GROUNDWATER MONITORING PROGRAM

Program Update - December 2008

City of Bainbridge Island
Bainbridge Island, Washington

Prepared for: City of Bainbridge Island

Project No. 060016-003-02 • December 2008 (revised March 2009)

GROUNDWATER MONITORING PROGRAM

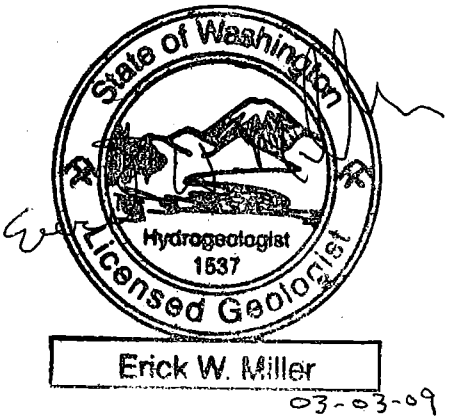
Program Update - December 2008

City of Bainbridge Island
Bainbridge Island, Washington

Prepared for: City of Bainbridge Island

Project No. 060016-003-02 • December 2008 (revised March 2009)

Aspect Consulting, LLC



Joseph S. Lubischer, PE
Project Engineer
jlubischer@aspectconsulting.com

Erick W. Miller, LHG
Senior Associate Hydrogeologist
emiller@aspectconsulting.com

W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\Final\COBI GMP Report 12-08 rev3 (3_03_09).doc

179 Madrone Lane North Bainbridge Island, WA 98110 Tel: (206) 780-9370 Fax: (206) 780-9438 www.aspectconsulting.com

a limited liability company

Contents

Executive Summary **1**
Work Accomplished 2006-2008 1
Early Warning Levels and Management Responses 1
Evaluation of Aquifer Conditions 2
Recommendations 3
Acknowledgments 3

1 Introduction **4**

2 Monitoring Network and Database Descriptions **5**
2.1 Bainbridge Island Aquifers 5
2.2 Description of Current Monitoring Well Network 6
2.3 Description of Database 7

3 Summary of Monitoring Data **8**
3.1 Aquifer Water Levels 8
3.1.1 Precipitation 8
3.1.2 Collected Water Level Data 9
3.1.3 Tidally Influenced Groundwater Heads 9
3.2 Seawater Intrusion Indicators 10
3.2.1 Specific Conductance 10
3.2.2 Chloride Concentration 10
3.3 Groundwater Production 11

4 Early Warning Levels and Management Responses **12**
4.1 Overview 12
4.2 Early Warning Levels 12
4.2.1 Seawater Intrusion 12
4.2.2 Safe Yield 13
4.3 Management Responses to Exceedances of EWLs 13
4.3.1 Seawater Intrusion 13
4.3.2 Water Level 14

5 Discussion of Aquifer Conditions **15**
5.1 Perched Aquifer 15
5.2 Semi-Perched Aquifer 15
5.3 Sea Level Aquifer 15
5.4 Glaciomarine Aquifer 16

5.5 Fletcher Bay Aquifer 16
5.6 Bedrock Aquifer 18

6 Recommendations 19

References 20

Limitations 21

List of Tables

1 Summary of Current Groundwater Monitoring Wells 6

List of Figures

1 Groundwater Monitoring Well Network
2 Cumulative Rainfall Departure
3 Perched Aquifer Hydrographs
4 Semi-Perched Aquifer Hydrographs
5 Sea Level Aquifer Hydrographs
6 Glaciomarine Aquifer Hydrographs
7 Fletcher Bay Aquifer Hydrographs – All Wells
8 Fletcher Bay Aquifer Hydrographs – Central Wells
9 Fletcher Bay Aquifer Hydrographs – Peripheral Wells
10 Bedrock Aquifer Hydrographs
11 Historic Chloride Concentrations in Groundwater
12 Historic Groundwater Withdrawals

List of Appendices

A Monitoring Well List and Well Logs
B Groundwater Level Trend Analysis and Monitoring Well Hydrographs with Production and Chloride Data

Executive Summary

A Groundwater Monitoring Program (GMP) for the City of Bainbridge Island (City, COBI) was established in 2006 that expanded previous monitoring efforts and centralized data acquisition (Aspect, 2006b). Since 2006, the monitoring network of 43 monitoring wells has been expanded to 103 wells to address gaps in the monitoring network and to support groundwater modeling efforts by the U.S Geological Survey (USGS). The USGS initiated work on their groundwater model in 2006. Results of the model will assist water resource managers and stakeholders in the evaluation of management options and the development of a watershed management plan.

This report describes the expanded monitoring network, evaluates trends in groundwater levels and chloride concentrations (an indicator of seawater intrusion), and compares those parameters with provisional Early Warning Levels (EWLs) to identify areas of potential concern where more evaluation is warranted. The report presents analysis of on-going data collection performed through the groundwater monitoring program. The analysis was limited to information compiled by the COBI. A more comprehensive data analysis was beyond the scope of this effort and recommendations are provided for further investigation. This work was performed under our scope of services with COBI dated March 12, 2008.

Work Accomplished 2006-2008

Since 2006, water level data has been collected by the City with support from Aspect Consulting, LLC (Aspect) and the USGS on a monthly basis for private and small water systems. Data for the larger water systems continue to be collected by the purveyors and submitted for inclusion in COBI's groundwater database on a voluntary basis.

The database was initially developed in 2006 to allow for storage and analysis of Island-wide groundwater data collected from multiple parties. Since 2006, the database has been updated to support additional data formats, enhanced graphing, and mapping functionality. The database is periodically updated with water level, chloride concentration, production volume, and rainfall data.

Early Warning Levels and Management Responses

Primary groundwater-related concerns on Bainbridge are the risk of seawater intrusion, especially in coastal areas, and pumping rates above the aquifer's safe yield. Provisional EWLs and Management Responses were suggested for seawater intrusion and safe yield in 2006 (Aspect, 2006b) and are updated herein. EWLs provide specific criteria that will trigger actions by the City. The Management Responses provide the City with a structure of appropriate and sequential monitoring and investigative activities that would lead, if necessary, to protective or remedial actions. The emphasis at this time is on the monitoring and investigative activities.

The provisional EWL for seawater intrusion uses chloride concentration as an indicator. The recommended EWL was modified in this report to be a chloride concentration at or above 100 milligrams per liter (mg/L) or any increasing trend in chloride concentration. For elevated chloride concentrations, the recommended categories of Management Responses are:

- Confirmation of the data;
- Determination of the extent of elevated concentrations; and
- Identification and implementation of protective or remedial actions.

The provisional EWL for safe yield was set as an observable drop in water level, at or above ½ foot per year for 10 years, which cannot be explained by variations in precipitation. The suggested Management Responses are to:

- Confirm and characterize the problem; and
- Identify and implement protective or remedial actions.

Specific elements for the Management Responses are provided in Section 4.2 and encompass a wide range of investigative techniques and alternative actions. Investigative tools include increased sampling, additional monitoring, acquisition and review of production data, neighborhood interviews, aquifer analysis, and/or groundwater modeling. Possible actions would require discussion with the public, water purveyors, and public agencies and, depending on the severity of a situation, could include information dissemination, water metering, water conservation, limitations on well drilling, development of water system interties, and/or development of alternate water supplies.

Evaluation of Aquifer Conditions

The available data for chloride concentrations on Bainbridge Island has typically shown isolated incidences of elevated chloride concentrations. In most cases, the elevated chloride data is older data and often consists of a single measurement. These historic high chloride values need to be confirmed. For many areas along the shoreline, chloride concentrations data is lacking entirely and additional investigations are recommended to determine the current near-shore chloride levels in Island aquifers.

For safe yield, the available data does not indicate any concerns at this time in monitored wells for the Perched Aquifer, Semi-Perched Aquifer, Sea Level Aquifer, or Glaciomarine Aquifer. However, one well in the Sea Level Aquifer (North Bainbridge Well 7) did exhibit a long-term decline through 2004, at which time pumping from this well was reduced.

Large production wells in the Fletcher Bay Aquifer, specifically Sands Road 1, Sands Road 2, and North Bainbridge Well 9, have in the past exhibited declining water level trends that suggest production may have exceeded recharge. The Sands Road and North Bainbridge wells appear to show stabilized water levels since about 2005. Water levels in Island Utilities Well 1 have declined approximately 15 feet since the first available measurement in 1988. Water levels in this well declined from 1988 to 1995, showed a slight increase from about 1995 to 2000, and declined from 2000 to 2008. Island Utilities

reports that Well 1 was used as a production well until 1999 and since that time has been used for water level monitoring (Scott Shelton, personal communication to COBI, February 2009).

The water level decline observed at the Island Utilities Well 1 exceeds the provisional EWL for safe yield and is of concern. Although water levels in the North Bainbridge and Sands Road wells may have stabilized over the past 3 years, continued attention is warranted as these wells are large producers and in the past may have been pumped at rates that exceeded recharge.

Recommendations

In order to strengthen and improve the GMP, the following recommendations are made:

1. Implement Management Responses for safe yield in the Fletcher Bay Aquifer near Eagledale. As an initial step, this should include obtaining and evaluating production and chloride data for the Island Utilities wells;
2. Closely monitor production and water levels for several Fletcher Bay Aquifer wells (North Bainbridge Well 7, Sands Road 1, Sands Road 2, North Bainbridge Wells 9 and 10) and for one Sea Level Aquifer well (North Bainbridge 7), particularly during changes in production;
3. Survey chloride levels in wells completed within ¼ mile of the shoreline to investigate the areal extent of elevated chlorides. This survey should include investigation of elevated chloride concentrations in the Seabold area and confirmation of historic, single-time elevated chloride measurements;
4. Evaluate chloride levels by aquifer. Determine correlation curves between chloride concentration and specific conductance by aquifer. Identify data gaps and test additional wells as necessary;
5. Identify any significant tidal influence on water levels in near-shore wells. Where necessary, characterize the tidal effect and adjust water level data accordingly;
6. Monitor chloride levels in the deeper Head of the Bay Wells 4 and 6 whose location and depth, respectively, will provide early warning of seawater intrusion; and
7. Acquire production data for additional private well systems to build as complete a record as possible of total groundwater withdrawals.

Acknowledgments

This GMP was made possible by the cooperation of many owners of Island wells and water systems and by inter-agency assistance from Kitsap Public Utility District (KPUD) staff and the Operations and Maintenance staff at COBI Public Works (COBI O&M). Their contributions are gratefully acknowledged.

1 Introduction

This report presents an update of results from the City of Bainbridge Island (City, COBI) Groundwater Monitoring Program (GMP). A monitoring network was developed in 2006 that expanded and consolidated the groundwater monitoring being performed at that time by water purveyors on Bainbridge Island. Several entities–the City, Kitsap Public Utility District (KPUD), and some private water systems–monitored water level and water quality parameters at a number of wells.

Data from the monitoring well network is compiled into a single database. The database contains historic and future water level data, chloride concentrations, specific conductivity, production volumes, where available, and precipitation records.

The collected monitoring information is used to inform and advise water managers, both public and private, regarding issues of saltwater intrusion and safe yield and is also being used to support development of a groundwater model being developed by the United States Geological Survey (USGS). The data is shared via the City's website and through public meetings. Participation in the program is voluntary.

Work completed by Aspect under this project from 2006 to 2008 includes the following items:

- Assisting COBI with monthly water level measurements;
- Database functionality improvements and assisting COBI with data uploads; and
- Evaluating water level trends and chloride data, presented herein.

This report:

- Describes the current monitoring well network and the database (Section 2);
- Summarizes data collected to date (Section 3);
- Provides an overview of provisional "Early Warning Levels" (EWLs) based on groundwater level change and chloride criteria (Section 4);
- Evaluates water level trends and chloride data (Section 5); and
- Makes recommendations to follow-up on wells where provisional EWLs are triggered and recommendations necessary to ensure continued success of the Groundwater Monitoring Program (Section 6).

2 Monitoring Network and Database Descriptions

2.1 Bainbridge Island Aquifers

The Level II Basin assessment (Kato & Warren and Robinson & Noble, 2000) identified six principal aquifers on Bainbridge Island:

1. **Perched Aquifer System (PA)** – This aquifer is comprised predominantly of Vashon Advance glacial outwash at higher elevations (> 200 feet above mean sea level [ft MSL]) and is utilized predominantly by domestic wells. About 4 percent of wells are reported to be completed in this unit.
2. **Semi-Perched Aquifer System (SPA)** – The semi-perched aquifer consists of wells typically completed between 100 and -20 ft MSL. About 25 percent of wells are reported to be completed in this unit.
3. **Sea Level Aquifer (SLA)** – This aquifer is present from 40 to -230 ft MSL and is the most widely utilized aquifer system on the Island. Fifty-three percent (53%) of wells are completed in the SLA.
4. **Glaciomarine Aquifer System (GMA)** – This aquifer reportedly consists of water bearing units within a thick sequence of fine-grained glaciomarine drift. Wells in this aquifer are typically completed between -400 and -760 ft MSL. Several of the Island's deep production wells and at least 4 domestic wells are completed in this aquifer, representing about 2 percent of wells.
5. **Fletcher Bay Aquifer System (FBA)** – The FBA is the deepest identified aquifer on Bainbridge Island. Several large production wells are completed in this aquifer including the Fletcher Bay Well. Wells in this aquifer are typically completed between about -690 to -1,010 ft MSL. While representing only about 1 percent of wells on Bainbridge Island, the metered KPUD and COBI FBA wells provide approximately 30 percent of the estimated total Island groundwater production.
6. **Bedrock Aquifer System** –Less than 1 percent of the wells are completed in the sedimentary Blakely Harbor and Blakeley formations on the south end of Bainbridge Island.

Other wells on Bainbridge Island are either completed in water bearing zones within confining units or have an indeterminate aquifer completion zone. In assigning wells in the monitoring network to a given aquifer, the determination of the aquifer was made by comparing screen elevation with aquifer elevation and by comparing well location with lateral extent of an aquifer as shown in the Level II Basin Assessment (Kato & Warren and Robinson & Noble, 2000).

2.2 Description of Current Monitoring Well Network

Existing groundwater monitoring by KPUD, COBI, and private purveyors provided the starting point for development of the groundwater monitoring network in 2006. Approximately 29 wells at 20 locations are monitored by KPUD and by the Operations and Maintenance group in the City's Department of Public Works. KPUD collects manual water levels and has a number of continuously recording pressure transducers. KPUD also analyzes samples for chloride concentration, currently on a semi-annual basis. COBI Operations and Maintenance monitors water levels quarterly and has installed pressure transducers in a number of wells. Several private purveyors also monitor their wells.

Prior to the GMP, the data acquired for Bainbridge Island was not compiled in a single location. Rather, records were kept separately by the City, KPUD, and private water system operators. The monitoring network was expanded in 2006 to 43 wells to improve geographic coverage, focusing on areas with large groundwater withdrawals, elevated chloride concentrations, and near shorelines. This initial monitoring network was expanded in 2007 to a total of 103 wells by COBI and USGS in order to improve characterization of Island aquifers for the groundwater model.[1]

Figure 1 presents the expanded monitoring well network, which currently consists of 103 wells in six aquifers. The distribution of monitoring wells by aquifer is summarized in Table 1.

Table 1 - Summary of Current Groundwater Monitoring Wells

Aquifer	Number of Wells
Perched Aquifer	26
Semi-Perched Aquifer	10
Sea Level Aquifer	49
Glaciomarine Aquifer	7
Fletcher Bay Aquifer	9
Bedrock Aquifer	1
Undetermined	1
Total	**103**

[1] In addition, COBI and USGS monitor stream flow at 19 locations on Bainbridge Island.

The present monitoring network has a good distribution of monitoring wells in the PA SPA, and SLA aquifers. For the GMA and FBA aquifers, nearly all these deep wells are monitored. The south Island area–South Beach and Blakely Harbor–is predominately bedrock and is monitored by one well.

Water levels are monitored manually in the 103 wells. In addition, water levels in 14 of 103 wells are recorded with electronic pressure transducers and dataloggers. Chloride concentration and specific conductance (electrical conductivity) are measured in 29 wells. COBI engineering staff monitors water levels in 72 wells on a monthly basis. Water levels in 31 municipal supply wells and related monitoring wells are monitored by KPUD and COBI O&M staff. A complete listing of wells is presented in Appendix A (Table A-1). Well locations and elevations have been surveyed for almost all wells in the monitoring network.

2.3 Description of Database

A database using Microsoft® Access 2002 has been created to combine:

- Well identification, drilling logs, completion zone by aquifer, and location information;
- Manual and electronic water level data;
- Water quality data (chloride concentration and specific conductance);
- Production volumes; and
- Precipitation records.

The database is updated on monthly basis by COBI for wells monitored by COBI Engineering and annually for data provided by COBI O&M and KPUD. Since 2006, the database has been updated to support additional data formats, enhanced graphing, as well as mapping functionality.

3 Summary of Monitoring Data

3.1 Aquifer Water Levels

Static water level is the basic measurement of the quantity of water in an aquifer. On Bainbridge Island, groundwater levels are largely affected by recharge from infiltrating precipitation, discharges to surface water (including saltwater bodies), and withdrawals (pumping). Water levels fluctuate naturally in response to seasonal variations in precipitation and to multi-year trends in precipitation. Exceeding the safe yield of an aquifer can cause seawater intrusion or lower groundwater heads with impact on wetlands, springs, or creeks. Examination of water level trends requires simultaneous comparisons with multi-year precipitation trends, withdrawal histories, and land use changes. A water level decline, due to a recent increase in pumping rate and/or withdrawal volume, may represent an aquifer's short term response to a change in stress until a new equilibrium is reached, whereas withdrawal in excess of the long-term average recharge will result in a water level decline that will not stabilize. Prediction of future water level changes is most readily addressed through groundwater modeling, which incorporates assumptions about precipitation patterns, climate change, water usage patterns, population growth, and changes in land use, and is a level of analysis beyond the scope of this effort.

