32201 Kent-Black Diamond Rd, Auburn

Signature: [Signature]

Water Level Elevation: N/A

Consulting Firm: Clayton Group Svcs

Ground Surface Elevation: N/A

Representative: Greg Ferris

Date of Drilling: 2/5/02

Invoice # 2060

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	Concrete Surface Seal	0 - 18 ft. Sand & Gravel
	Backfill <u>6' 10'</u>	ft.
	Depth of Boring <u>18'</u>	ft.

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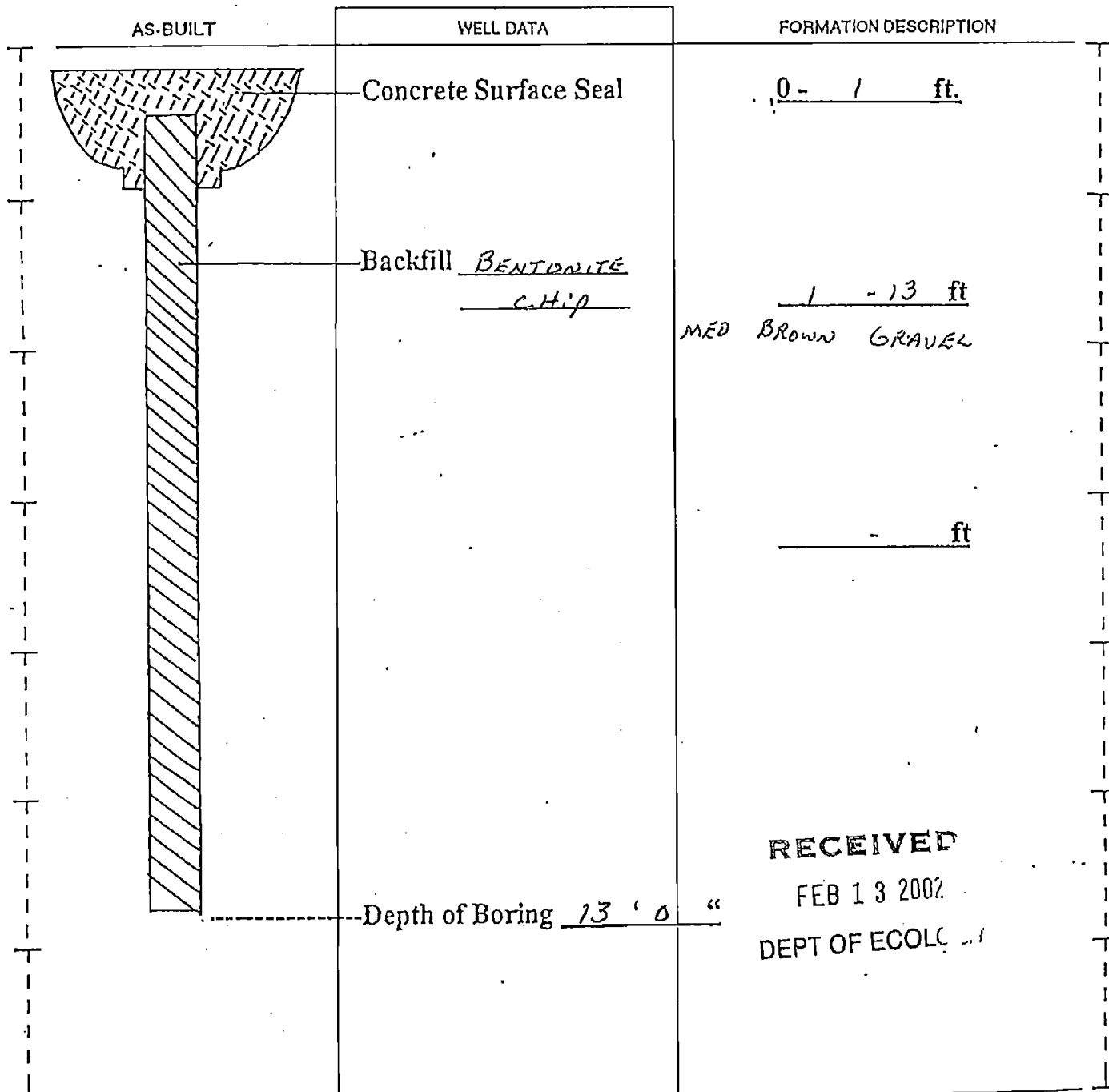
SOIL BORING REPORT

Notification # R.58135

Project Name: Maple Glen Retail Ctr.
 Drilling Method: Probe
 Driller: F. Lynn Goble
 Firm: Cascade Drilling, Inc.
 Signature: [Signature]
 Consulting Firm: Clayton Env.
 Representative: Greg Ferris

County: Kent 21-6E-18D
 Location: NW1/4 NW1/4 Sec 18 T21N R6E
 Street Address of Boring: 32201 Kent Bl. Diamond Rd, Auburn
 Water Level Elevation: N/A
 Ground Surface Elevation: N/A
 Date of Drilling: 1-25-02