3.1.1 Precipitation

Precipitation is used as a measure of potential recharge to groundwater aquifers. Viewing the graph of precipitation over time indicates wetting or drying periods that influence groundwater levels.

3.1.1.1 Cumulative Rainfall Departure

Evaluation of natural seasonal and long-term groundwater level trends in an aquifer will be dependent on the recharge to that aquifer. Aquifer recharge is a function of precipitation with more recharge typically occurring during wetter years and less recharge during drier years[2]. The precipitation gage at Seattle Tacoma International Airport (STIA) was used to provide precipitation data for analysis of water level trends. The STIA precipitation gage was selected based on its continual precipitation record, good correlation with Commodore Middle School gage on Bainbridge Island, similar magnitude of precipitation as Commodore Middle School gage, and an extended record dating back to the 1950s (Aspect, 2006a).

In a natural system, water level trends will rise during periods of above average precipitation and decline during periods of below average precipitation. Seasonal and long-term precipitation trends (i.e., determination of periods that are above or below average precipitation) can be evaluated through use of the cumulative rainfall departure (CRD) curve.

[2] Exceptions to this include high intensity rainfall events where a significant portion goes to runoff.

A graph of cumulative rainfall departure (CRD) from average precipitation for the period from 1975 through September 2008 is presented in Figure 2 and also included on the hydrographs in Appendix B. This period covers the period of record for most of the routinely monitored wells on Bainbridge Island. The CRD graph is constructed by calculating the mean monthly precipitation value for the period of interest (3.04 inches for 1975-2008), computing the departure (difference) from the calculated mean for each month, and plotting the cumulative sum of the departures.

Downward slopes in the CRD curve indicate periods of below normal precipitation and upward slopes indicate periods of above average precipitation. Changes in slope occur on a seasonal and long-term basis. Seasonally, an upward trend typically occurs during the wetter winter months and a downward trend typically occurs during the dryer summer months (Figure 2).

On a long-term basis, multi-year periods of above or below average precipitation are also indicated by the slope of the CRD curve. Downward slopes indicate several years of below average precipitation and upward slopes indicate above average precipitation. For example, the downward trend in the CRD curve between 1984 and 1989 indicates 5 consecutive years of below average rainfall (Figure 2). Conversely, the CRD curve shows an upward slope for the period from 1995 through 1999 indicating above average precipitation (Figure 2). Natural fluctuations in water levels are expected to follow the CRD curve with water level rising during periods of above average precipitation and declining during periods of below average precipitation.

3.1.2 Collected Water Level Data

Water level data from all entities participating in the monitoring program are entered into the database. All manual measurements are entered, but continuous electronic data is filtered to include only the highest reading during the course of a day. Measurements are adjusted in the database to give water elevation in feet above mean sea level (NAVD 88)[3]. As of this report, all but a few of the well elevations have been surveyed.

Water level data (hydrographs) for the monitoring wells in each aquifer are presented in Figures 3 through 11. For ease of interpretation, Figures 8 and 9 show the FBA hydrographs segregated into two well groups based on similarity in water level changes.

The hydrographs and well production data for all wells are presented individually in Appendix B, where they are sorted by aquifer. The plots in Appendix B also show the "cumulative rainfall departure" curve.

See Section 5 for a discussion of current aquifer conditions.

3.1.3 Tidally Influenced Groundwater Heads

Tides have the potential to significantly affect water levels in coastal wells. These tidally induced changes could mask true water level trends and result in misinterpretation of long-term trends. Other than the EPA/Wyckoff Well, the tidal influence on wells in the monitoring network has not been determined. Routine water level data should be evaluated for irregularities in the seasonal pattern that may be attributed to tidal

[3] The elevation datum was changed from NGVD 29 to NAVD 88 since the previous report.

fluctuations, particularly for wells located within a ¼ mile of the coastline and completed below sea level. Determination of mean water level in tidally influenced wells requires measurement of water level over a period of time, typically for a 1- to 3-day period (Serfes, 1991). For wells where a tidal influence is suspected, use of a downhole transducer and datalogger is recommended to make a series of level measurements during a non-pumping period. The extent of tidal influence on Island wells should be investigated, initially by inspection of the monthly measurement data. Wells where tidal influence is determined to have the potential to lead to misinterpretation of water level trends should be evaluated through detailed water level measurements.

3.2 Seawater Intrusion Indicators

The primary indicator used for seawater intrusion is chloride concentration. Concern with possible intrusion is limited to aquifers below sea level, that is the SPA, SLA, GMA, and FBA systems. Chloride concentrations are shown collectively in Figure 11 and on the individual well hydrographs in Appendix B.

3.2.1 Specific Conductance

Specific conductance of the water usually correlates well with chloride concentration and can therefore be used as a surrogate measure for chloride level. Accurate measurement of chloride concentration requires laboratory analysis, whereas specific conductance can be quickly and accurately measured in the field. The correlation between chloride and specific conductance needs to be verified for each aquifer regime. After the correlation relationship between specific conductance and chloride concentration has been determined, the specific conductance will then serve as a surrogate measurement for laboratory determination of chloride levels. We recommend that the correlation be made for each aquifer.

3.2.2 Chloride Concentration

A geographically comprehensive investigation of chloride has not been performed on Bainbridge Island. Most routine monitoring for chloride began in the mid-1990s and was expanded as part of the groundwater management plan in 2006 to include 29 wells. Historic data on chloride concentrations (Figure 11) was compiled and reported in the Groundwater Baseline memorandum (Aspect, 2006a). Nine wells within ¼ mile of the coastline and two inland wells exhibited elevated chloride levels. Most of the wells with elevated chloride had only single measurements. Additional sampling is necessary to determine if those measurements are repeatable. In addition, we recommend that a set of wells, located within a ¼ mile of the coastline and completed below sea level, be identified for specific conductance and/or chloride measurements. A more comprehensive geographic distribution of wells with chloride data will be useful for identifying regional areas of seawater intrusion.

3.3 Groundwater Production

Where available, the production data for monitored wells are presented in Figure 12 and also in the individual well hydrographs in Appendix B. We recommend that additional production data be solicited from private water systems with metered wells.

Available production data is summarized in the inset bar chart in Figure 12 subdivided into COBI and KPUD wells. 2005 was the last year with a complete production record available for KPUD wells and so no data is presented after this year. The chart indicates a decline in total production from COBI and KPUD from a high of 400 million gallons in 2003 to a low of slightly more than 350 million gallons in 2005. Since 2005, total COBI water use has shown a slight increase, but is still less than 2004 levels.

4 Early Warning Levels and Management Responses

4.1 Overview

For the purpose of the GMP, an EWL is a monitoring criteria that, if exceeded, would result in appropriate Management Reponses. Responses would be of two types: (1) additional investigations in order to determine if a potential problem is developing, and (2) protective or remedial actions where appropriate. Possible investigations could include additional data evaluation, expanded monitoring, problem specific technical review and analysis, or modeling. Possible actions may include water conservation, limitations on new wells, or development of alternate water supplies.

The purpose of specifying EWLs is to provide quantifiable measures for initial evaluation of data that will provide timely warning of a developing issue before a problem becomes acute. Provisional Early Warning Levels were developed in the initial Groundwater Management Program report (Aspect, 2006b) and are modified below. The reader is referred to the 2006 report for additional information on the development of provisional EWLs.

The purpose of Management Responses is to provide the City with a structure of appropriate and sequential monitoring and investigative activities that would lead, if necessary, to protective or remedial actions. The emphasis at this time is on the monitoring and investigative activities.

4.2 Early Warning Levels

4.2.1 Seawater Intrusion

The concentration of chloride (chlorine ion) is used as the indicator parameter for seawater intrusion because chloride is nonreactive and is not easily adsorbed onto the aquifer matrix. Background levels of chloride in groundwater on Bainbridge Island are still being evaluated, but at this time an interim level of 30 mg/L is suggested for data evaluation.

The proposed EWL for sea water intrusion is amended in this report as follows: **-A chloride concentration at or above 100 mg/L or any increasing trend in chloride concentration**. The 100 mg/L level is based on Ecology's draft *Seawater Intrusion Policy* (Washington DOE, 1990).

Trends should be categorized as increasing, stable, decreasing, or undetermined. A determination of increasing or decreasing trend would require at least 4 consecutive samples or samples taken over at least a 1-year period with seasonality taken into account. A stable determination would require examination of data over a 3-year period.

4.2.2 Safe Yield

The EWL for safe yield is a long-term drop in water level that is not attributable to seasonal or year-to-year variations in precipitation. For quantitative comparison, **a decline rate of ½ foot per year or greater over a 10-year period** is considered cause for follow-up responses.

A useful tool is comparison of well hydrographs with the (CRD) departure curve (Section 3.1.1). Water levels that do not rise during wet periods or that decline during periods of near average precipitation would be cause for concern. Evaluation of potential impacts from long-term water level declines is best addressed through a numerical groundwater model.

4.3 Management Responses to Exceedances of EWLs

4.3.1 Seawater Intrusion

The purpose of the GMP, with respect to seawater intrusion, is to provide the City with a structure of appropriate monitoring actions for cases where elevated chloride concentrations are observed.

For elevated chloride concentrations, the proposed Management Responses are confirmation, determination of extent, and identification and implementation of actions.

1. **Confirmation** is intended to verify the data and reject spurious values. Steps include comparing chloride values with specific conductance readings, increasing frequency of chloride testing to quarterly and inspecting data for seasonality effects. Confirmation should require four consecutive elevated readings over at least a 1-year period.

2. **Determination of extent** requires increased monitoring in order to characterize the nature and extent of elevated readings. New monitoring wells may need to be identified and added to the network. Focused monitoring would initially identify wells between the high chloride well and the coastline and secondarily investigate lateral extent up and down the coast. Collection of metering data, if available, will be useful in future analysis.

   Appropriate analysis is dependent on the situation and may include comparison of well completion elevations and distances from the coast with chloride levels; refinement of hydrogeological interpretations; consultation with purveyors, Ecology, Washington State Department of Health (DOH) and/or Kitsap County Health District; neighborhood interviews; and/or comparison with results of groundwater modeling.

3. **Identification and implementation of actions** would be required for situations where confirmation and determination of extent indicate seawater intrusion is occurring. Remedial measures would be defined and recommended as appropriate and in consultation with Washington State DOH, Kitsap Health Department and Ecology. In order to protect an aquifer from further degradation, recommended actions may include additional focused monitoring or groundwater modeling, water

metering, water conservation, limitations on well drilling, development of system interties, or development of alternate water supplies.

4.3.2 Water Level

An EWL for safe yield is proposed as a decline of ½ foot per year or greater over a 10-year period for drops in water level unexplained by seasonal or year-to-year variations in precipitation.

If water level data for a well indicate exceedance of the EWL, the following Management Responses are recommended:

Confirmation and characterization of a problem and identification and implementation of protective or remedial actions.

1. **Confirmation and characterization** of a safe yield problem will require the following steps:
    - Analyze the data on an aquifer basis by comparing well hydrographs within the aquifer and with the CRD curve;
    - Compare hydrographs with production data and acquire additional production and chloride data as necessary;
    - Determine the area of impact by water level observations in other nearby wells and calculation of the zone of contribution;
    - Consider addition of monitoring wells to the existing network; and
    - Evaluate long-term impacts with the groundwater model.
2. **Identification and implementation of actions** for aquifer protection will be necessary for situations where continued withdrawals indicate that mining of the aquifer is occurring. Possible actions include additional focused monitoring or groundwater modeling, water metering, water conservation, limitations on well drilling, development of water system interties, and/or development of alternate water supplies. Monitoring data and modeling results would be used to evaluate the effectiveness of different proposed actions. To identify the most appropriate actions, the City should disseminate information to the public and affected parties, enter into discussions with primary purveyors, encourage water conservation, and notify Washington State DOH, Kitsap Health Department, and Ecology. If necessary, regulatory responses could be considered in order to implement recommended protective or remedial actions.

5 Discussion of Aquifer Conditions

This section presents an evaluation of historic and recently collected water level and chloride data by aquifer.

5.1 Perched Aquifer

The available water level data for the Perched Aquifer wells is plotted in Figure 3. Two wells with long term water level history (Bloedel Reserve Farm Well and North Bainbridge Well 8) exhibit strong responses to precipitation trends, both seasonally and long-term. The responses to a series of wet years from about 1995 to 2000 in these two wells were increases of water levels of about 10 to 30 feet. Water levels decline from 2000 to 2005 and then increase after 2005, consistent with the CRD curve.

Average seasonal water level fluctuations from October 1, 2007 through October 1, 2008 (Water Year 2008 or WY 2008) in the PA are typically lower than other aquifers, suggesting slightly greater storativity (water yielded or recharged per foot of water level change). Water level elevations in the PA are the highest of any of the aquifers consistent with the position of this aquifer at the top of the recharge system. No long-term declines are observed.

5.2 Semi-Perched Aquifer

Hydrographs for the Semi-Perched Aquifer (Figure 4) also show responses to seasonal and long-term changes in precipitation, but the magnitude of long-term response, less than 10 feet, is about one-half of that observed for the Perched Aquifer (for example, see North Bainbridge Well 1, High School Well #2/Commodore, and Meadowmeer Water System Well 1, Figure 4). Declines on the order of about 3 feet occurred between 2000 and 2005 and since 2005 water levels have stabilized or increased consistent with CRD trends.

Chloride levels have been measured in the High School Well #2/Commodore Well and more recently in Eagledale Park and Cedar Lane wells (Figure 11). Consistent with the position of this aquifer, generally above sea level, chloride concentrations are less than 10 mg/L and show no evidence of seawater intrusion.

5.3 Sea Level Aquifer

Figure 5 presents hydrographs for wells completed in the Sea Level Aquifer. North Bainbridge Wells 3 and 7 have the greatest production of the three North Bainbridge SLA wells. North Bainbridge Well 7 shows a 10-year water level decline from 1995 through 2005 that does not follow the trend of the CRD curve and is attributed to production; however, Wells 3 and 6 tend to follow the CRD curve, showing a slight increase during the 1995 to 2000 wet period followed by a decline during the drier 2000 to 2005 period. During periods when pumping is reduced at Well 7, the static water levels show a relatively rapid recovery to prepumping levels (for example 1996 or early 2005). This

rapid recovery to non-pumping levels and divergent water level trends in nearby Wells 3 and 6 suggest that the water level declines at Well 7 are localized. During the most recent period from 2005 to present, the water levels appear to be stable in Wells 3, 6, and 7.

Island Center Test Well, Bill Point Well 3, and Island Utilities Monitoring Well all show similar water level trends from 2000 to 2005, with water declines of about 1 to 3 feet, and then stabilized to slightly recovering water levels since 2005.

Concern for seawater intrusion was previously noted in the north island areas of Seabold, Agate Point, and Port Madison and in the Eagle Harbor area (Aspect, 2006b). Samples at one well in the Seabold area in 2000 and 2006 had very high chloride levels (400 and 1,000 mg/L) in excess of the SMCL (250 mg/L). We understand that this well has been replaced and the old well is used only for backup purposes. Additional investigation is necessary to determine the extent of elevated chloride levels in the Seabold area.

Chloride readings for most SLA wells in the network were typically very low, less than 10 mg/L. An apparent upward trend in chloride was noted in the North Bainbridge Well 7, but the maximum chloride level of 11 mg/L is well below levels of concern. No data was available for North Bainbridge Wells 3 and 6 past 2003 and no trends were noted in the available, sporadic chloride measurements.

Chloride data available for the Head of the Bay Wells 1A and 2 were low (less than 5 mg/L) and showed no apparent trend. However, Head of the Bay Wells 4 and 6 have the deepest pumping levels of the Head of the Bay wells (about -90 and -100 feet below sea level). Well 4 is also the well closest to Eagle Harbor. Monitoring of chloride in both Wells 4 and 6 is recommended, as these wells would likely provide the earliest warning of any seawater intrusion.

5.4 Glaciomarine Aquifer

Limited data is available for the seven wells in the Glaciomarine Aquifer (Figure 5). The Battle Point Park Well has the longest water level history and shows a decline of about 2.5 feet since 2002 that generally follows the CRD curve. No conclusions on water level trends can be drawn from the relatively short water level history of the other GMA wells. Available chloride concentrations are low in all the GMA monitoring wells.

5.5 Fletcher Bay Aquifer

Well hydrographs for Fletcher Bay Aquifer wells are presented in Figure 6. For ease of reading, the FBA wells were also grouped into two sets, central wells (Figure 7) and peripheral wells (Figure 8), by similarity of hydrograph patterns. The patterns indicate that the Sands Road 1, Sands Road 2, and Meigs Farm wells are in hydraulic communication and possibly the North Bainbridge Wells 9 and 10. The Meigs Farm Well experienced a substantial and unrecovered drop in water level of about 10 feet when the Sands Road wells came on line in August 1994. About 5 feet of this decline occurred from August through September 1994, following the onset of production in Sands Road Well 2, but prior to the start up of North Bainbridge Well 9 in November 1994. Declines continued in the Meigs Farm Well following startup of North Bainbridge Well 9, but the extent to which these affected Meigs Farm Road, if at all, is unknown. The 1994 decline

observed in the FBA central wells is not seen in data for the Bloedel Reserve Deep, Fletcher Bay PW, Fletcher Bay Observation, or Island Utilities 1 wells.

A recharge response to long-term precipitation trends, specifically the wet period from 1995 to 2000, is indicated by water levels increases of about 15 feet in the Fletcher Bay Observation Well, 3 feet in the Bloedel Deep Well, and 5 feet in the Meigs Farm Well. Water levels in the Island Utilities Well 1 show less than a ½ foot of increase during this same period. No data is available for the Sands Road wells during this period, but a significant drop in water levels is indicated by data collected in 1994 and 2001. Water levels in North Bainbridge Well 9 declined on the order of 5 to 10 feet during this period. The declining water levels in the Sands Road 1 and 2 and North Bainbridge Well 9 suggest that production may have exceeded recharge during this period of above average precipitation at these wells. Production data from Island Utilities wells would be necessary to interpret the slight water level rise at Island Utilities Well 1.

From 2000 to 2005, the CRD trend shows a slight decline and water levels in the Sands Road 1, Sands Road 2, Bloedel Deep, Fletcher Bay Observation Well, and Island Utilities Well 1 all show a decline, consistent with this trend. Water levels in North Bainbridge Well 9 appear stable during this period.

A return to above average rainfall is indicated in the CRD trend from 2005 to 2008. The Bloedel Deep Well shows a slight water level decline during this period suggesting a slight region wide lowering of the aquifer level. Water levels in Sands Road 1, Sands Road 2, North Bainbridge Well 9, and Fletcher Bay Observation Well appear stable during this period, while water levels continue to decline in Island Utilities Well 1.

Water level data from Island Utilities Well 1 indicates a long-term decline of over ½ foot per year from 1988 to 2008. The rate of decline exceeds the provisional EWL criteria of ½ foot per year for 10 years. As discussed in Section 4.3.2, follow-up Management Responses are recommended.

Most water levels in wells in the FBA (Figures 6, 7, and 8) show seasonal responses to precipitation. Water level changes in response to seasonal recharge appear to be greater for the FBA wells than wells completed in shallower aquifers. This response is considerably greater than was observed for the SLA and shallower aquifers and is indicative of lower storativity in this deep aquifer.

The Fletcher Bay aquifer could be recharged through piston flow, via preferential pathways, or a combination of these mechanisms. Under the piston flow model for groundwater recharge, older water is displaced downward into the aquifer by more recently recharged water. The alternative recharge mechanism would be recharge through relatively more permeable preferential pathways within the aquitards. In either case, age dating and isotope studies of FBA groundwater could be used to evaluate the relative importance of these recharge mechanisms.

Chloride concentrations for FBA wells were in the range of 3 to 17 mg/L. For the available data presented in Figure 11, the Sands Road Well 1 and North Bainbridge Well 9 exhibit the highest chloride in the FBA ranging from 8 to 17 mg/L. The Fletcher Bay Production Well has the lowest chlorides in the FBA, typically exhibiting values less than 5 mg/L.

5.6 Bedrock Aquifer

Only limited data from well is available for the bedrock aquifer. The hydrograph for this well is presented in Figure 10.

6 Recommendations

An updated review of water level trends and chloride data has been performed in this study. At this time, the following items are recommended for immediate implementation:

1. Implement Management Responses for safe yield in the Fletcher Bay Aquifer near Eagledale. As an initial step, this should include obtaining and evaluating production and chloride data for the Island Utilities Wells;
2. Closely monitor production and water levels for several Fletcher Bay Aquifer wells (North Bainbridge Well 7, Sands Road 1, Sands Road 2, North Bainbridge Wells 9 and 10) and for one Sea Level Aquifer well (North Bainbridge 7), particularly during changes in production;
3. Survey chloride levels in wells completed within ¼ mile of the shoreline to investigate the areal extent of elevated chlorides. This survey should include investigation of elevated chloride concentrations in the Seabold area and confirmation of historic, single-time elevated chloride measurements;
4. Evaluate chloride levels by aquifer. Determine correlation curves between chloride concentration and specific conductance by aquifer. Identify data gaps and test additional wells as necessary;
5. Identify any significant tidal influence on water levels in near-shore wells. Where necessary, characterize the tidal effect and adjust water level data accordingly;
6. Monitor chloride levels in the deeper Head of the Bay Wells 4 and 6 whose location and depth, respectively, will provide early warning of seawater intrusion; and
7. Acquire production data for additional private well systems to build as complete a record as possible of total groundwater withdrawals.

References

Aspect Consulting, LLC, 2006a, Baseline Groundwater Technical Information Summary, Memorandum from Erick W. Miller to Jalyn Cummings, October 30, 2006. Bainbridge Island, Washington. Unpublished Work.

Aspect Consulting, LLC, 2006b, Groundwater Monitoring Program, City of Bainbridge Island, Bainbridge Island, Washington, December 12, 2006. Bainbridge Island,

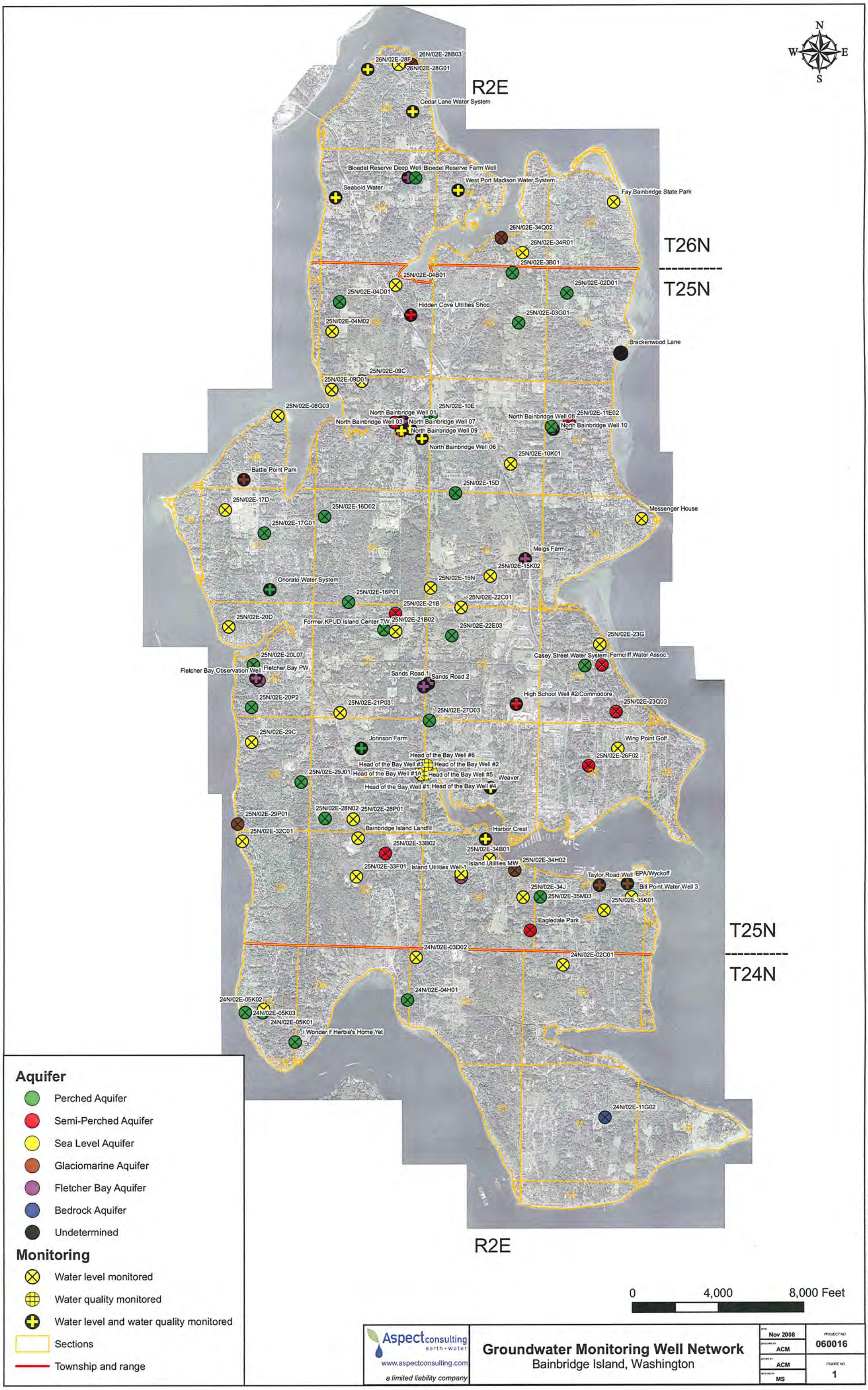
Kato & Warren, Inc., and Robinson & Noble Inc., 2000, City of Bainbridge Island Level II Assessment, an element of water resources study. Unpublished Work.

Serfes, M.E., 1991, Determining the Mean Hydraulic Gradient of Ground Water Affected by Tidal Fluctuations, Ground Water 29 (4), pp. 549-555.

Washington Department of Ecology, 1990, Draft Seawater Intrusion Policy dated November 30, 1990.

Limitations

Work for this project was performed and this report prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. It is intended for the exclusive use of City of Bainbridge Island for specific application to the referenced property. This report does not represent a legal opinion. No other warranty, expressed or implied, is made.


N
W
E
S
R2E
T26N
T25N
T25N
T24N
R2E
26N/02E-28B03
26N/02E-28F
26N/02E-28G01
Cedar Lane Water System
Bloedel Reserve Deep Well
Bloedel Reserve Farm Well
West Port Madison Water System
Seabold Water
Fay Bainbridge State Park
26N/02E-34Q02
26N/02E-34R01
25N/02E-3B01
25N/02E-04B01
25N/02E-02D01
25N/02E-04D01
Hidden Cove Utilities Shop
25N/02E-03G01
25N/02E-04M02
Brackenwood Lane
25N/02E-09C
25N/02E-09D01
25N/02E-08G03
25N/02E-10E
North Bainbridge Well 01
North Bainbridge Well 03
North Bainbridge Well 07
North Bainbridge Well 09
North Bainbridge Well 06
North Bainbridge Well 08
25N/02E-11E02
North Bainbridge Well 10
25N/02E-10K01
Battle Point Park
25N/02E-15D
25N/02E-17D
25N/02E-16D02
Messenger House
25N/02E-17G01
Meigs Farm
25N/02E-15K02
Onorato Water System
25N/02E-15N
25N/02E-16P01
25N/02E-22C01
25N/02E-21B
25N/02E-20D
Former KPUD Island Center TW
25N/02E-21B02
25N/02E-22E03
25N/02E-23G
25N/02E-20L07
Casey Street Water System
Fernicliff Water Assoc.
Fletcher Bay Observation Well
Fletcher Bay PW
Sands Road 1
Sands Road 2
High School Well #2/Commodore
25N/02E-20P2
25N/02E-21P03
25N/02E-27D03
25N/02E-23Q03
25N/02E-29C
Johnson Farm
Wing Point Golf
Head of the Bay Well #6
25N/02E-26F02
Head of the Bay Well #3
Head of the Bay Well #2
25N/02E-29J01
Head of the Bay Well #1A
Head of the Bay Well #5
Weaver
Head of the Bay Well #1
Head of the Bay Well #4
25N/02E-29P01
25N/02E-28N02
25N/02E-28P01
25N/02E-32C01
Bainbridge Island Landfill
Harbor Crest
25N/02E-33B02
25N/02E-34B01
25N/02E-34H02
25N/02E-33F01
Island Utilities Well-1
Island Utilities MW
Taylor Road Well
EPA/Wyckoff
Bill Point Water Well 3
25N/02E-34J
25N/02E-35M03
25N/02E-35K01
Eagledale Park
24N/02E-03D02
24N/02E-02C01
24N/02E-04H01
24N/02E-05K02
24N/02E-05K03
24N/02E-05K01
I Wonder if Herbie's Home Yet
24N/02E-11G02
Aquifer
Perched Aquifer
Semi-Perched Aquifer
Sea Level Aquifer
Glaciomarine Aquifer
Fletcher Bay Aquifer
Bedrock Aquifer
Undetermined
Monitoring
Water level monitored
Water quality monitored
Water level and water quality monitored
Sections
Township and range
0
4,000
8,000 Feet
Aspect consulting
earth + water
www.aspectconsulting.com
a limited liability company
Groundwater Monitoring Well Network
Bainbridge Island, Washington
Nov 2008
ACM
ACM
MS
PROJECT NO.
060016
FIGURE NO.
1
T:\projects_8\cob\groundwater_monitoringwells_2008-11-14.mxd

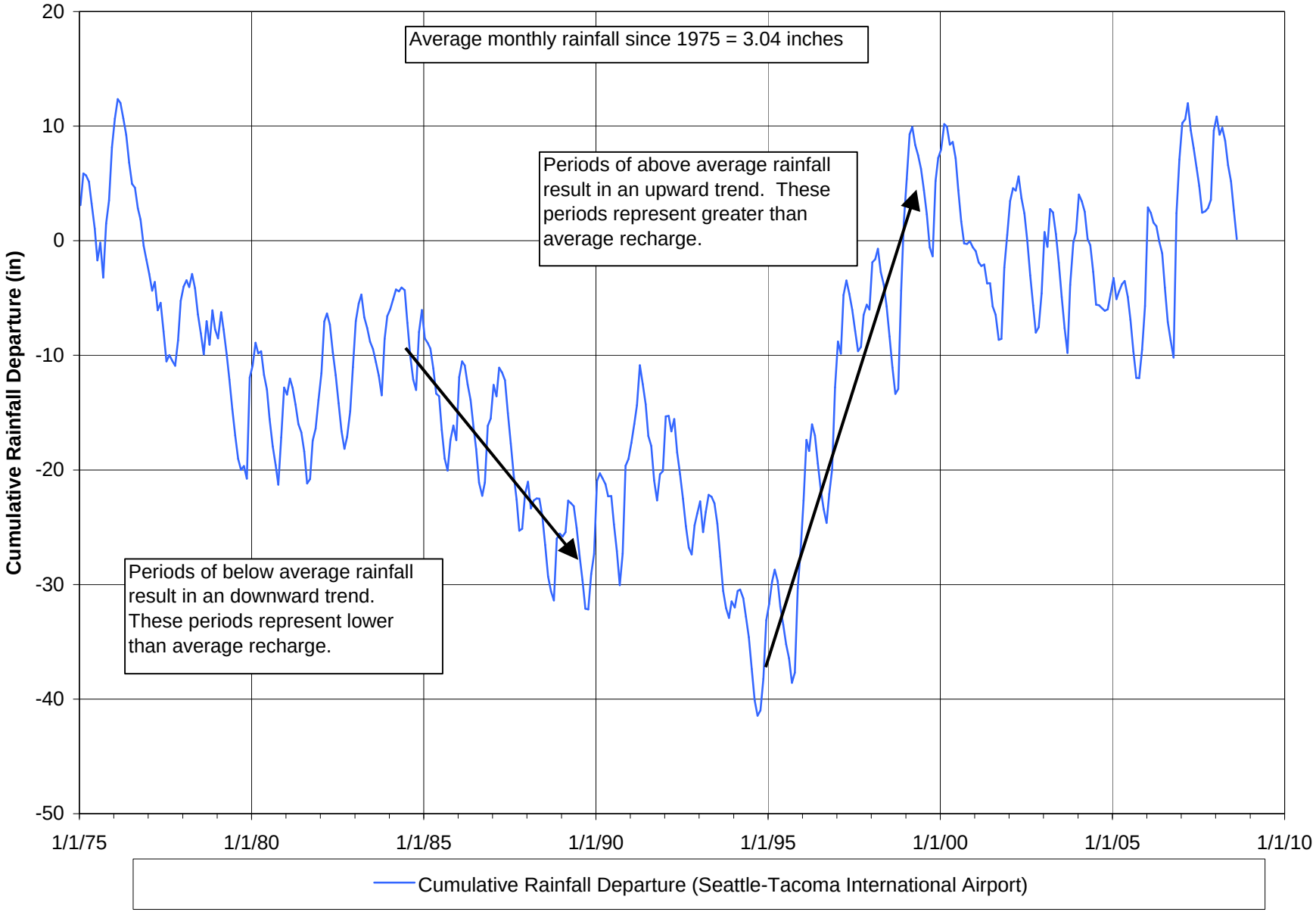


Figure 2

Cumulative Rainfall Departure

Groundwater Monitoring Program, Bainbridge Island, WA

Aspect Consulting

11/21/2008

P:\Bainbridge, City of\Groundwater Management\Database\Well Graphs2-Presentation Version.xls - Cumulative Departure Shown