Invoice # 2040



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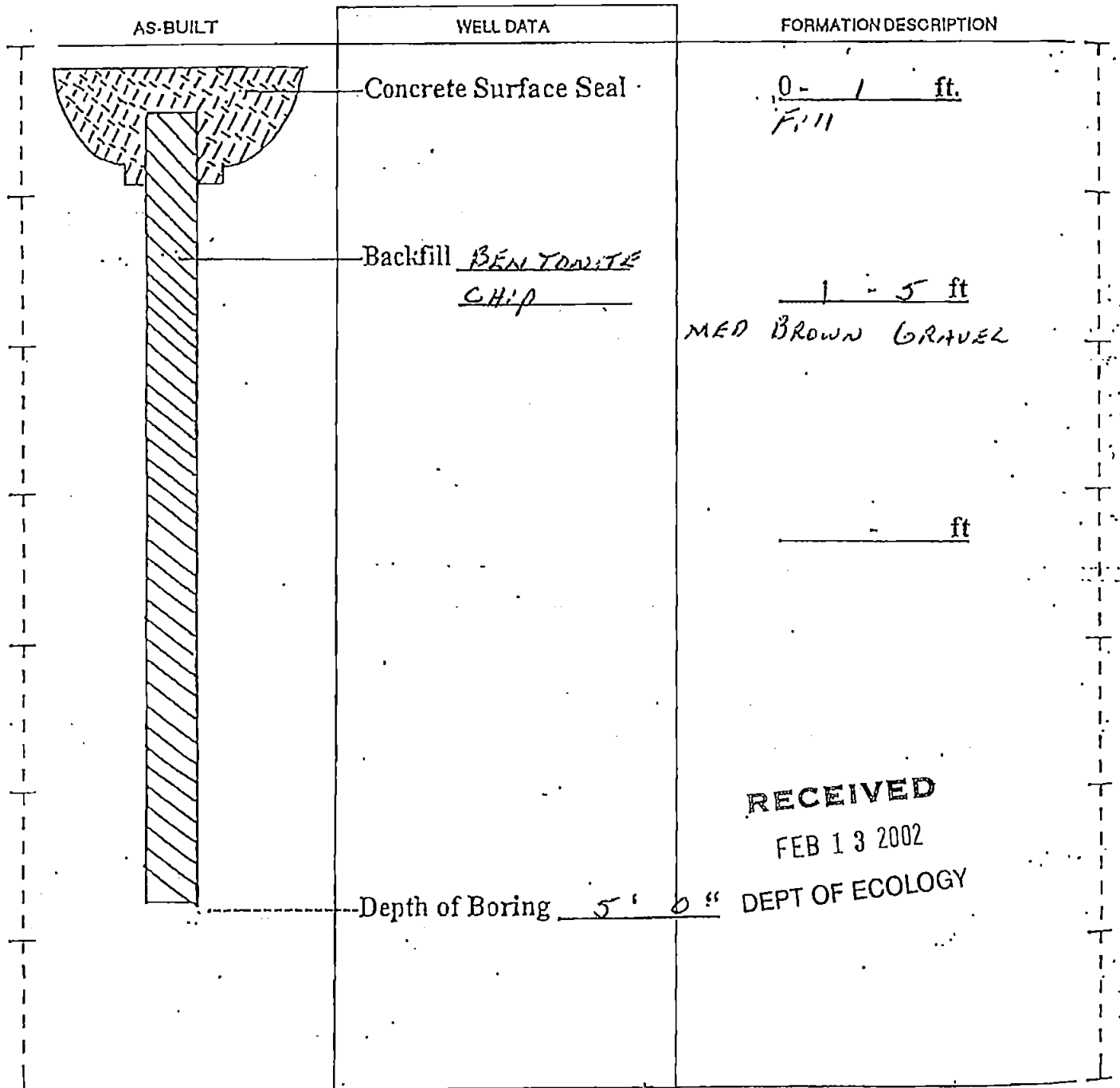
SOIL BORING REPORT

Notification # S 14953

Project Name: Maple Glen Retail Ctr.
 Drilling Method: Probe
 Driller: F. Lynn Goble
 Firm: Cascade Drilling, Inc.
 Signature: F. Lynn Goble
 Consulting Firm: Clayton Env.
 Representative: Greg Ferris

County: King 21-6E-18D
 Location: N 1/4 N 1/4 Sec 18 T 21 N R 6 E
 Street Address of Boring: 32201 Kent-BL Diamond Rd, Auburn
 Water Level Elevation: N/A
 Ground Surface Elevation: N/A
 Date of Drilling: 1-25-02

Invoice # 2040



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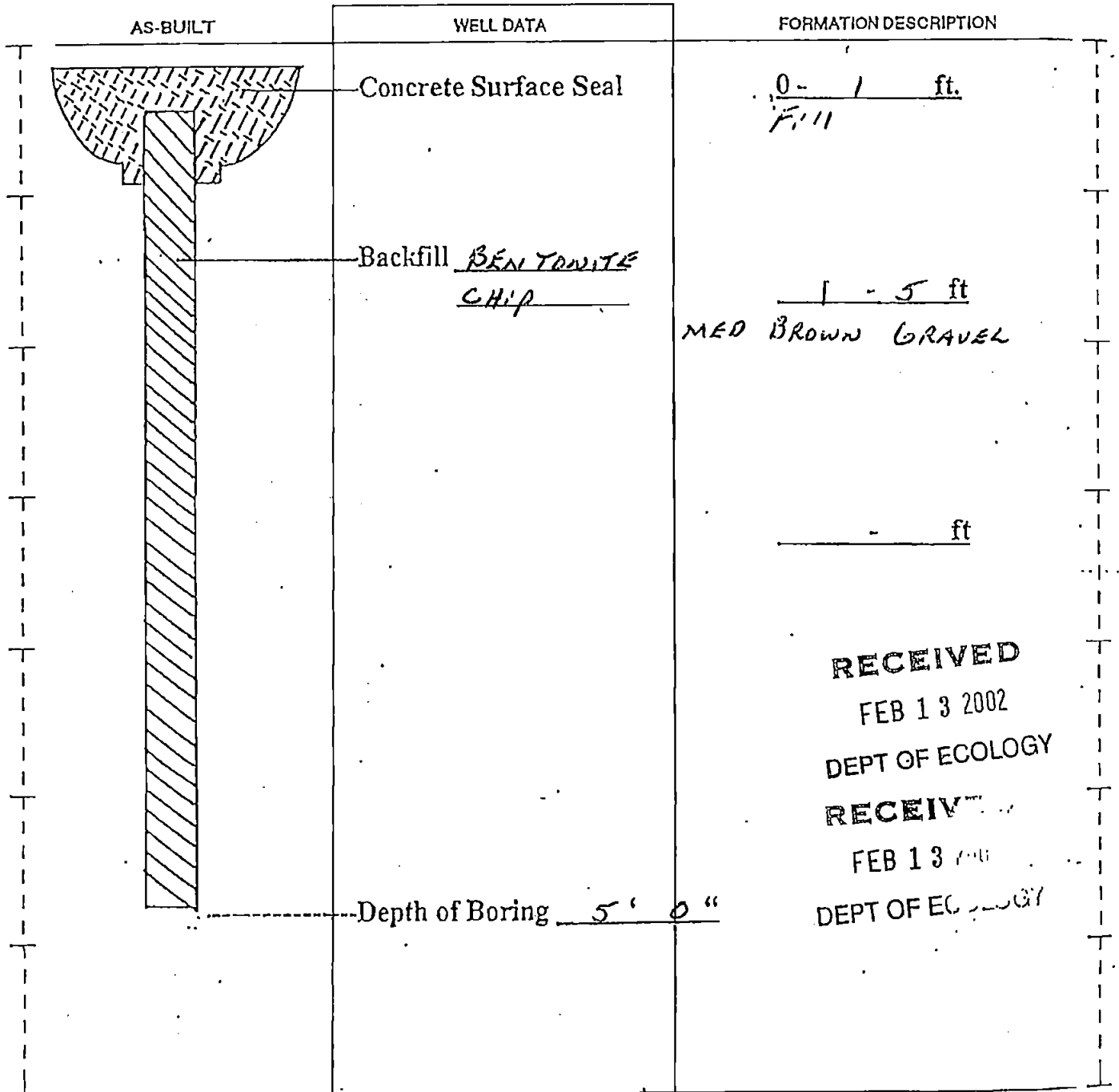
SOIL BORING REPORT