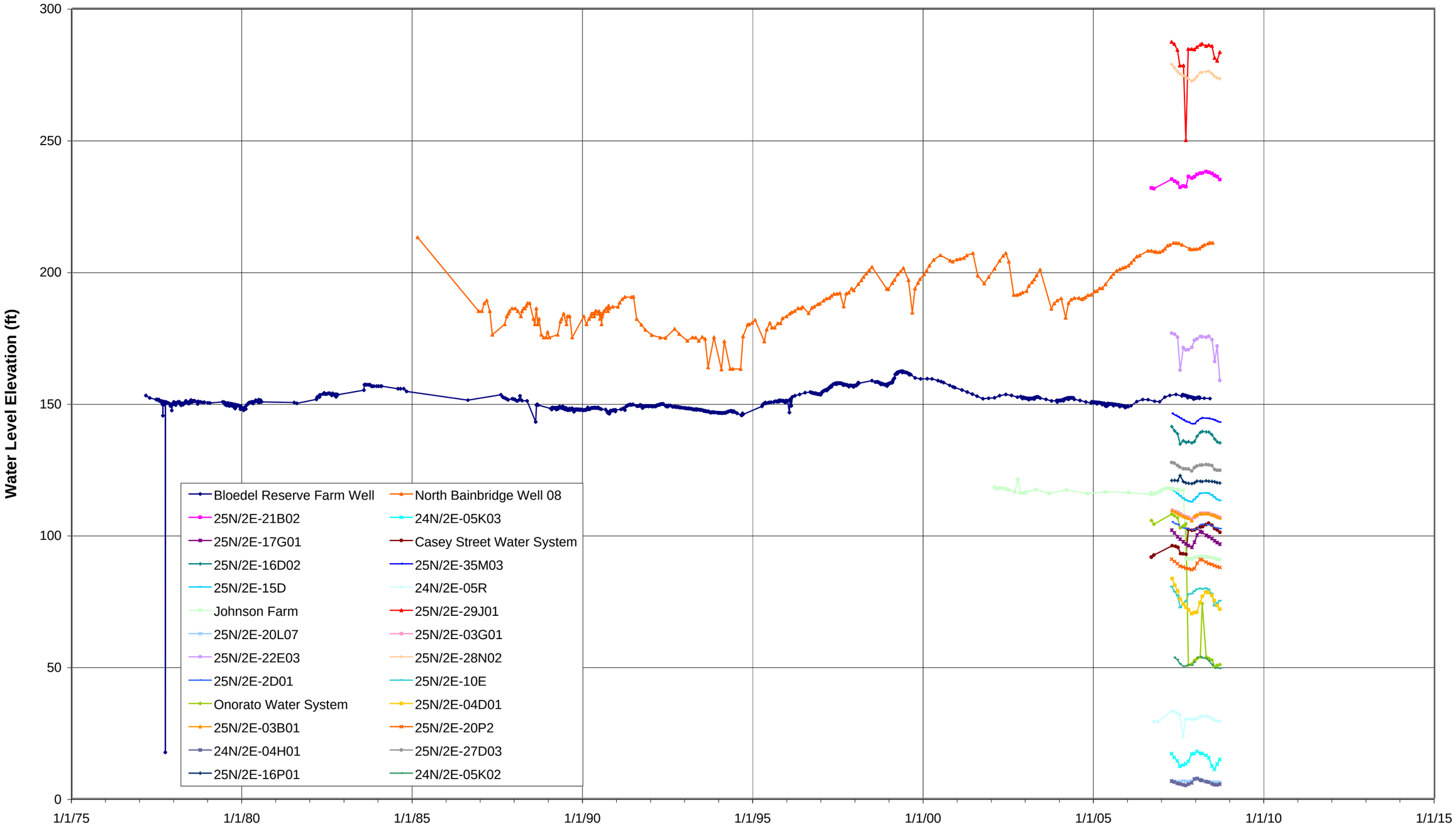


Figure 3

Perched Aquifer Hydrographs

Groundwater Monitoring Program, Bainbridge Island, WA

Aspect Consulting

11/21/2008

W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Aquifer - PA

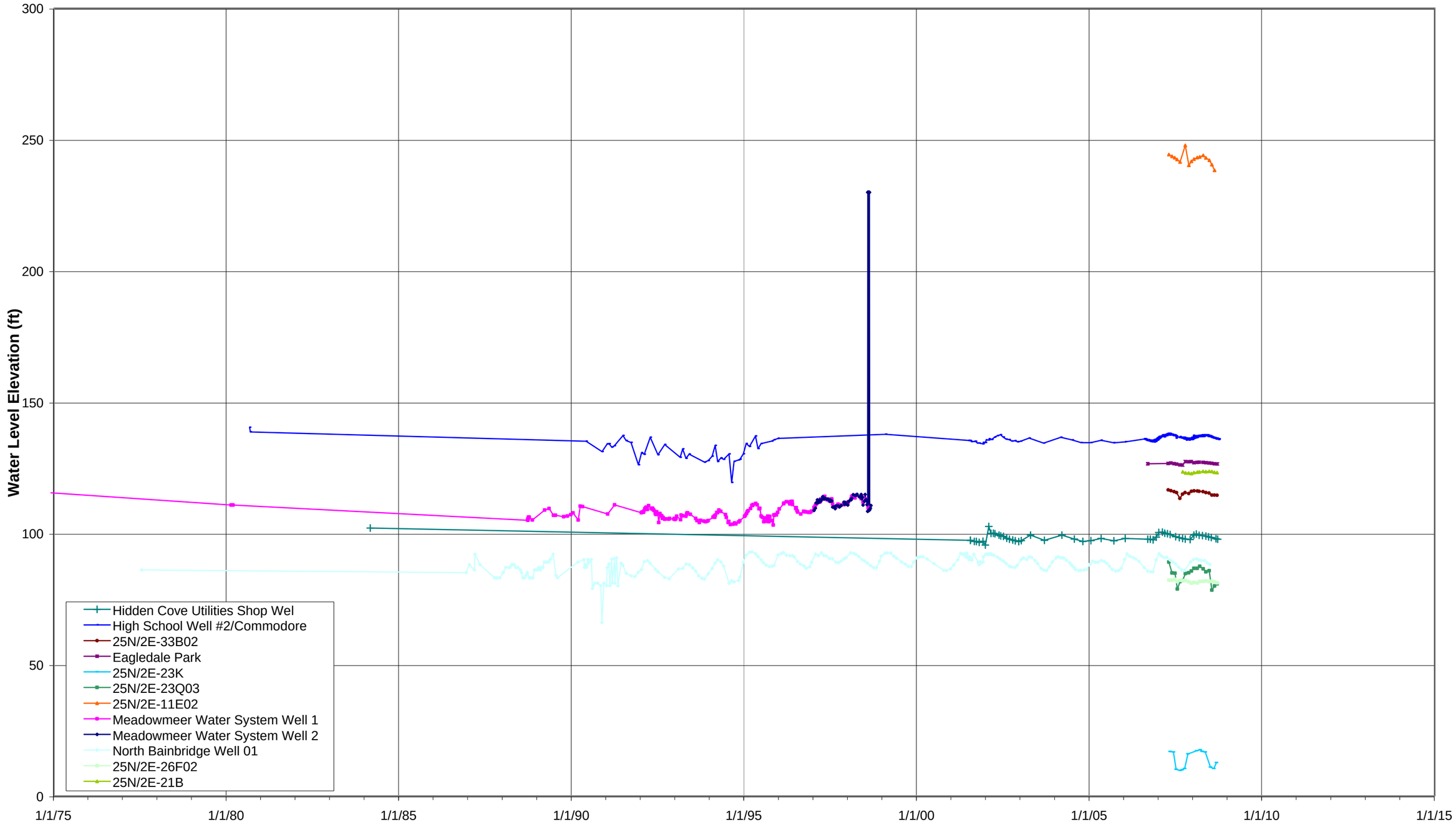


Figure 4

Semi-Perched Aquifer Hydrographs

Groundwater Monitoring Program, Bainbridge Island, WA

Aspect Consulting

11/21/2008

W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Aquifer - SPA

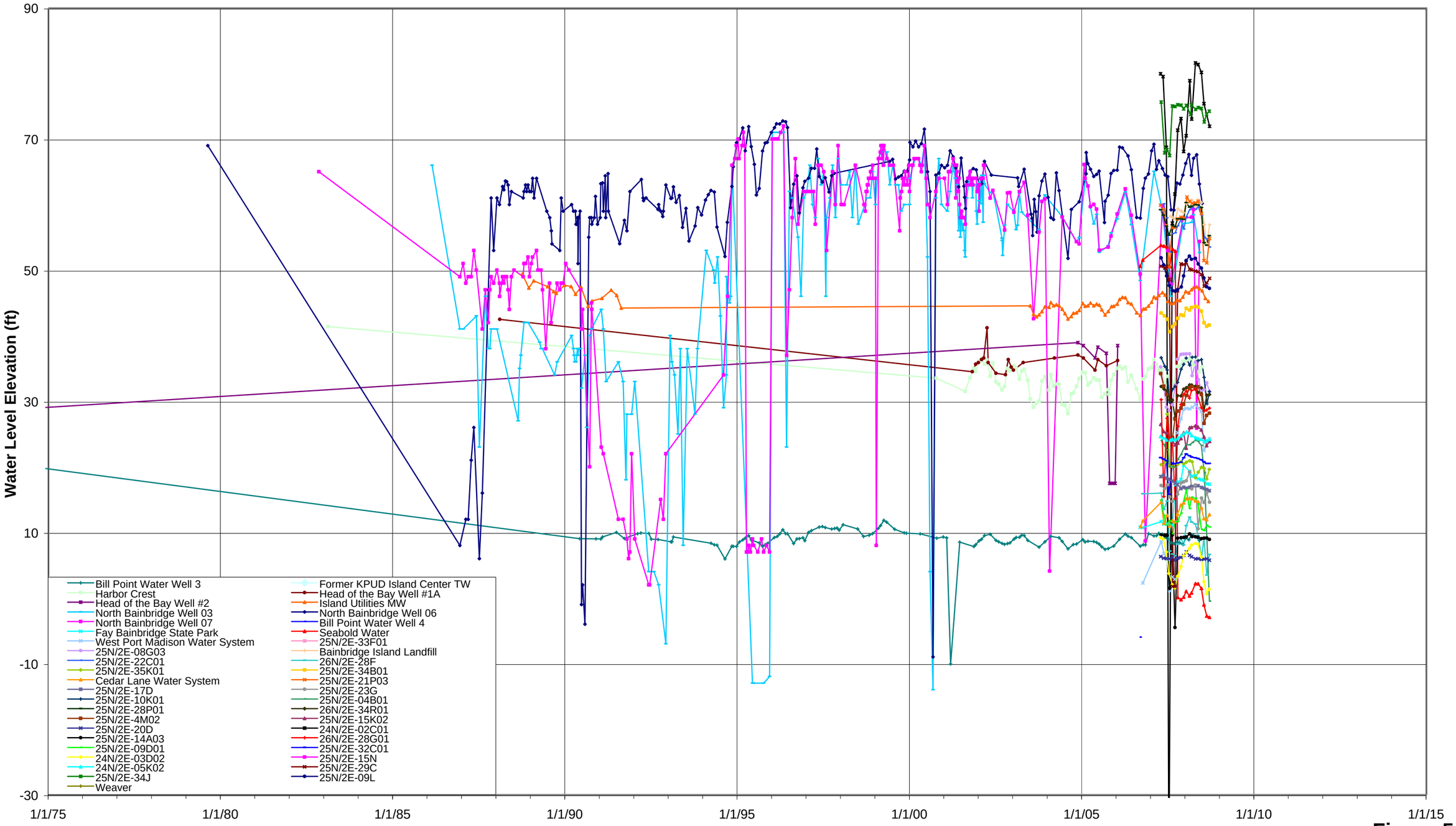


Figure 5

Sea Level Aquifer Hydrographs

Groundwater Monitoring Program, Bainbridge Island, WA

Aspect Consulting

11/21/2008

W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Aquifer - SLA

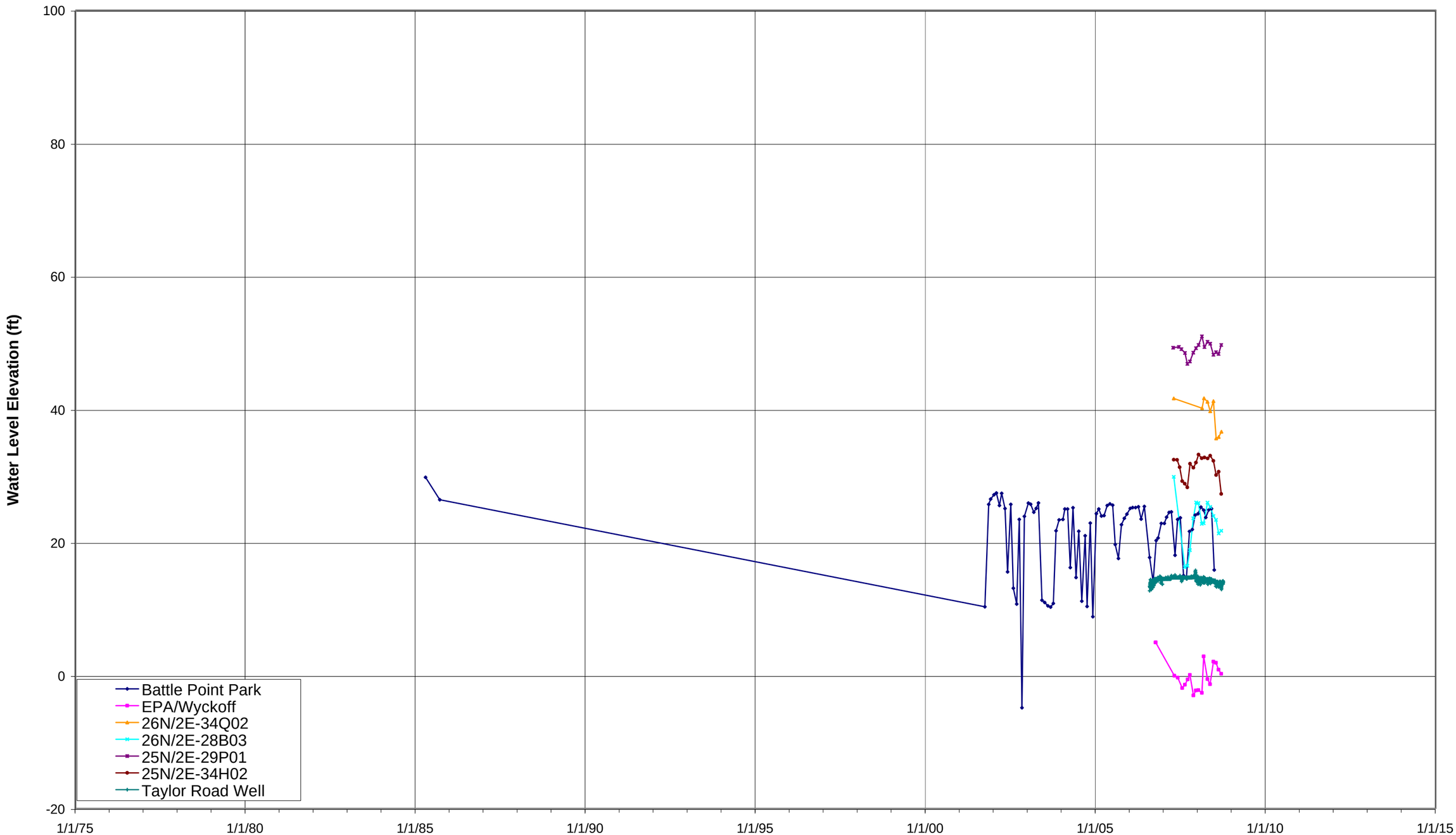


Figure 6

Glaciomarine Aquifer Hydrographs

Groundwater Monitoring Program, Bainbridge Island, WA

Aspect Consulting

11/21/2008

W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Aquifer - GMA

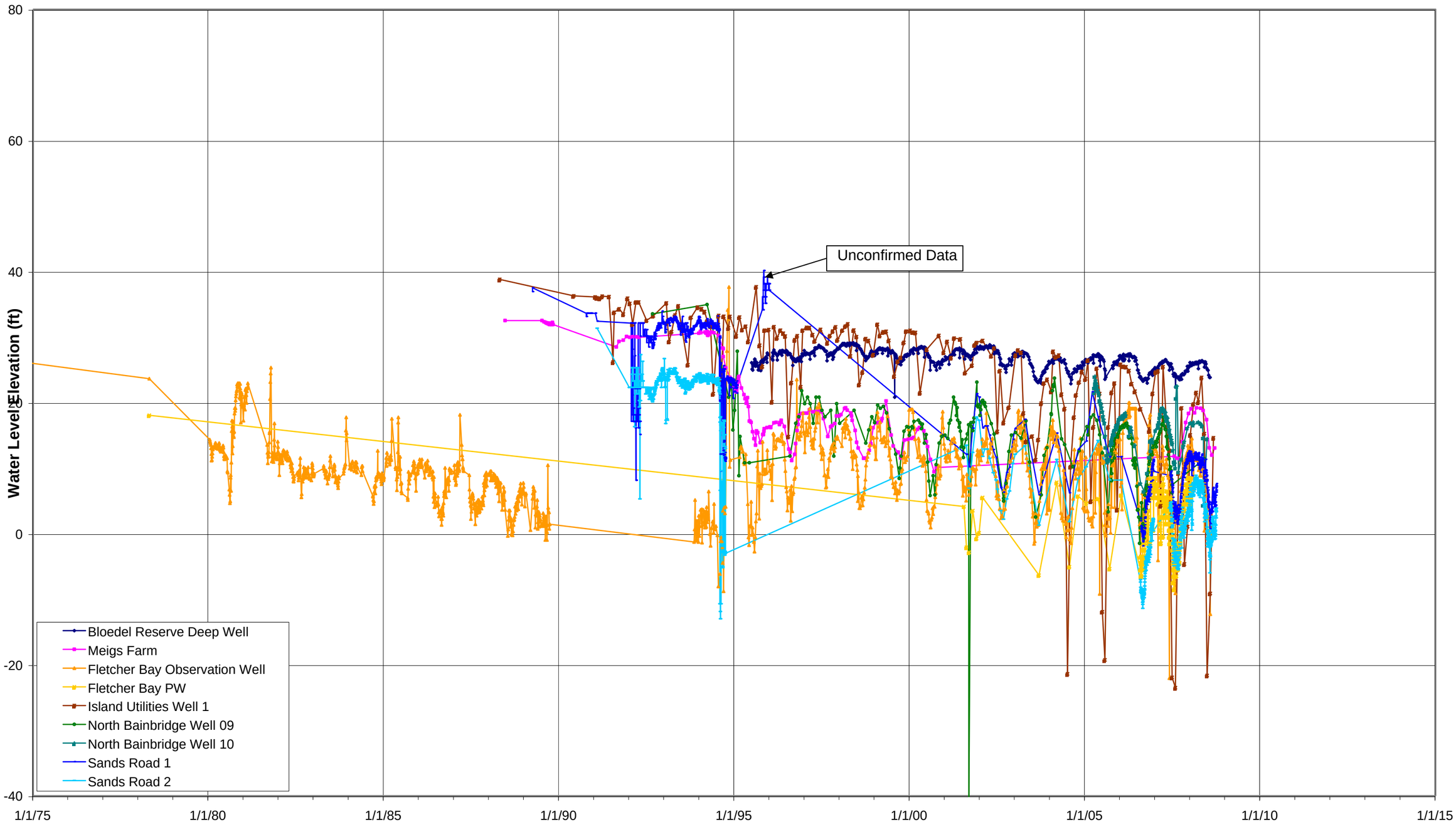


Figure 7

Fletcher Bay Aquifer Hydrographs - All Wells

Groundwater Monitoring Program, Bainbridge Island, WA

Aspect Consulting

11/21/2008

W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Aquifer - FBA

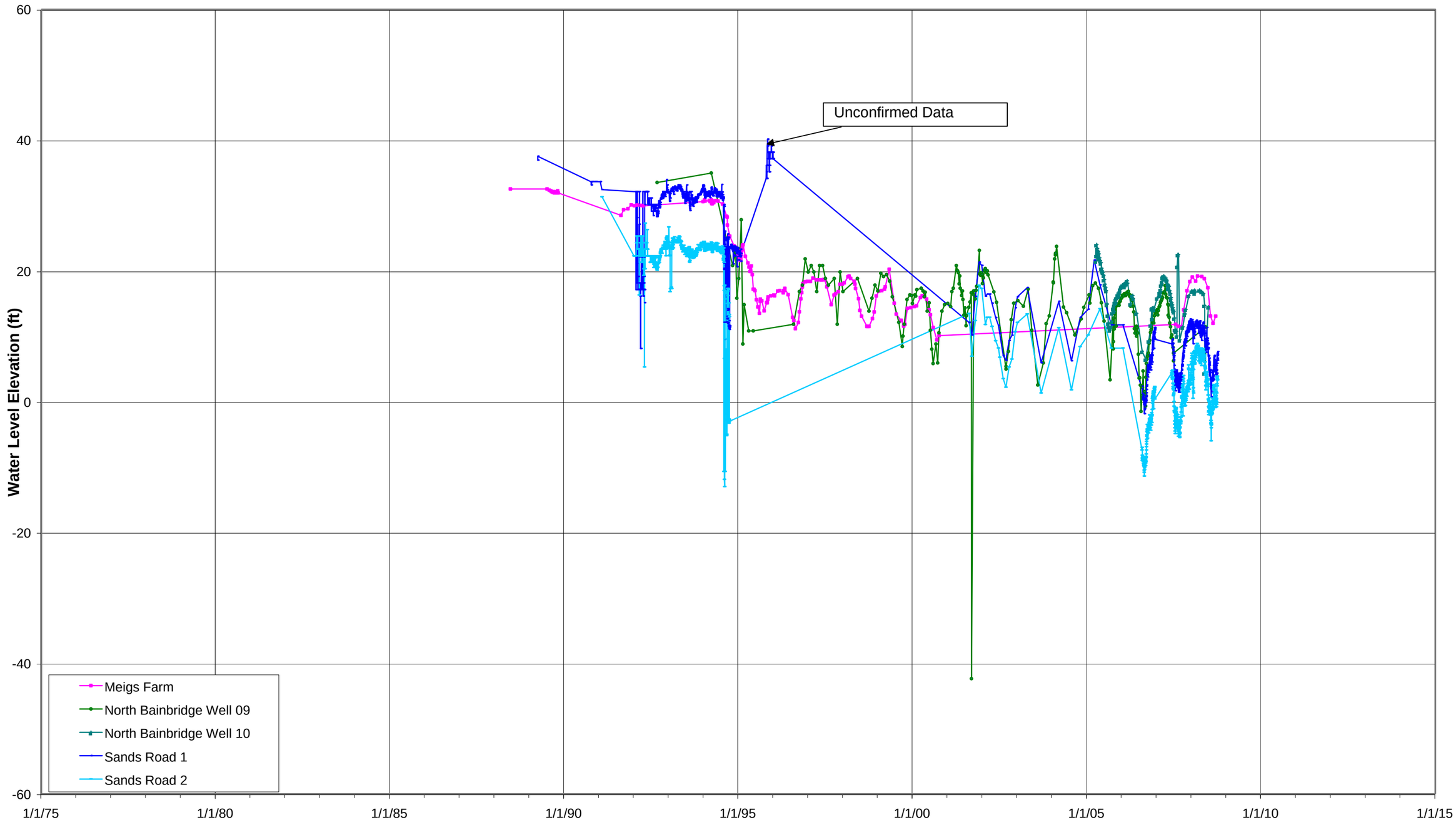


Figure 8

Fletcher Bay Aquifer Hydrographs - Central Wells

Groundwater Monitoring Program, Bainbridge Island, WA

Aspect Consulting

11/21/2008

W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Aquifer - FBA Central

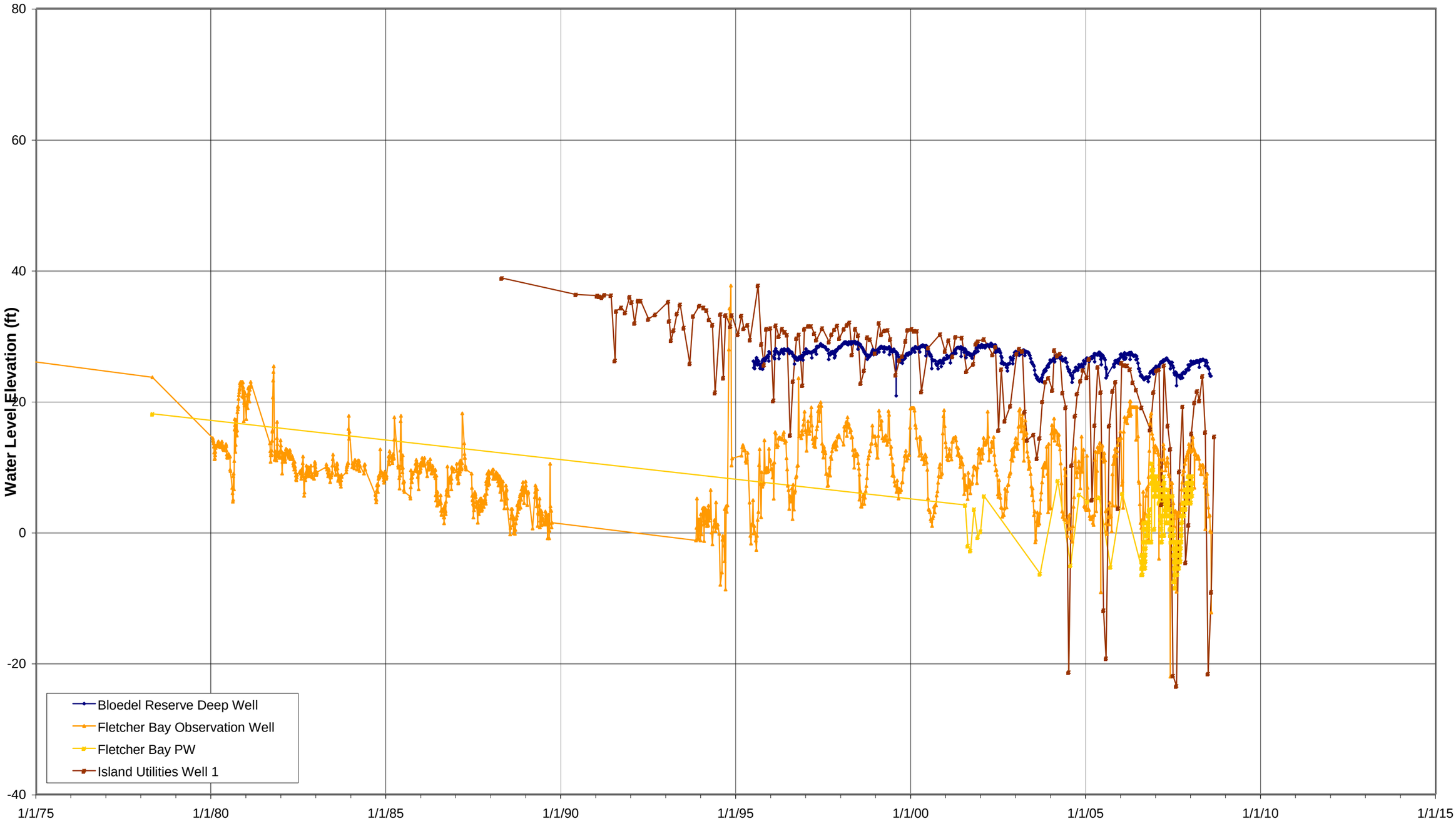
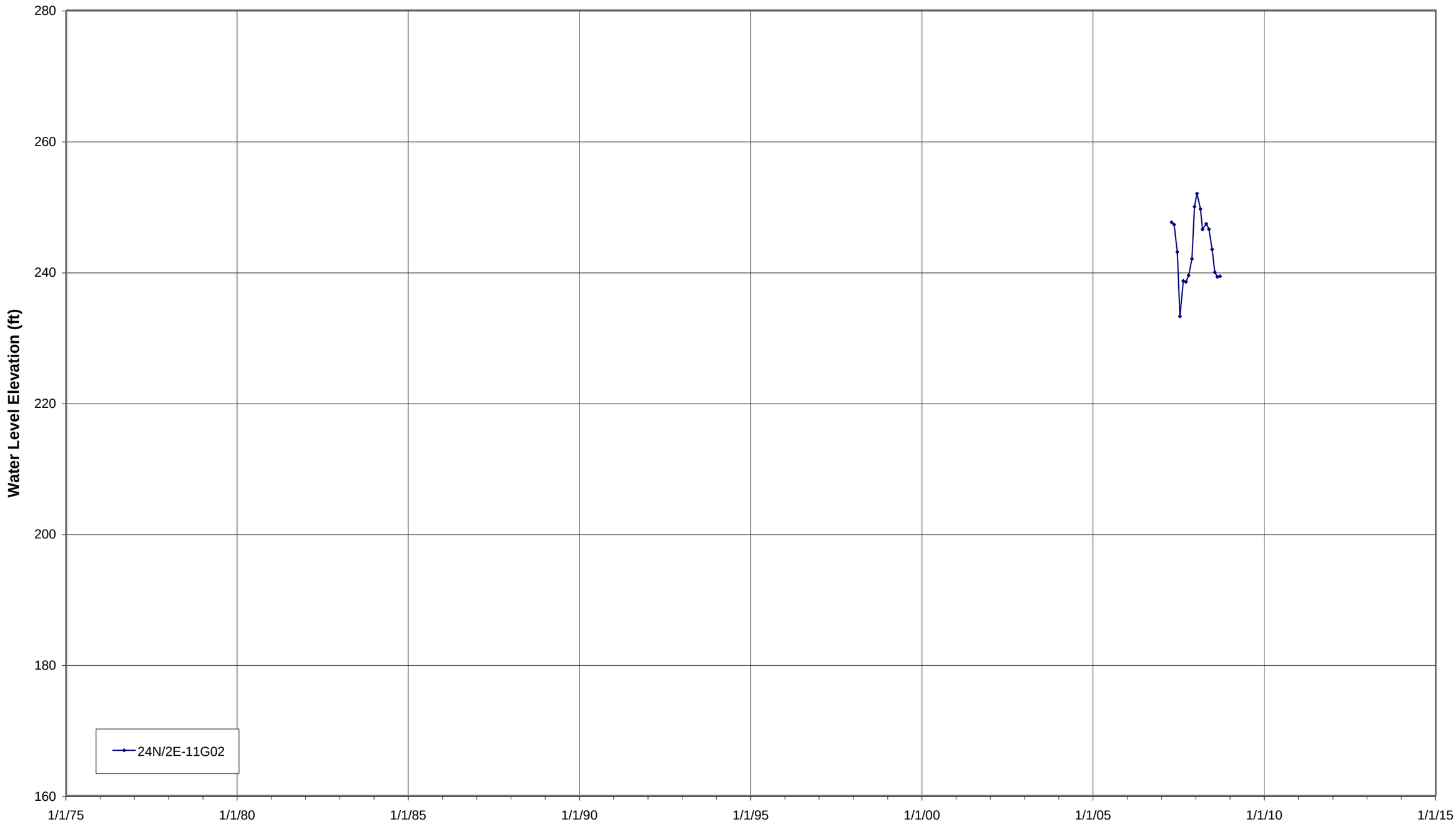


Figure 9

Fletcher Bay Aquifer Hydrographs - Peripheral Wells

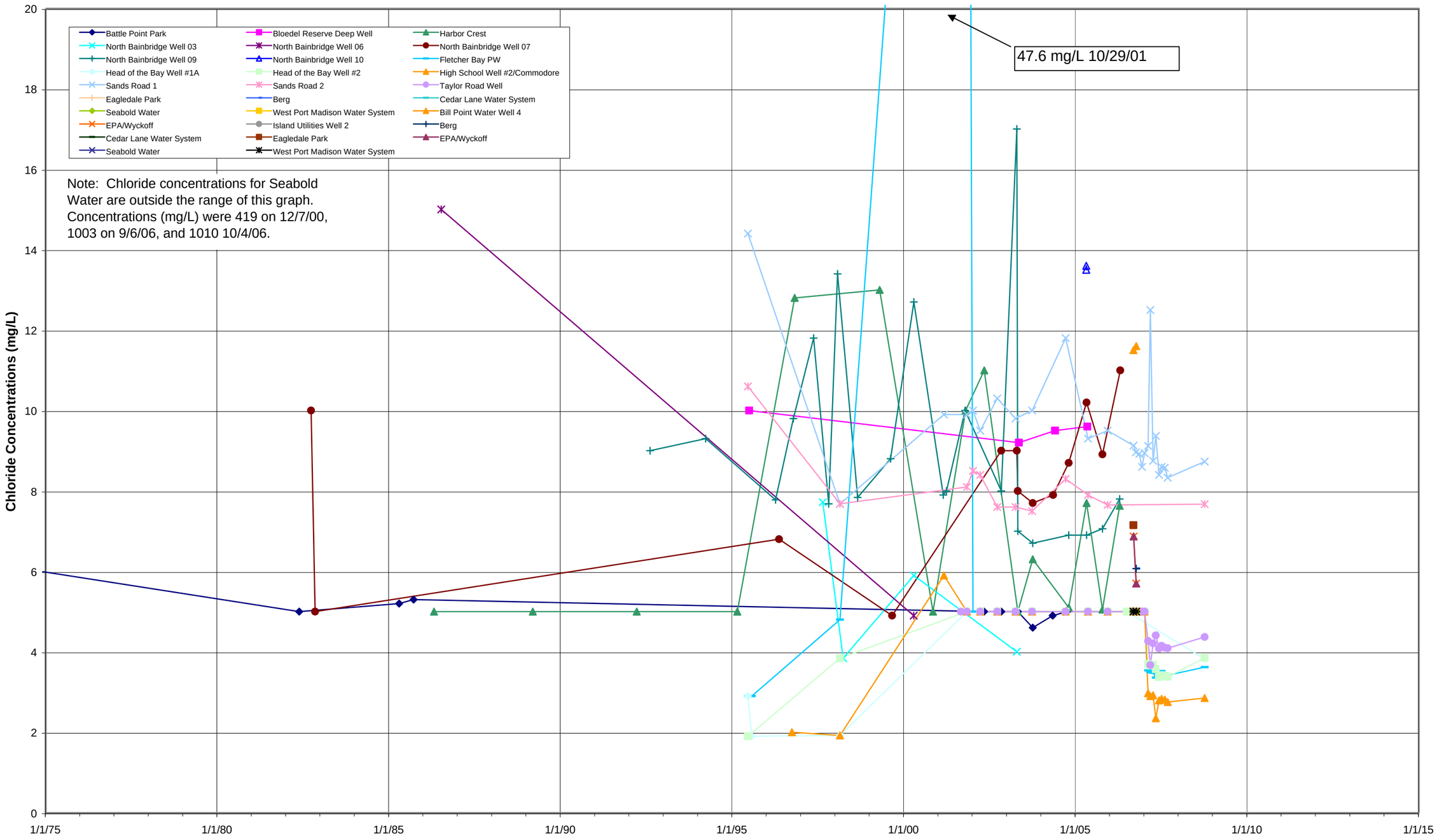
Groundwater Monitoring Program, Bainbridge Island, WA