Notification: # S 14953

Project Name: Maple Glen Retail Ctr.
 Drilling Method: Probe
 Driller: F. Lynn Goble
 Firm: Cascade Drilling, Inc.
 Signature: [Signature]
 Consulting Firm: Clayton Env.
 Representative: Greg Ferris

County: King 21-6E-18D
 Location: N 1/4 N 1/4 Sec 18 T 21 N R 6 E
 Street Address of Boring: 32201 Kent-BI Diamond Rd, Auburn
 Water Level Elevation: N/A
 Ground Surface Elevation: N/A
 Date of Drilling: 1-25-02

Invoice # 2040



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PAGE 1 OF 2

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RESOURCE PROTECTION WELL REPORT

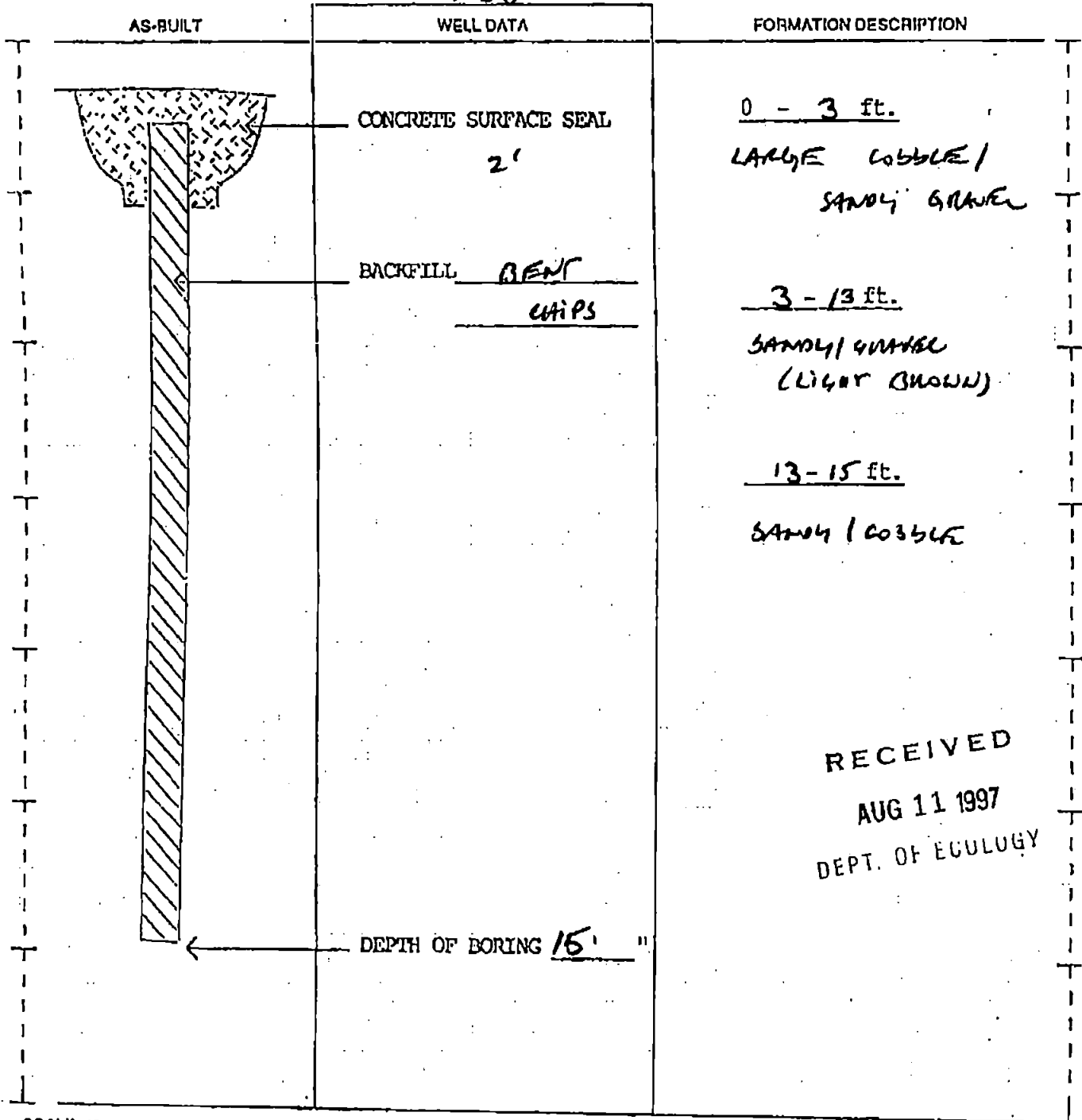
START CARD NO.