Aspect Consulting
11/21/2008
W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Aquifer - FBA Peripheral



Aspect Consulting
11/21/2008
W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Aquifer - BED

Figure 10
Bedrock Aquifer Hydrographs
Groundwater Monitoring Program, Bainbridge Island, WA



Aspect Consulting

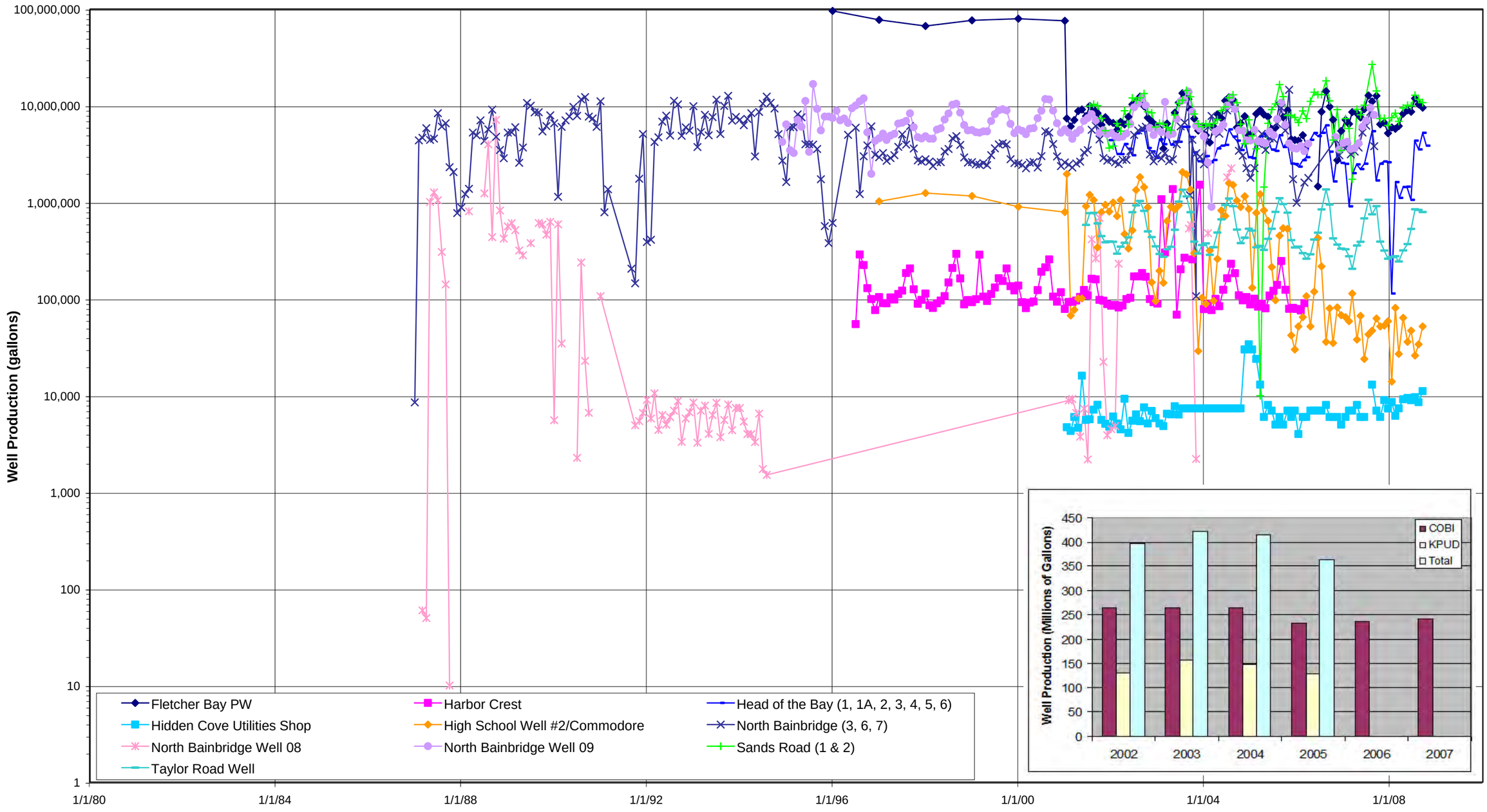
11/21/2008

W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Update Graphs Final.xls - Chloride Chart

Figure 11

Historic Chloride Concentrations in Groundwater

Groundwater Monitoring Program, Bainbridge Island, WA



Aspect Consulting
11/18/2008
W:\060016 Bainbridge Island - GW Mgt\GMP\GMP 2008\DRAFT\2008 GW Graphs - Private Wells.xls - Prod Chart Final

Figure 12
Historic Groundwater Withdrawals
Groundwater Monitoring Program, Bainbridge Island, WA

APPENDIX A

Monitoring Well List and Well Logs

Table A-1
Monitoring Well List
Groundwater Monitoring Program, Bainbridge Island, WA

Well ID	Local Number	DOE Tag	Latitude	Longitude	Surface Elevation (NAVD 88)	Aquifer	Monitoring Frequency	Monitoring			Open Interval	
								Water Level	Chloride	Specific Conductance	Top Elevation (NAVD 88)	Bottom Elevation (NAVD 88)
Bloedel Reserve Farm Well	26N/02E-33B01	AAC759	47.70472221	-122.5463889	165	PA	10 days	KPUD/COBI				123
Casey Street Water System	25N/02E-23E03	AAC654	47.64309399	-122.5124764	167	PA	28 days	COBI-Eng			74	64
I Wonder if Herbie's Home Yet	24N/02E-05R	AAC032	47.59456711	-122.56554	132	PA	28 days	COBI-Eng			4	-1
Johnson Farm	25N/02E-28F		47.63204475	-122.5542631	154	PA	0.9 hours	COBI-O&M	COBI-O&M	COBI-O&M	38	28
North Bainbridge Well 08	25N/02E-11E01	AAC832	47.67342224	-122.5197528	351	PA	25 days	KPUD			171	151
Onorato Water System	25N/02E-17Q01	AAC862	47.65197124	-122.5721743	86	PA	28 days	COBI-Eng	COBI-Eng	COBI-Eng	23	17
Private Well	24N/02E-04H01		47.60020369	-122.5445919	68	PA	28 days	COBI-Eng				
Private Well	24N/02E-05K01		47.59817457	-122.5717526	101	PA	28 days	COBI-Eng				
Private Well	24N/02E-05K03		47.59818821	-122.5750481	23	PA	28 days	COBI-Eng				
Private Well	25N/02E-02D01		47.69039568	-122.5173031	132	PA	28 days	COBI-Eng				
Private Well	25N/02E-03B01		47.69286923	-122.5276851	135	PA	28 days	COBI-Eng				
Private Well	25N/02E-03G01		47.68652551	-122.5263025	231	PA	28 days	COBI-Eng				
Private Well	25N/02E-04D01		47.6887153	-122.56013	124	PA	28 days	COBI-Eng				
Private Well	25N/02E-10E		47.67441472	-122.5425047	94	PA	28 days	COBI-Eng				
Private Well	25N/02E-15D		47.66471209	-122.5375908	236	PA	28 days	COBI-Eng				
Private Well	25N/02E-16D02		47.66140082	-122.5621929	176	PA	1 hours	COBI-Eng				
Private Well	25N/02E-16P01		47.65058581	-122.5573188	175	PA	28 days	COBI-Eng				
Private Well	25N/02E-17G01		47.65915437	-122.5734727	155	PA	28 days	COBI-Eng				
Private Well	25N/02E-20L07		47.64230599	-122.5749341	61	PA	28 days	COBI-Eng				
Private Well	25N/02E-20P2		47.63693748	-122.5750999	213	PA	28 days	COBI-Eng				
Private Well	25N/02E-21B02	AAA579	47.64717789	-122.5505234	305	PA	28 days	COBI-Eng			204	200
Private Well	25N/02E-22E03		47.64656551	-122.5376952	249	PA	28 days	COBI-Eng				
Private Well	25N/02E-27D03		47.63575588	-122.5415637	137	PA	28 days	COBI-Eng				
Private Well	25N/02E-28N02		47.62302739	-122.560826	315	PA	28 days	COBI-Eng				
Private Well	25N/02E-29J01		47.62760708	-122.5654556	354	PA	28 days	COBI-Eng				
Private Well	25N/02E-35M03		47.6136761	-122.5199782	172	PA	28 days	COBI-Eng				
Eagledale Park	25N/02E-34R05	AAC077	47.60938539	-122.521706	293	SPA	28 days	COBI-Eng			113	108
Ferncliff Water Assoc.	25N/02E-23K		47.6429523	-122.5092888	140	SPA	37 days	COBI-Eng				
Hidden Cove Utilities Shop	25N/02E-04G03	ACR406	47.68722324	-122.5466662	130	SPA	31 days	COBI-O&M	COBI-O&M	COBI-O&M	79	75
High School Well #2/Commodore	25N/02E-22R02	AAA239	47.63805555	-122.5252778	266	SPA	12 hours	COBI-O&M	COBI-O&M	COBI-O&M	75	16
North Bainbridge Well 01	25N/02E-09G06	AAC826	47.67305558	-122.5483334	125	SPA	30 days	KPUD				
Private Well	25N/02E-11E02		47.67391827	-122.5163865	281	SPA	28 days	COBI-Eng				
Private Well	25N/02E-21B		47.64926261	-122.5483955	314	SPA	28 days	COBI-Eng				
Private Well	25N/02E-23Q03		47.63733677	-122.5064348	154	SPA	28 days	COBI-Eng				
Private Well	25N/02E-26F02		47.63041267	-122.5113657	188	SPA	28 days	COBI-Eng				
Private Well	25N/02E-33B02		47.61873637	-122.5493531	167	SPA	28 days	COBI-Eng				
Bainbridge Island Landfill	25N/02E-33C		47.62062394	-122.5545541	269	SLA	1 hours	COBI-Eng				
Bill Point Water Well 3	25N/02E-35J03	AAA238	47.61388736	-122.5027778	139	SLA	27 days	KPUD			-11	-21
Bill Point Water Well 4	25N/02E-35J04				124	SLA			COBI-Eng	COBI-Eng	-28	-37
Cedar Lane Water System	26N/02E-28J02	AAC659	47.71305914	-122.5472296	147	SLA	28 days	COBI-Eng	COBI-Eng	COBI-Eng	-22	-28
Fay Bainbridge State Park	26N/02E-35G02		47.70214108	-122.5089352	86	SLA	1 hours	COBI-Eng				-6
Former KPUD Island Center TW	25N/02E-21G03	AAA110	47.64694444	-122.5483334	300	SLA	27 days	KPUD			-83	-98
Harbor Crest	25N/02E-34C03	ACD357	47.62083333	-122.5305556	72	SLA	27 days	KPUD	KPUD	KPUD	-66	-77
Head of the Bay Well #1	25N/02E-27E21		47.62912223	-122.5420349	34	SLA	34 days	COBI-O&M				
Head of the Bay Well #1A	25N/02E-27E15	AAC860	47.62931472	-122.5419462	32	SLA			COBI-O&M	COBI-O&M		
Head of the Bay Well #2	25N/02E-27E16	AAC870	47.62910175	-122.5418904	30	SLA			COBI-O&M	COBI-O&M		
Head of the Bay Well #3	25N/02E-27E17	AAC871	47.63032187	-122.5419878	47	SLA			COBI-O&M	COBI-O&M		
Head of the Bay Well #4	25N/02E-27E18	AAC872	47.62898348	-122.5419656	29	SLA			COBI-O&M	COBI-O&M		
Head of the Bay Well #5	25N/02E-27E19	AAC873	47.62953631	-122.5419302	31	SLA			COBI-O&M	COBI-O&M		
Head of the Bay Well #6	25N/02E-27E20	AAC874	47.63007014	-122.5419437	42	SLA			COBI-O&M	COBI-O&M		
Island Utilities MW	25N/02E-34F06	AAA108	47.61638891	-122.535	144	SLA	28 days	KPUD			19	8
Messenger House	25N/02E-14A03		47.66193753	-122.5023765	100	SLA	28 days	COBI-Eng				
North Bainbridge Well 03	25N/02E-09H01	AEK853	47.6727778	-122.5463889	87	SLA	27 days	KPUD	KPUD	KPUD	-10	-18
North Bainbridge Well 06	25N/02E-09K02	AAA113	47.67154446	-122.544175	91	SLA	27 days	KPUD	KPUD	KPUD	-12	-27
North Bainbridge Well 07	25N/02E-09G07	AEK852	47.6725	-122.5480556	125	SLA	30 days	KPUD	KPUD	KPUD	-9	-24

Table A-1
Monitoring Well List
Groundwater Monitoring Program, Bainbridge Island, WA

Well ID	Local Number	DOE Tag	Latitude	Longitude	Surface Elevation (NAVD 88)	Aquifer	Monitoring Frequency	Monitoring			Open Interval	
								Water Level	Chloride	Specific Conductance	Top Elevation (NAVD 88)	Bottom Elevation (NAVD 88)
Seabold Water	26N/02E-33E02	AAA173	47.70201296	-122.5614115	118	SLA	28 days	COBI-Eng	COBI-Eng	COBI-Eng	-45	-57
Weaver	25N/02E-27K03	AAC878	47.62739444	-122.5297611	90	SLA	27 days	COBI-O&M	COBI-O&M	COBI-O&M	-44	-54
West Port Madison Water System	26N/02E-34E04	AAC800	47.70322655	-122.5383413	67	SLA	31 days	COBI-Eng	COBI-Eng	COBI-Eng	-150	-160
Wing Point COBI	25N/02E-26B01		47.62926389	-122.5013139	128	SLA	1 hours	COBI-Eng				
Wing Point Golf	25N/02E-26B02		47.63269325	-122.5059529	127	SLA	28 days	COBI-Eng				
Private Well	24N/02E-02C01		47.60510296	-122.5154261	153	SLA	31 days	COBI-Eng				
Private Well	24N/02E-03D02		47.60568832	-122.5431455	153	SLA	28 days	COBI-Eng				
Private Well	24N/02E-05K02		47.59864278	-122.571624	112	SLA	1 hours	COBI-Eng				
Private Well	25N/02E-04B01		47.69100359	-122.5496916	83	SLA	31 days	COBI-Eng				
Private Well	25N/02E-04M02		47.68497855	-122.5614349	100	SLA	28 days	COBI-Eng				
Private Well	25N/02E-08G03		47.67407268	-122.571348	76	SLA	28 days	COBI-Eng				
Private Well	25N/02E-09C		47.67871727	-122.5556762	65	SLA	28 days	COBI-Eng				
Private Well	25N/02E-09D01		47.67758914	-122.5612811	29	SLA	26 days	COBI-Eng				
Private Well	25N/02E-10K01		47.66855473	-122.5272946	144	SLA	28 days	COBI-Eng				
Private Well	25N/02E-15K02		47.65425649	-122.5307298	65	SLA	28 days	COBI-Eng				
Private Well	25N/02E-15N		47.65262194	-122.5418978	201	SLA	28 days	COBI-Eng				
Private Well	25N/02E-17D		47.66200859	-122.580939	120	SLA	28 days	COBI-Eng				
Private Well	25N/02E-20D		47.64707906	-122.5797882	114	SLA	28 days	COBI-Eng				
Private Well	25N/02E-21P03		47.63647988	-122.5584006	70	SLA	28 days	COBI-Eng				
Private Well	25N/02E-22C01		47.65021641	-122.5360803	159	SLA	28 days	COBI-Eng				
Private Well	25N/02E-23G		47.64586184	-122.5097687	100	SLA	28 days	COBI-Eng				
Private Well	25N/02E-28P01		47.62301328	-122.5555337	280	SLA	28 days	COBI-Eng				
Private Well	25N/02E-29C		47.63255656	-122.5749229	281	SLA	28 days	COBI-Eng				
Private Well	25N/02E-32C01		47.61992529	-122.576312	63	SLA	28 days	COBI-Eng				
Private Well	25N/02E-33F01		47.61573171	-122.554704	304	SLA	28 days	COBI-Eng				
Private Well	25N/02E-34B01		47.61826003	-122.5296754	80	SLA	28 days	COBI-Eng				
Private Well	25N/02E-34J		47.6135696	-122.5231922	212	SLA	28 days	COBI-Eng				
Private Well	25N/02E-35K01		47.61212176	-122.5079209	189	SLA	28 days	COBI-Eng				
Private Well	26N/02E-28F		47.71836742	-122.5558244	43	SLA	28 days	COBI-Eng	COBI-Eng	COBI-Eng	-181	-197
Private Well	26N/02E-28G01		47.71907139	-122.5499814	122	SLA	28 days	COBI-Eng				
Private Well	26N/02E-34R01		47.69543865	-122.5258996	101	SLA	28 days	COBI-Eng				
Battle Point Park	25N/02E-08P02	AAC558	47.66583333	-122.5775	130	GMA	27 days	KPUD	KPUD	KPUD		-780
EPA/Wyckoff	25N/02E-35H		47.61554032	-122.5036165	15	GMA	28 days	COBI-Eng	COBI-Eng	COBI-Eng	-445	-485
Taylor Road Well	25N/02E-35G03	AAC879	47.61527778	-122.5088889	15	GMA	12 hours	COBI-O&M	COBI-O&M	COBI-O&M	-529	-569
Private Well	25N/02E-29P01		47.62209352	-122.5772498	65	GMA	28 days	COBI-Eng				
Private Well	25N/02E-34H02		47.61697305	-122.5248987	54	GMA	28 days	COBI-Eng				
Private Well	26N/02E-28B03		47.7190839	-122.5476258	95	GMA	28 days	COBI-Eng				
Private Well	26N/02E-34Q02		47.69727778	-122.5299444	60	GMA	26 days	COBI-Eng				
Bloedel Reserve Deep Well	26N/02E-33B03	AAC606	47.70472222	-122.5477778	180	FBA	1 hours	KPUD	KPUD	KPUD	-1030	-1050
Fletcher Bay Observation Well	25N/02E-20K03	AAA111	47.64055555	-122.5741667	80	FBA	1 hours	KPUD				
Fletcher Bay PW	25N/02E-20K04	AAC733	47.64068333	-122.5744056	85	FBA	11.9 hours	COBI-O&M	COBI-O&M	COBI-O&M	-852	-898
Island Utilities Well 1	25N/02E-34F07	AAA109	47.61638891	-122.535	144	FBA	28 days	KPUD			-734	-789
Meigs Farm	25N/02E-15J02	AAA112	47.65654925	-122.5241579	49	FBA	0.9 hours	COBI-Eng	COBI-Eng		-926	-971
North Bainbridge Well 09	25N/02E-09G04	AAB455	47.67305558	-122.5483334	125	FBA	26 days	KPUD	KPUD	KPUD	-1009	-1190
North Bainbridge Well 10	25N/02E-11E	AAC110	47.67333333	-122.5197222	351	FBA	15 days	KPUD	KPUD	KPUD	-769	-849
Sands Road 1	25N/02E-21J06	AAC875	47.64043056	-122.5418639	165	FBA	12 hours	COBI-O&M	COBI-O&M	COBI-O&M	-709	-850
Sands Road 2	25N/02E-21J07	AAC876	47.64	-122.5427778	170	FBA	12 hours	COBI-O&M	COBI-O&M	COBI-O&M	-734	-870
Private Well	24N/02E-11G02		47.58585986	-122.5068372	264	BED	28 days	COBI-Eng				
Brackenwood Lane	25N/02E-02K03		47.68292857	-122.5069217	18		28 days	COBI-Eng				