21-6-100
A28451

PROJECT NAME: Brookside Grocery
WELL IDENTIFICATION NO. n/a
DRILLING METHOD: HSA
DRILLER: Brent C. Maloy
FIRM: Cascade Drilling, Inc.
SIGNATURE: [Signature]
CONSULTING FIRM: SECAR
REPRESENTATIVE: R. Cofkin / M. Melzer

COUNTY: King
LOCATION: NE 1/4 N 1/2 Sec 18 Twp 21N R 6E
STREET ADDRESS OF WELL: 32201 Kent - Black Diamond Rd - Auburn
WATER LEVEL ELEVATION: N/A
GROUND SURFACE ELEVATION: N/A
INSTALLED: 7-9-97
DEVELOPED: N/A

7288



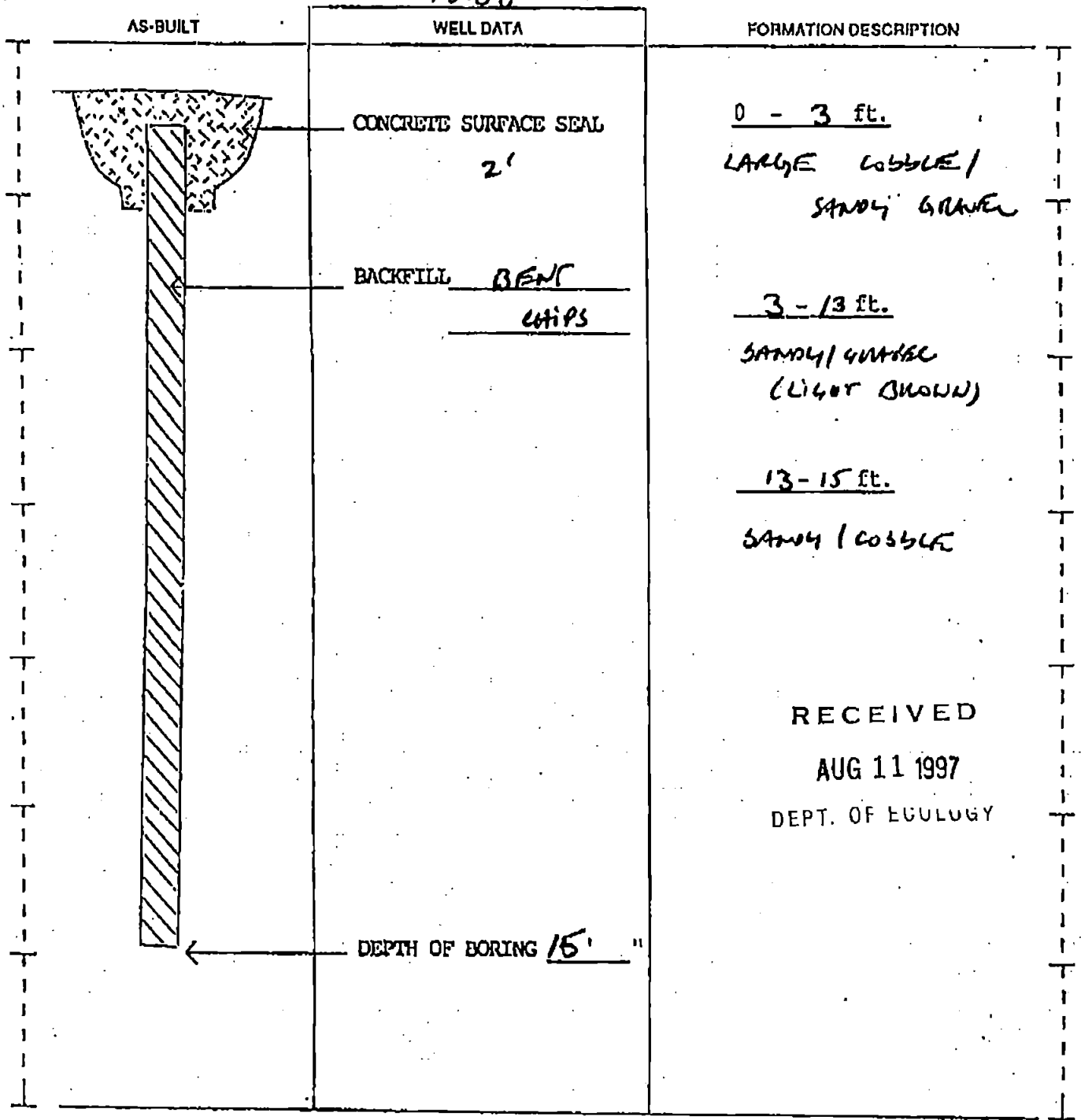
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AUG 11 1997
DEPT. OF ECOLOGY

SCALE: 1" =

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PROJECT NAME: Cascade Drilling
 WELL IDENTIFICATION NO.: 7288
 DRILLING METHOD: HSA
 DRILLER: Brent C. Maloy
 FIRM: Cascade Drilling, Inc.
 SIGNATURE: [Signature]
 CONSULTING FIRM: SECAR
 REPRESENTATIVE: R. Calkin / M. Malzer

START CARD NO. A28451
 COUNTY: King
 LOCATION: NE 1/4 NW 1/4 Sec 18 Twp 21N R 6E
 STREET ADDRESS OF WELL: 32201 Kent Black Diamond Rd - Auburn
 WATER LEVEL ELEVATION: N/A
 GROUND SURFACE ELEVATION: N/A
 INSTALLED: 7-9-97
 DEVELOPED: N/A