PA

26N/02E-33B01

BLOEDEL RESERVE FARM WELL

WELL LOG REPORT FOR:

Start Card No:		**USGS Site ID:**	474218122324901
DOE Site ID:	AAC759	**Internal Project N**	
Local Name:	BLOEDEL RESER	**Local Number:**	26N/02E-33B01
Water Right Permit:		**Parcel ID:**	332602-1-001-2002

OWNER:

Owner Name:

Address: **City, State Zip:** ,

LOCATION:

County: KITSAP **Q/Q1:** NW **Q/Q2:** NE **T:** 26 **R:** 2 **M:** E **S:** 33

Well Address: **City, State Zip:** ,

PROPOSED USE:

Proposed Use: **ProposedType:**

TYPE OF WORK:

Type Of Work: **Drilling Method:**

DIMENSIONS:

Diameter Of Well: **Well Depth Drilled:**

Well Depth Completed: 42

CONSTRUCTION DETAILS:

Casing Information:

Casing Type:	Diam:	From:	To:
	10	0	42.3

Perforations:

Gravel Packed:

Screens:

Seals:

PUMP:

Pump Man: **Pump Type:** **Pump Model No:**

WATER LEVELS:

Elevation: 165.00

Water Level: 14.3 **WL Date:** 8/15/1986

Art Press: **Art Press Date:** **Art Control:**

WELL TESTS:

Well Test Yields:

Test Type:	Date Of Test:	Time:	Yield:	Drawdown:
Pump	8/6/1986	3.7	13	9.3

Well Test Recoveries:

Test Type:	Date Of Test:	Time:	Water Level:
Pump Test	8/6/1986	3.7	

GEO LOG:

26N/W26-23E03

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT 25/2-MK

STATE OF WASHINGTON

Application No.
Permit No.

(1) OWNER: Name Chsey McGrath Address 4407 Blakely Ave

(2) LOCATION OF WELL: County Kitsap — NW ¼ SE ¼ Sec. 11 T. 25 N., R. 2E W.M.

Bearing and distance from section or subdivision corner See attached for more info

(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 103 ft. Depth of completed well 103 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 93 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 ☐ SS Well Screen
Manufacturer's Name
Type Telescoping Model No.
2 Diam. 5" Slot size 14 from 103 ft. to 93 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? 20 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 Franklin
Type: Submersible H.P. 1/2

(8) WATER LEVELS: Land-surface elevation above mean sea level 99 ft.
Static level 60 ft. below top of well Date 2-15-83
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? Driller

Yield:	gal./min. with	ft. drawdown after	hrs.
" 10	1 "	10 "	4 "
"	"	"	"

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
0	69'-11"	30	60'-6"		
8 min	64'-2"				
11 min	62'-3"				

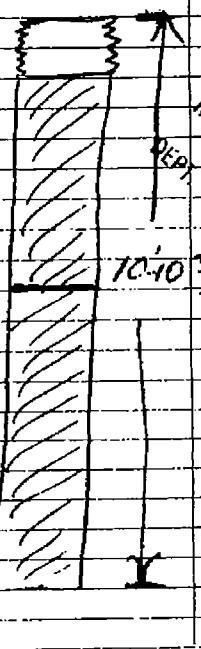
Date of test
Bailer test 14 gal./min. with 15 ft. drawdown after 4 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(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
Red, Brown, Gravel, Sand & Clay	0	2
Tan, Brown, Sand, Clay & Gravel	2	6
Gray Brown, Sandy Clay	6	14
Gray, Sand, Clay & Gravel	14	24
Gray Brown, Sand, Clay & Gravel	24	39
Gray Sand, Clay & Gravel	39	52
Gray Clay w/Sand & Gravel	52	65
Gray, Brown, Sandy Clay w/Gravel	65	78
Gray Clay Filled Sand & Gravel	78	93
Gray Sand & Gravel - H_2O	93	103
Gray Sandy Clay	103	—

Pipe Tally
20'-0 3/4" w/drive shoe
+ 9'-10 5/8
29'-11 3/8
+ 9'-10 3/4
39'-10 1/8"
+ 10'-2 3/8
49'-12 3/4
50'-0 3/4
+ 10'-0 1/8
60'-0 7/8
+ 10'-1 1/2
70'-2 3/8
+ 10'-0
80'-2 3/8
+ 10'-0 7/8
90'-3 1/4
+ 10'-0 3/4
100'-4"
+ 10'-0 7/8
110'-4 7/8
+ 14'-0
96'-4 7/8"



Work started 1-9-83, 19 Completed 2-15, 1983

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 B & M Drilling Co. (Person, firm, or corporation) (Type or print)

Address 4212 Blakely Ave. Bainbridge Is., WA 98110

[Signed] Richard F. Jamieson (Well Driller)

License No. 1022 Date 2-21, 1983

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

25N/02E-23E03

RECEIVED

MAY 23 1983

DEPARTMENT OF ECOLOGY
NORTHWEST REGION

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

24N/02E-05R01

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy 24-2E-5-R

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 24N02-05R
Permit No. None

(1) OWNER: Name I WONDER IF HERODES HOME YET, INC. c/o WILLIAM A. ISLEY Address 110 S. MAIN ST SEATTLE WN. 98104

(2) LOCATION OF WELL: County KITSAP SE ¼ SE ¼ Sec. 5 T. 24 N., R. 2 E W.M.
Bearing and distance from section or subdivision corner APPROX 1000' N 1°00'00" W FROM SEC. CORNOR 5/4 3/8

(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 ☒ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Bored ☐ Cable ☒ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 133 ft. Depth of completed well 133 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from 0 ft. to 133 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 Johnson
Type Stainless Model No.
Diam. 6 Slot size #12 from 128 ft. to 133 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? 20 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 Flint and Walling
Type: Submersible H.P. 1/2

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 113 ft. below top of well Date 11-28-76
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 5 gal./min. with 7 ft. drawdown after 24 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
Top Soil	0	4
Brown Sandy Clay	4	9
Brown Hardpan	9	129
Sand, gravel and water	129	133

Work started 11-17 19 76 Completed 11-28 19 76

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 Burt Well Drilling (Person, firm, or corporation) (Type or print)
Address Route 1, Box 283 Poulsbo, Wa. 983
[Signed] George D. Burt (Well Driller)
License No. 223-02-6084 Date 3-4 19 76

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

25N/02E-28F

Start Card No. [redacted]

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Water Right Permit No. _____

(1) OWNER: Name Clarence Johnson Address 7573 Fletcher Bay RD, NE B.I.

(2) LOCATION OF WELL: County Kitsap SE ¼ NW ¼ Sec 28 T 25 N., R 2 E W.M.

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

(3) PROPOSED USE: [X] Domestic [ ] Irrigation [ ] DeWater [ ] Industrial [ ] Test Well [ ] Municipal [ ] Other

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

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 126 feet. Depth of completed well 126 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: _____ " Diam. from _____ ft. to _____ ft.
Welded [X] 6 " Diam. from 0 ft. to 116 ft.
Liner installed [ ]
Threaded [ ] _____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ]
Manufacturer's Name COOK
Type Stainless Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. 6 Slot size 8 from 116 ft. to 126 ft.

Gravel packed: Yes [ ] No [X] Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes [X] No [ ] To what depth? 23 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name Sta-Rite
Type: Jet H.P. 2

(8) WATER LEVELS: Land-surface elevation above mean sea level 100 ft.
Static level 63 ft. below top of well Date 12-28-89
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 [X] No [ ] If yes, by whom? Driller
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" 27 " 27 " 4 "

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 28 gal./min with 24 ft. drawdown after 4 hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes [ ] No [X]

(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
Fill-Sandy	Brown	0	6
Sand-Gravel	"	6	25
Sand	"	25	65
Sand-Wet	"	65	125
Clay	"	125	—

FEB 8 1990

Work started Dec. 15, 19. Completed Dec. 29, 1989

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 CRABTREE DRILLING CO (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 23349 EGLON RD. NE, KINGSTON

(Signed) Jerry Crattin (WELL DRILLER) License No. 82

Contractor's Registration No. CRABTD 25502 Date Dec. 31, 1989

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10/87) -1329- 3

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

Well 8

25N/02E-11E01
25/02-11E

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No.
Permit No.

(1) OWNER: Name North Bainbridge Water Co. Address P.O. Box 4766 Rolling Bay 98061

(2) LOCATION OF WELL: County Kitsap — SW ¼ NW ¼ Sec. 11 T25 N., R2E 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 8 inches.
Drilled 203 ft. Depth of completed well 203 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from 0 ft. to 178 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 Johnson
Type stainless steel Model No.
Diam. 5 Slot size 14 from 180 ft. to 190 ft.
Diam. 8 Slot size 12 from 190 ft. to 200 ft.

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

Surface seal: Yes ☒ No ☐ To what depth? 20 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 None at time
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 380 ft.
Static level 140 ft. below top of well Date 2/22/85
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? Driller
Yield: 110 gal./min. with 44 ft. drawdown after 4 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 40 gal./min. with 5 ft. drawdown after 2 hrs.
Artesian flow g.p.m. Date
Temperature of water 50 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
Overburden	0	2
Brown clay	2	19
Brown sandy clay	19	56
Blue clay	56	92
Blue silty clay - H2O	92	101
Blue gravelly clay	101	107
Blue gravelly till "sepage"	107	138
Blue gravelly clay	138	143
Blue/brown sand gravel till	143	148
Brown gravel sand w/binder	148	162
Brown clay	162	179
Blue sand - H20	179	192
Tight sand - H20	192	205

Work started 2/15, 19 85. Completed 2/22, 19 85

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 GRESHAM WELL DRILLING (Person, firm, or corporation) (Type or print)

Address 3105 N.W. LAKENESS RD. POULSBO

[Signed] Reid Gresham (Well Driller)

License No. 0761 Date 3/8, 19 85

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 074766

Water Right Permit No. 25/2E/17Q ϕ1

(1) OWNER: Name Joe Onorato Address 5817 Tolo Rd. Bainbridge Is, Wa. 98110

(2) LOCATION OF WELL: County Kitsap SW ¼ SE ¼ Sec. 17 T. 25 N., R. 2E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address)

(3) PROPOSED USE: [X] Domestic [ ] Irrigation [ ] DeWater Industrial [ ] Test Well [ ] Municipal [ ] Other [ ]

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

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

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 68 ft.
Welded [X] Liner installed [ ] Threaded [ ] " Diam. from ft. to ft.
" Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ]
Manufacturer's Name Johnson
Type Stainless Steel Model No.
Diam. 6" Slot size #12 from 62'7" ft. to 68'6" ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 22 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 35 ft. below top of well Date 9-3-91
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 [X] No [ ] If yes, by whom?
Yield 20 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 15 gal./min with 10 ft. drawdown after 2 hrs.
Airtest gal./min. with stem set at ft. for 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
Brown Till	0	16
Cemented Sand + Gravel	16	20
Tight Brown Till	20	25
Cemented Brown Sand + Gravel	25	37
gray Sandy Till	37	42
Sandy gray Clay w/Peat	42	45
gravel, Clay + Water	45	49
Sand, gravel, water & clay	49	52
Silty dark gray clay, water	52	61
Sand, gravel & Water	61	68'6"

RECEIVED
SEP 17 1991
DEPT. OF ECOLOGY

Work started Aug. 91, 19. Completed Sept. 19 91

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 Burt Well Drilling, Inc. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 19782 N.E. Lincoln Rd. Poulsbo, Wa. 98372

(Signed) George D. Burt (WELL DRILLER) License No. 0048

Contractor's Registration No. BURTWI*227BH Date Sept. 11, 1991

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1 (R) (10/87) 1329

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

ile Original and First Copy with
epartment of Ecology
econd Copy — Owner's Copy
hird Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....
Permit No. 24N2E 44Ø1

(1) OWNER: Name Ms. Revell Address 4135 Bluff Lane Bainbridge Island 98110

(2) LOCATION OF WELL: County North Kitsap — SE ¼ SE ¼ Sec 33 T 25 N., R 2E W.M.

ing 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 80 ft. Depth of completed well 80 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 20 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
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name none
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level .... 365 ft.
Static level 24 ft. below top of well Date
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 20 gal./min. with 20 ft. drawdown after 1 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
OVERBURDEN	0	3
HARD PAN "MORN"	3	20
SAND & GRAVEL	20	73
HARD PAN	73	80
GRAVEL & H2O	80	80

RECEIVED
MAR 10 1980
DEPT. OF ECOLOGY
REGIONAL OFFICE
BELLEVUE, WA 98052

Work started July 22, 19 79 Completed July 24, 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 Graham Well Drilling
(Person, firm, or corporation) (Type or print)

Address 3105 N.E. Lakemass Rd. Poulsbo, Wa.

[Signed] (Well Driller)

License No. Date, 19

24/02-05K1

ile Original and First Copy with
epartment of Ecology
econd Copy — Owner's Copy
hird Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

6

Application No. .....

Permit No. .....

1) OWNER: Name Vern Schager Address 3826 Crystal Springs Dr. B.I.

2) LOCATION OF WELL: County Kitsap — NW ¼ SE ¼ Sec. 5 T. 24 N., R. 02E W.M.

earing 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 90 ft. Depth of completed well 90 ft.

6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 86 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 Johnson
Type SS Telescoping Model No. Super
Diam. 6 Slot size .012 from 86 ft. to 90 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 Sodium 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 Flint & Walling
Type: 4" Submersible H.P. 3/4

8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
atic level 42 ft. below top of well Date 3/14/79
rtesian 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
as a pump test made? Yes ☒ No ☐ If yes, by whom? Bach

eld:	3	gal./min. with	12	ft. drawdown after	1	hrs.
"	5	"	23	"	2	"
"	6	"	31	"	3	"

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

me	Water Level	Time	Water Level	Time	Water Level

Date of test 3/14/79
iler test gal./min. with 40 ft. drawdown after hrs.
rtesian flow g.p.m. Date
mperature 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
Top-soil	0	1
Hardpan	1	30
Sand & gravel	30	54
Hardpan-brown	54	84
Sand-water bearing	84	90

Long: 122° 34' 20"
Lat: 47° 35' 52"
Elev: 53'
Topo: Hillside
Map: Bremerton East
Scale: 24000

Work started 3/8, 19 79 Completed 3/14, 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 Bach Drilling Inc.
(Person, firm, or corporation) (Type or print)

Address P.O. Box 10452 Bainbridge Island

[Signed] (Well Driller)

License No. Date , 19

RECEIVED
JUL 19 1979
DEPT. OF ECOLOGY

24/02-05K1

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 5K03
Permit No. 24/02-05 K3

(1) OWNER: Name Ralph Stowell Address Pt. White Crystal Springs

(2) LOCATION OF WELL: County Kitsap — NW ¼ NE ¼ Sec 32 T 24 N., R 2E 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 67 ft. Depth of completed well 67 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 63 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 Johnson
Type Telescope Model No.
Diam. 6 Slot size 10 from 63 ft. to 67 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? 20 ft.
Material used in seal Bentenite
Did any strata contain unusable water? Yes ☒ No ☐
Type of water? Surface Depth of strata 12'
Method of sealing strata off Anti-Hydro-cement

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

(8) WATER LEVELS: Land-surface elevation above mean sea level.... 10 ft.
Static level 5 ft. below top of well Date
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? Bach
Yield: 8 gal./min. with 20 ft. drawdown after 1 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 7/12/76
Bailer test 6 gal./min. with 60 ft. drawdown after 4 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
Topsoil	0	3
Hardpan	3	12
Sand - (surface water)	12	15
Hardpan	15	36
Sandy clay	36	45
Fine sand	45	48
Hardpan	48	59
Sand - gravel	59	63
Coarse sand - water	63	67
9.185		
Long: 122° 34' 23"		
Lat: 47° 36' 18"		
Elev: 90'		
Topo: Hilldale		
Map: Bremerton East		
Scale: 24000		

Work started 6/24, 1976. Completed 7/3, 1976

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 Jim Bach Drilling Co. (Person, firm, or corporation) (Type or print)

Address Bainbridge

[Signed] Jim Bach (Well Driller)

License No. 21 Date 7/12, 1976

N 24/2-5 K3

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 25/2 2D #1
Permit No. ....