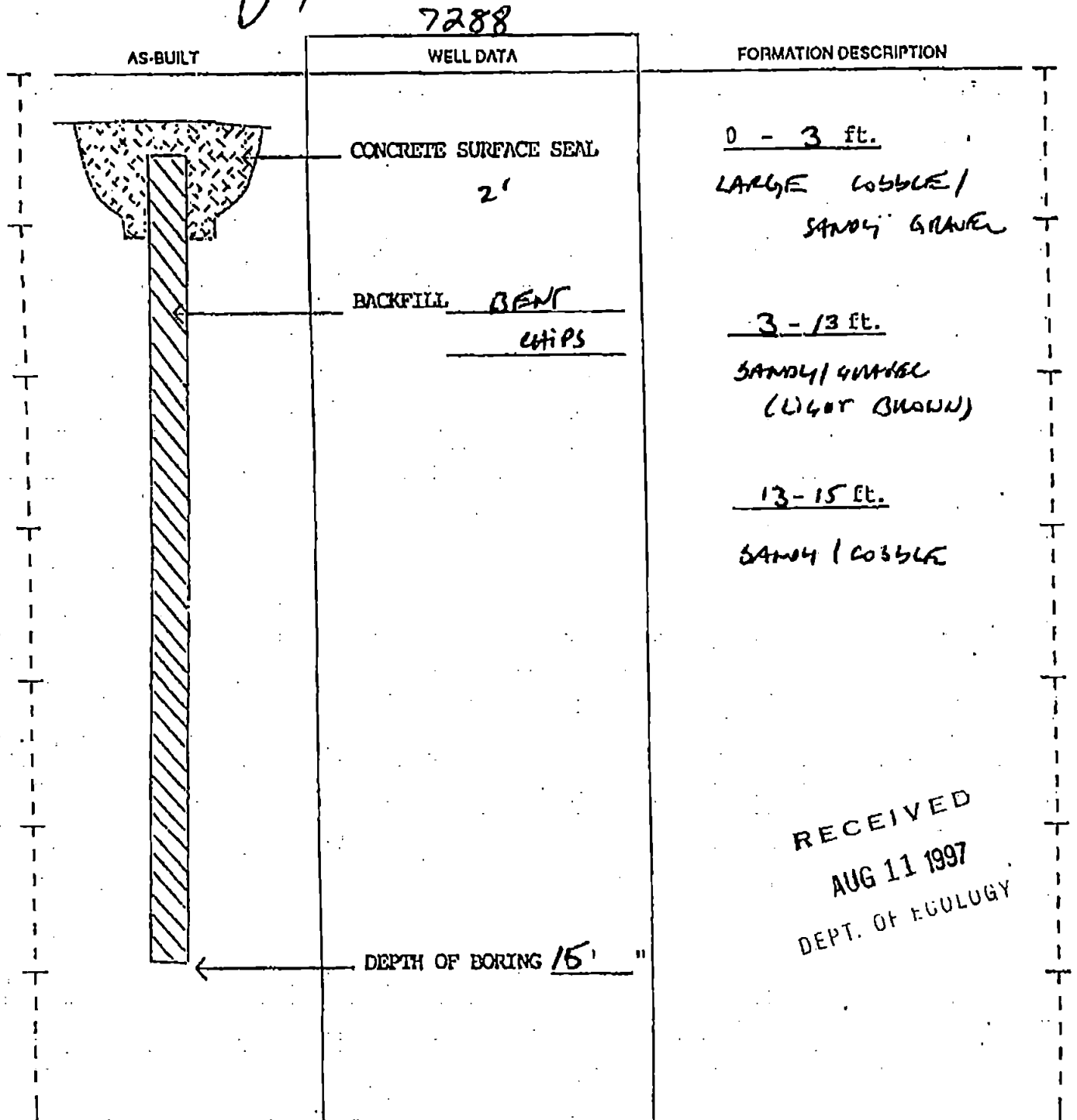


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PROJECT NAME: Providence Grocery
WELL IDENTIFICATION NO. n/a
DRILLING METHOD: HSA
DRILLER: Brent C. Maloy
FIRM: Cascade Drilling, Inc.
SIGNATURE: [Signature]
CONSULTING FIRM: SECAR
REPRESENTATIVE: R. Cohen / M. Malzer

START CARD NO. A28451

COUNTY: King
LOCATION: NE 1/4 NW 1/4 Sec 18 Twn 21N R 16E
STREET ADDRESS OF WELL: 32201 Kent - Black Diamond Rd - Auburn
WATER LEVEL ELEVATION: N/A
GROUND SURFACE ELEVATION: N/A
INSTALLED: 7-9-97
DEVELOPED: N/A



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PAGE _____ OF _____

WATER WELL REPORT

Start Card No.

W 42308

STATE OF WASHINGTON

Unique Well I.D. 1

Water Right Permit No.

(1) OWNER: Name MASON, JOHN Address 28012 122 PL SE KENT, WA 98031-21N-6-18-C

(2) LOCATION OF WELL: County KING

(2a) STREET ADDRESS OF WELL (or nearest address) 18530 AUB BLK-DIA ROAD, KENT - NE 1/4 NW 1/4 Sec 18 T 21 N., R 6 WM

(3) PROPOSED USE: DOMESTIC

(4) TYPE OF WORK: Owner's Number of well
(If more than one)
NEW WELL Method: ROTARY(5) DIMENSIONS: Diameter of well 6 inches
Drilled 140 ft. Depth of completed well 140 ft.(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 140 ft.
WELDED " Dia. from ft. to ft.
" Dia. from ft. to ft.

Perforations: YES

Type of perforator used ROTARY STAR

SIZE of perforations 3/16 in. by 1 in.

200 perforations from 95 ft. to 105 ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: NO

Manufacturer's Name

Type

Model No.

Diam.

slot size

from

ft. to

ft.

Diam.

slot size

from

ft. to

ft.

Gravel packed: NO

Size of gravel

Gravel placed from

ft. to

ft.

Surface seal: YES

To what depth? 18 ft.

Material used in seal BENTONITE CLAY

Did any strata contain unusable water? NO

Type of water?

Depth of strata

ft.

Method of sealing strata off N/A

(7) PUMP: Manufacturer's Name

Type N/A

H.P.

(8) WATER LEVELS:

Land-surface elevation

above mean sea level ... ft.

Static level 9

ft. below top of well Date 02/21/95

Artesian Pressure

lbs. per square inch Date

Artesian water controlled by N/A

Work started 02/15/95

Completed 02/21/95

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? NO If yes, by whom?

Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time Water Level Time Water Level Time Water Level

Date of test

Bailer test gal./min. ft. drawdown after hrs.

Air test 25 gal./min. w/ stem set at 105 ft. for 1 hrs.

Artesian flow

g.p.m.

Date

Temperature of water

Was a chemical analysis made? NO

(10) WELL LOG

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

MATERIAL	FROM	TO
BROWN CEMENTED SAND & GRAVEL	0	47
BLUE CEMENTED SAND & GRAVEL	47	51
BROWN CEMENTED SAND & GRAVEL	51	56
BLUE CEMENTED SAND & GRAVEL	56	76
BLUE CLAY	76	82
WATER BEARING SAND W/OCC GRAVEL	82	94
WATER BEARING FINE GRAVEL	94	107
BLUE SILTY SAND W/OCC GRAVEL	107	140

WELL CONSTRUCTOR 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.

NAME NORTHWEST PUMP & DRILLING

(Person, firm, or corporation) (Type or print)

ADDRESS 3245 AUBURN WAY SOUTH

[SIGNED] License No. 0097

Contractor's

Registration No. NORTHDPD137PO

Date 02/22/95

WATER WELL REPORT

STATE OF WASHINGTON

21/06-10-5
Application No
Permit No

(1) OWNER: Name Maple Glen Irrigation Address 32201 Kent-Black Diamond Rd SE
(2) LOCATION OF WELL: County King NE 1/4 NW 1/4 Sec 18 T. 21 N. R. C.W.M.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 85 ft. Depth of completed well 85 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 Diam. from 0 ft. to 85 ft.
Threaded ☐ Diam. from ft. to ft.
Welded ☒ Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐ Johnson 2' riser pipe
Manufacturer's Name Johnson
Type stainless steel Model No. telescopic
Diam. 5 Slot size 14 from 78 ft. to 85 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal mudding clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off.

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level
Static level 35 ft. below top of well Date 5-13-87
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" 9 " 30 " 2 1/2 "
" " " AIR JET "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown sand & gravel	0	10
Tan gravel & sand	10	18
Brown sand & clay gravel	18	24
Tan hardpan	24	31
Brown sand & clay gravel	31	39
Gray clay	39	72
Gray sand-water	72	85
Gray clay	85	—

Work started 5-11-87 Completed 5-13-87

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Johnson Drilling Co., Inc.
(Person, firm, or corporation) (Type or print)
Address 19415 108th Ave SE Renton 98055

[Signed] Bruce Johnson
(Well Driller)

License No. 0233 Date 5-13-87

WATER WELL REPORT

STATE OF WASHINGTON

21/00/100
Application No. 5

Permit No.

(1) OWNER: Name Maple Ridge Homeowners Association Address 184XX 324th SE Auburn
(2) LOCATION OF WELL: County King NE 1/4 NW 1/4 Sec. 18 T. 21 N. R. 6 W.M.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 89 ft. Depth of completed well 89 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 89 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal puddling clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: HP

(8) WATER LEVELS: Land-surface elevation ft.
above mean sea level
Static level 62 ft. below top of well Date 6-26-86
Artesian pressure lbs. per square inch Date
Artesian water is controlled by
(Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" 15 " 12 " 2 1/2 "
" " " AIRJET "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test: gal./min. with ft. drawdown after hrs.
Artesian flow: g.p.m. Date
Temperature of water: Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown sand	0	8
Brown sand & gravel	8	14
Brown clay - gravel	14	28
Brown hardpan	28	46
Brown sand & gravel	46	78
Brown water sand & gravel	78	89
Gray hardpan-clay	89	—

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JUL 15 1986

DEPARTMENT OF ECOLOGY
NORTHWEST REGION

Work started 6-25, 1986 Completed 6-26, 1986

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Johnson Drilling Co., Inc.
(Person, firm, or corporation) (Type or print)

Address 19415 108th Ave SE Renton 98055

[Signed] Brad Johnson
(Well Driller)

License No. 0233 Date 6-26, 1986

8047

E-13

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No.

W125804

AEP 813

6

(1) OWNER: Name BERG, ROBERT

Address 18761 AUBURN BLK DIAMOND AUBURN, WA 98092-

(2) LOCATION OF WELL: County KING

(2a) STREET ADDRESS OF WELL (or nearest address) 32529 188TH AVE SE

- SE 1/4 NW 1/4 Sec 18 T 21 N., R 8 WM

(3) PROPOSED USE: DOMESTIC

(10) WELL LOG

21-6E-18F

(4) TYPE OF WORK:

NEW WELL

Owner's Number of well
(If more than one) 1

Method: ROTARY

(5) DIMENSIONS:

Drilled 34 ft.

Diameter of well 6 inches

Depth of completed well 34.25 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6

WELDED

Dia. from +2 ft. to 32.08 ft.

Dia. from ft. to ft.

Dia. from ft. to ft.

Perforations: NO

Type of perforator used

SIZE of perforations

in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: YES

Manufacturer's Name

COOK

Type STAINLESS STEEL

Model No.

Diam. 6 slot size 20 from 29.25 ft. to 34.25 ft.

Diam. slot size from ft. to ft.

Gravel packed: NO

Size of gravel

Gravel placed from ft. to ft.

Surface seal: YES

To what depth? 18 ft.

Material used in seal BENTONITE

Did any strata contain unusable water? NO

Type of water?

Depth of strata ft.

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type

H.P.

(8) WATER LEVELS:

Land-surface elevation

above mean sea level ... ft.

Static level 13.5 ft. below top of well Date 08/18/00

Artesian Pressure lbs. per square inch Date

Artesian water controlled by

Work started 08/17/00

Completed 08/18/00

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? NO If yes, by whom?

Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time Water Level Time Water Level Time Water Level

Date of test 1/1

Bailer test 5 gal./min. 18.8 ft. drawdown after 1 hrs.

Air test gal./min. w/ stem set at ft. for hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? NO

WELL CONSTRUCTOR 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.

NAME HAYES DRILLING, INC.

(Person, firm, or corporation) (Type or print)

ADDRESS 5098 ERSKINE RD. BOW, WA

[SIGNED] *Steve Hayes* License No. 1149

Contractor's

Registration No. HAYESDI108J5

Date 08/25/00

7093

Original & 1st copy Ecology, 2nd copy owner, 3rd copy driller

☐ Construction

⑦ Decommission **ORIGINAL CONSTRUCTION** Notice
of Intent Number _____

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

☒ Driller ☐ Engineer ☐ Trainee Name (Print) Bruce Johnson

Driller/Engineer/Trainee Signature: Brian JohnsonDriller or Trainee License No 0233

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

Unique Ecology Well ID Tag No

Water Right Permit No

Property Owner Name Norma Beng

Well Street Address 18715 Auburn - BL Diamond Rd

City Auburn County King

Location SE 1/4 1/4 NW 1/4 Sec 18 Twn 21 R. 6 EWM circle or one
WWM

Lat/Long Lat Deg _____ Lat Min/Sec _____ WWM

REQUIRED) Long Deg. _____ Long Min/Sec _____

Tax Parcel No 182106-9009-01

CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation Describe by color, character, size of material and structure and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. Indicate all water encountered (USE ADDITIONAL SHEETS IF NECESSARY)

[illegible]

Start Date 3-24-04 Completed Date 3-25-04

Drilling Company Johnson Drilling Co., Inc.

Address 19415 108th Ave SE

City, State, Zip Repton, WA 98055

Contractor JOHN SDC 2076m
Registration No. _____ Date 3-25-04

Ecology is an Equal Opportunity Employer ECY 050-1 20 (Rev 4/01)

Bearing and distance from section or subdivision corner

ECY 050-1-20

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 211432

Water Right Permit No. 21/6/182

(1) OWNER: Name Ren Andrews Address 21608 SE 358th, Auburn

(2) LOCATION OF WELL: County King NE & SW Sec. 18 T. 21 N. R. 6 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) (same)

(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐
☐ Irrigation ☐ Test Well ☐ Other ☐
☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one)
Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 30 feet. Depth of completed well 25 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 Diam. from 0 ft. to 25 ft.
Welded ☒ Diam. from _____ ft. to _____ ft.
Liner installed ☐ Diam. from _____ ft. to _____ ft.
Threaded ☐ Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____
Static level 12 ft. below top of well Date 4-5-93
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Air test 15 gal./min. with stem set at 22 ft. for 2 1/2 hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Surface	0	3
Brown sand/gravel	3	8
Brown sand/clay	8	18
Brown water sand/gravel	18	25
Gray clay	25	30

RECEIVED

APR 23 1993

DEPT. OF ECOLOGY

Work started 4-5, 19 93 Completed 4-5, 19 93

WELL CONSTRUCTOR 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.

NAME Johnson Drilling Co., Inc.
(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 19415 108th Ave SE Renton

(Signed) Ben Johnson License No. 0233
(WELL DRILLER)

Contractor's Registration No. JOHNSDC20XSM Date 4-5, 19 93

(USE ADDITIONAL SHEETS IF NECESSARY)



WATER WELL REPORT

Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller

Construction/Decommission ("x" in circle)

☒ Construction

☐ Decommission ORIGINAL CONSTRUCTION Notice of Intent Number

146844

PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal
☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other

TYPE OF WORK: Owner's number of well (if more than one)
☒ New Well ☐ Reconditioned Method ☐ Dug ☐ Bored ☐ Driven
☐ Deepened ☐ Cable ☒ Rotary ☐ Jetted

DIMENSIONS: Diameter of well 6 inches, drilled 112 ft
Depth of completed well 112 ft

CONSTRUCTION DETAILS

Casing ☒ Welded 6 Diam from 0 ft to 9.3 ft
Installed: ☐ Liner installed Diam from _____ ft to _____ ft
☐ Threaded Diam from _____ ft to _____ ft

Perforations: ☐ Yes ☒ No

Type of perforator used
SIZE of perfs _____ in by _____ in and no of perfs _____ from _____ ft to _____ ft

Screens: ☒ Yes ☐ No ☒ K-Pac Location 91-92
Manufacturer's Name Johrson
Type Stainless Steel Model No tele
Diam 6 Slot Size 0.06 from 92 ft to 102 ft
Diam 6 Slot Size Blank from 102 ft to 112 ft

Gravel/Filter packed: ☐ Yes ☒ No ☐ Size of gravel/sand _____
Materials placed from _____ ft to _____ ft

Surface Seal: ☒ Yes ☐ No To what depth? 18 ft

Materials used in seal bentonite

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

PUMP: Manufacturer's Name _____

Type _____ H P _____

WATER LEVELS: Land-surface elevation above mean sea level _____ ft

Static level 28 ft below top of well Date 3-12-04

Artesian pressure _____ lbs per square inch Date _____

Artesian water is controlled by _____ (cap, valve, etc)

WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom? _____

Yield _____ gal/min with _____ ft drawdown after _____ hrs

Yield _____ gal/min with _____ ft drawdown after _____ hrs

Yield _____ gal/min with _____ ft drawdown after _____ hrs

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CURRENT

Notice of Intent No. W159084

Unique Ecology Well ID Tag No. AHH-478

Water Right Permit No. _____

Property Owner Name Dan Parnell

Well Street Address 33252 190th Ave SE

City Albany County King

Location NW 1/4 1/4 SE 1/4 Sec. 18 Twn. 21 R. 6 ☒ WWM ☐ Circle or one

Lat/Long: Lat Deg _____ Lat Min/Sec _____

(S, L, R still REQUIRED) Long Deg _____ Long Min/Sec _____

Tax Parcel No. 1796000060

CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. Indicate all water encountered (USE ADDITIONAL SHEETS IF NECESSARY)

MATERIAL	FROM	TO
surface	0	3
sand-gravel-brown	3	7
clay-gravel-brown	7	23
sand-gravel-brown	23	26
clay brown	26	30
sand-gravel-gray	30	33
clay-gray	33	92
sand-fine-gray-seepage	92	103
silty gray clay	103	112
clay-gray	112	

RECEIVED

MAR 24 2004

DEPT OF ECOLOGY

Start Date 3-5-04 Completed Date 3-12-04

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

☒ Driller ☐ Engineer ☐ Trainee Name (Print) Brian Johnson

Driller/Engineer/Trainee Signature Brian Johnson

Driller or Trainee License No 0233

If trainee, licensed driller's _____

Signature and License no. _____

Drilling Company Johrson Drilling Co. Inc.

Address 19415 108th Ave SE

City, State, Zip Renton, WA 98055

Contractor's Registration No. JOHNSON2020QM Date 3-12-04

Ecology is an Equal Opportunity Employer ECY 050-1-20 (Rev 4/01)

WATER WELL REPORT STATE OF WASHINGTON

Start Card No. 035192
Water Right Permit No.

(1) OWNER: Name BROWN, MARK Address 18604 SE 104 PL RENTON, WA 98058-
(2) LOCATION OF WELL: County KING - NW 1/4 SE 1/4 Sec 18 T 21 N., R 6 WK
(2a) STREET ADDRESS OF WELL (or nearest address) SE 180 OFF LI BOLD RD

(3) PROPOSED USE: DOMESTIC

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well (If more than one) Method: ROTARY
NEW WELL

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 80 ft. Depth of completed well 40 ft.

MATERIAL	FROM	TO
TOPSOIL	0	1
BROWN SAND & GRAVEL	1	9
BROWN GLACIAL TILL	9	19
BROWN CEMENTED SAND & GRAVEL	19	25
BLUE GLACIAL TILL	25	31
BLUE CEMENTED SAND & GRAVEL	31	60

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 60 ft.
WELDED " Dia. from ft. to ft.
" Dia. from ft. to ft.

Perforations: YES
Type of perforator used ROTARY STAR
SIZE of perforations 3/16 in. by 1 in.
200 perforations from 30 ft. to 40 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: NO
Manufacturer's Name Type Model No.
Diam. slot size from ft. to ft.
Diam. slot size from ft. to ft.

Gravel packed: NO
Gravel placed from ft. to ft. Size of gravel ft.

Surface seal: YES To what depth? 18 ft.
Material used in seal BENTONITE CLAY
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off N/A

(7) PUMP: Manufacturer's Name Type N/A H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 15 ft. below top of well Date 08/07/89
Artesian Pressure lbs. per square inch Date
Artesian water controlled by N/A

Work started 08/06/89 Completed 08/07/89

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? NO If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

WELL CONSTRUCTOR 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.

Recovery data
Time Water Level Time Water Level Time Water Level

NAME NORTHWEST PUMP & DRILLING
(Person, firm, or corporation) (Type or print)

ADDRESS 1945 HURDWAY SOUTH

{SIGNED} R. B. DeLano License No. 0097

Contractor's Registration No. NORTHWD13YDQ Date 08/09/89

Date of test 1/1
Bailer test gal./min. ft. drawdown after hrs.
Air test 20 gal./min. w/ stem set at 40 ft. for 2 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? NO

AUG 14 1989

DEPARTMENT OF GEOLOGY
NORTHWEST

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 9

Permit No.

(1) OWNER: Name PAUL MOFFETT Address 15721 SE 171st Place, Renton, WA 98055

(2) LOCATION OF WELL: County KING N4 1/4 SE 1/4 Sec 18 T 21 N, R 6 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 31 ft. Depth of completed well 31 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 31 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used.....
SIZE of perforations in. by in.
..... perforations from ft. to ft.
..... perforations from ft. to ft.
..... perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name.....
Type..... Model No.....
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal bentonite & cement
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata.....
Method of sealing strata off.....

(7) PUMP: Manufacturer's Name.....
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level....
Static level 4 ft. below top of well Date 2/11/83
Artesian pressure lbs. per square inch Date.....
Artesian water is controlled by..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?.....
Yield: gal./min. with ft. drawdown after hrs.

" " " " " "
" " " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 45 gal./min. with 6 ft. drawdown after 1 hrs.
Bailer test.....
Artesian flow..... g.p.m. Date.....
Temperature of water..... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
topsoil, brown, dry	0	1
glacial till, brown, damp	1	9
sand & gravel, brown, wet	9	19
water bearing sand & gravel	19	31

Work started 2-11-83, 19..... Completed 2-11-83, 19.....

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME NORTHWESTS PUMP & DRILLING CO.
(Person, firm, or corporation) (Type or print)

Address 3245 Auburn Way South, Auburn, WA 98002

[Signed] R.B. DeRamus
(Well Driller)

License No. 0097 Date 2/17/83, 19.....

(USE ADDITIONAL SHEETS IF NECESSARY)