(1) OWNER: Name PAULA DEEBACH Address 9797 NE MURDEN COVE RD. B.I.

(2) LOCATION OF WELL: County KITSAP — NW ¼ NW ¼ Sec. 2 T. 25 N., R. 2E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

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

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 43 ft. Depth of completed well 43 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 39 ft.
Threaded [ ] " Diam. from ft. to ft.
Welded [X] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ] JOHNSON
Manufacturer's Name
Type 35 TELESCOPING Model No.
Diam. 6" Slot size .010 from 39 ft. to 43 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name FLINT & WALLING
Type: 4" SUBMERSIBLE H.P. 1/2

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 14 ft. below top of well Date 11/29/78
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 [X] No [ ] If yes, by whom? BACH
Yield: 15 gal./min. with 16 ft. drawdown after 4 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
0	30	25 MIN	14		

Date of test 11/29/78
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
HARDPAN - SOFT	0	15
HARDPAN	15	39
FINE SAND (WATER-BEARING)	39	43
HARDPAN	43	—
6.1 Sunset		
518 drive		
THMS. before 10 a.m.		
Long: 122° 31' 01"		
Lat: 47° 41' 31"		
Elev: 140'		
Topo: Hillside		
Map: Suquamish		
Scale: 24000		

Work started 11/25, 19 78. Completed 11/29, 19 78

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 BACH DRILLING INC.
(Person, firm, or corporation) (Type or print)
Address P.O. BOX 10152 BAINBRIDGE ISL.

[Signed]
(Well Driller)

License No. Date 11/29/78, 19

25/2E-2D

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. W053433
Unique Well I.D. # ABW244
Water Right Permit No.

(1) OWNER: Name CORRILLO, RICHARD Address 11315 26TH AVE.SOUTH SEATTLE, WA 98168-

(2) LOCATION OF WELL: County KITSAP - NW 1/4 NE 1/4 Sec 3 T 25 N., R 2E WM
(2a) STREET ADDRESS OF WELL (or nearest address) INT. PHELPS & HIDDEN COVE, BAINBRIDGE IS.

(3) PROPOSED USE: DOMESTIC

(4) TYPE OF WORK: Owner's Number of well (If more than one) 1
NEW WELL Method: ROTARY

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 41.5 ft. Depth of completed well 41 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 36.2 ft.
WELDED " 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 HOUSTON
Type STAINLESS Model No.
Diam. 5 slot size 14 from 36 ft. to 41 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 STA-RITE
Type SUBMERSIBLE H.P. 3/4

(8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.
Static level 28 ft. below top of well Date 06/20/96
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

(10) WELL LOG 25-2E-3B 01

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 CLAY SAND & GRAVEL	0	19
BROWN HARDPAN	19	30
DIRTY RED SAND GRAVEL & WATER	30	32
DIRTY BROWN SAND GRAVEL & WATER	32	40
BROWN CLAY & GRAVEL	40	41
	41	

RECEIVED
JUL 09 1996
DEPT. OF ECOLOGY

25/2E-3BV1

Work started 06/17/96 Completed 06/18/96

(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 12-15 gal/min. w/ stem set at 30 ft. for .25 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 DUCKWORTH PUMP & DRILLING
(Person, firm, or corporation) (Type or print)

ADDRESS 18365 DIAMOND DRIVE NE

[SIGNED] Donald D. Duckworth License No. 1148 1147

Contractor's
Registration No. DUCKWPW148CJ Date 06/21/96

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

25N2E Ø3GØ1
Application No. .....
Permit No. .....

(1) OWNER: Name OLLY PEDERSEN Address 13706 ELWINGER RD. BAINBRIDGE WA 98110

(2) LOCATION OF WELL: County KITSAP NW 1/4 SW 1/4 NE 1/4 Sec. 3 T 25 N., R 2 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 139 ft. Depth of completed well 139 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ..." Diam. from ... ft. to ... ft.
Threaded ☐ ..." Diam. from ... ft. to ... ft.
Welded ☒ ..." Diam. from 12 ft. to 120 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 JOHNSON
Type S. Model No.
Diam. 6 Slot size 50 from 139 ft. to 136 ft.
Diam. ... Slot size 12 from ... ft. to ... ft.

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

Surface seal: Yes ☒ No ☐ To what depth? 19 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 WESTBOLD
Type: SUB. H.P. 3

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 12 ft. below top of well Date 8-23-82
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? DRILLER
Yield: 14 gal./min. with 6 ft. drawdown after 4 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 8-23-82
Bailer test 10 gal./min. with 5 ft. drawdown after 4 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
TOP SOIL	0	2
CLAY BL.	2	18
H.P. GREY	18	25
CLAY GRAVEL GREY	25	34
CLAY SILTY BROWN	34	55
H.P. BR.	55	84
CEMENTED SAND GRAVEL GREY	84	91
CLAY BL.	91	97
SAND CLAY GRAY	97	101
H.P. GREY	101	112
SAND CLAY WEAT.	112	126
SAND CLAY BR.	126	131
H.P. BR.	131	137
GRAVEL AND WATER	137	139
H.P. BR.	139	
0.9 Driveway		
0.45 Philips		

Work started 8/19, 19 82 Completed 8/23, 19 82

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 McCoy Drilling & Well Dev. Co. (Person, firm, or corporation) (Type or print)

Address 2401 E. Bayview St. Shelton, Wa 98584

[Signed] (Well Driller)

License No. Date, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 25/02-04 D #1
Permit No.

(1) OWNER: Name Harold A. Chamberlain Address 13820 Manzanita RD. NE., Bainbridge

(2) LOCATION OF WELL: County Kitsap — SW ¼ NW ¼ Sec. 4 T. 25 N., R. 2E W.M.
Bearing and distance from section or subdivision corner 1680' W & 740' N of center of Sec. 4.

(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 81 ft. Depth of completed well 81 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 81 ft. 74
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 Johnson
Type stainless Model No.
Diam. 6 Slot size 15 from 74 ft. to 79 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.... ft.
Static level 52 ft. below top of well Date 2/16/78
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 15 gal./min. with 8 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 sandy clay	0	12
brown sandy caly & gravel	12	49
same with little water	49	64
cemented gravel	64	76
s&g, water bearing	76	79
fine muddy sand	79	81

Work started Feb. 13, 19 78. Completed Feb. 16, 19 78

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 Indrebo Drilling (Person, firm, or corporation) (Type or print)
Address 1653 S. 95th, Tacoma, Wa 98444
[Signed] Roger Indrebo (Well Driller)
License No. 0505 Date Feb. 17, 19 78

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 25N2E 10E
Permit No. 9811

(1) OWNER: Name Nancy Franklin Address 12435 Miller Rd, Bainbridge Island

(2) LOCATION OF WELL: County Kitsap SW ¼ NW ¼ Sec. 10 T. 25 N., R. 2 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 99 ft. Depth of completed well 99 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ..." Diam. from .. ft. to .. ft.
Threaded ☐ ..." Diam. from .. ft. to .. ft.
Welded ☒ 6" Diam. from 0 ft. to 94 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 Johnson
Type Star Lock Model No.
Diam. .. Slot size .. from .. ft. to .. ft.
Diam. 6 Slot size 12 from 94 ft. to 99 ft.

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

Surface seal: Yes ☒ No ☐ To what depth? 20 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 Sta-Rite
Type: Jet H.P. ½

(8) WATER LEVELS: Land-surface elevation above mean sea level .... 160 ft.
Static level 14 ft. below top of well Date 4-7-87
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? Driller
Yield: gal./min. with ft. drawdown after hrs.
" 15 " 9 " 4 "
" " " "

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 15 gal./min. with 8 ft. drawdown after 3 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
Top soil	Brown	0	2
Gravel	"	2	6
Hard pan	"	6	9
Hard pan	"	9	12
Hard pan	Gray	12	58
Sand & Gravel - Dirty	"	58	59
Clay	Blue	59	61
Sand & Gravel - Cemented	Gray	61	88
Sand & Gravel	"	88	99

RECEIVED
APR 27 1987
DEPT. OF ECOLOGY

Work started March 26, 1987 Completed April 7, 1987

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 CRABTREE DRILLING CO. (Person, firm, or corporation) (Type or print)

Address 33349 EGLON RD. NE KINGSTON

[Signed] Jerry Crabtree (Well Driller)

License No. 82 Date April 13, 1987

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

25N/2E-10E-01

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 25N2E 15D
Permit No. ....

(1) OWNER: Name Douglas Picha Address 8401 N.E. Koura Rd., Bainbridge I

(2) LOCATION OF ~~WELL:~~ County Kitsap ~~North-307-186-ft~~ NW ¼ NW ¼ Sec. 15 T. 25 N., R. 2E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

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

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 145 ft. Depth of completed well 145 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 145 ft.
Threaded [ ] " Diam. from ft. to ft.
Welded [X] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ]
Manufacturer's Name ~~Bentonite~~ Johnson
Type Stainless Steel Model No.
Diam. 6" Slot size #12 from 140 ft. to 145 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 22 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 Flint & Walling
Type: Submersible H.P. 1

(8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.
Static level 125 ft. below top of well Date 12-85
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 16 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
Brown Sandy Hardpan	0	35
Gray Sandy Hardpan	35	58
~~Brown~~ Blue Sandy Hardpan	58	96
Brown Sandy Hardpan	96	135
Sand & Water	135	145

RECEIVED JAN 29 1986 DEPARTMENT OF ECOLOGY NORTHWEST REGION

Work started, 19 Completed Dec., 19 85

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 Burt Well Drilling Inc. (Person, firm, or corporation) (Type or print)

Address 19782 N.E. Lincoln Rd. Poulsbo Wa. 98370

[Signed] George Burt (Well Driller)

License No. ~~0~~ 0048 Date 12-, 19 85

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

25N2E-15D01

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 25N2E 16DØ2
Permit No. ....

(1) OWNER: Name Charles Pollman Address 1081 Arrow pt. Dr. B.I. 98110

(2) LOCATION OF WELL: County Kitsap — NW ¼ NW ¼ Sec. 16 T. 25 N., R. 2E 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 100 ft. Depth of completed well 94 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ....." Diam. from .... ft. to .... ft.
Threaded ☐ ....." Diam. from .... ft. to .... ft.
Welded ☒ 6 " Diam. from 0 ft. to 89 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 Johnson
Type Stainless Steel Model No....
Diam. .... Slot size .... from .... ft. to .... ft.
Diam. 6 Slot size 10 from 89 ft. to 94 ft.

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

Surface seal: Yes ☒ No ☐ To what depth? 20 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 Ste-Rite
Type: Jet H.P. ½

(8) WATER LEVELS: Land-surface elevation above mean sea level.... 80 ft.
Static level 29 ft. below top of well Date 6-19-85
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? Driller
Yield: .... gal./min. with .... ft. drawdown after .... hrs.
" 5 " 36 " 4 "
" " " "

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 5 gal./min. with 29 ft. drawdown after 3 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
Top soil Brown	0	2
Hard pan Sandy "	2	45
Hard pan Clay	45	57
Sand + Gravel - Clay bound "	57	85
Sand - Dirty "	85	89
Sand - Dirty - Loose "	89	93
Hard pan "	93	—

RECEIVED
AUG 21 1985
DEPARTMENT OF ECOLOGY
NORTHWEST REGION

Work started Jun 10, 1985 Completed Jun 19, 1985

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 CRABTREE DRILLING CO (Person, firm, or corporation) (Type or print)

Address 30349 EGLON RD. NE KINGSTON

[Signed] Jerry Crabtree (Well Driller)

License No. 82 Date July 1, 1985

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

C7/02 - 100

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 25N2E 16P#1
Permit No. ....

(1) OWNER: Name [illegible] Address 10228 [illegible]

(2) LOCATION OF WELL: County [illegible] SW ¼ of SE ¼ SW ¼ Sec. 16 T. 25 N., R. 2 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 4 inches.
Drilled 85 ft. Depth of completed well 85 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ....." Diam. from .... ft. to .... ft.
Threaded ☐ ....." Diam. from .... ft. to .... ft.
Welded ☒ 4 " Diam. from 0 ft. to 78 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 Johnson
Type Stainless Model No....
Diam. .... Slot size .... from .... ft. to .... ft.
Diam. 4 Slot size 10 from 78 ft. to 85 ft.

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

Surface seal: Yes ☒ No ☐ To what depth? 20 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 Goulds
Type: Jet H.P. 1

(8) WATER LEVELS: Land-surface elevation above mean sea level.... 200 ft.
Static level 52 ft. below top of well Date 8-5-83
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? Driller
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" 25 " 1 " 4 "

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 25 gal./min. with 1 ft. drawdown after 4 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
Topsoil Brown	0	2
Hard pan "	2	5
Gravel - Cemented "	5	15
Gravel - Clay bound "	15	25
Gravel & Sand - Cemented Brown	25	35
Hard pan Brown	35	45
Gravel - Cemented "	45	67
Gravel & Water "	67	85
Greg Clark		
842-4339		

RECEIVED
AUG 24 1983
DEPT. OF ECOLOGY

Work started July 22, 19 83 Completed Aug 5, 19 83

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 CRABTREE DRILLING CO
(Person, firm, or corporation) (Type or print)

Address 13349 FOLSOM RD. NE KINGSTON

[Signed] [illegible]
(Well Driller)

License No. 82 Date Aug 8, 19 83

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. 25N2E 17Q01

(1) OWNER: Name Brian Russell Address 203 Shannon Drive Winslow Wa 98110

(2) LOCATION OF WELL: County Kitsap — SW ¼ NE ¼ Sec. 17 T. 25 N., R. 2E W.M.
Bearing and distance from section or subdivision corner Property Corner is 489.24' Bearing N 0°25'51" E from center of S17.

(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 75 ft. Depth of completed well 75 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 25 ft. (69)
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 Johnson
Type Stainless Steel Model No. ....
Diam. 6" Slot size #10 from 65.25" ft. to 25 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? 22 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 .... ft.
Static level 55 ft. below top of well Date 6-82
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 12 gal./min. with 2 ft. drawdown after 2 hrs.
Artesian flow ... g.p.m. Date ....
Temperature of water .... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG: Well is 289' Bearing N 11°30' E from center of S17.

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 Hardpan	0	2
Grey Brn. Hardpan	2	22
Grey Clayish Hardpan	22	28
~~Blue Clayish Gravelly Hardpan~~	~~28~~	~~31~~
Brn. Gravelly Hardpan	31	60
Fine Brn. Sand, Gravel & Water	60	62
Brn. Gravelly Hardpan	62	66
Greyish Hardpan	66	68
Blue Sand, Gravel & Water	68	75
Blue Clayey Sand & Gravel	75	

Work started 6-21, 19 82 Completed 6-24, 19 82

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 Burt Drilling Inc. (Person, firm, or corporation) (Type or print)
Address Rt 1 Box 253 Poulsbo, Wa. 98370
[Signed] George D. Burt (Well Driller)
License No. 2088 Date 7-9, 19 82

RECEIVED JUL 15 1982 DEPARTMENT OF ECOLOGY NORTHWEST REGION

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

Kathy Weibel

25N2E 20L07

WATER WELL REPORT

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

Construction/Decommission ("x" in circle)
XI Construction
O Decommission *ORIGINAL CONSTRUCTION Notice of Intent Number*

CURRENT Notice of Intent No. 58677

Unique Ecology Well ID Tag No. AHB475

Water Right Permit No.

Property Owner Name KITSAP TRIDENT HOMES

Well Street Address FLETCHER LANDING ROAD

City BAINBRIDGE ISLAND County: KITSAP

Location NE 1/4 - 1/4 SW 1/4 Sec. 20 Twn 25 R 2E BWM or WWM (circle one)

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

Tax Parcel No. **4192000015010 2 & 4192000016000 2

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

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

DIMENSIONS: Diameter of well 6 inches, drilled 73 ft.
Depth of completed well 73 ft.

CONSTRUCTION DETAILS
Casing Installed: XI Welded 6" Diam. from +1 ft. to 67'9" ft.
☐ Liner installed ____" Diam. from ____ ft. to ____ ft.
☐ Threaded ____" Diam. from ____ ft. to ____ ft.

Perforations: ☐ Yes XI No
Type of perforator used
SIZE of perfs ____ in. by ____ in. and no. of perfs ____ from ____ ft. to ____ ft.

Screens: XI Yes ☐ No XI K-Pac Location TOP
Manufacturer's Name JOHNSON
Type STAINLESS STEEL Model No.
Diam. 6 Slot Size 12 from 68 ft. to 73 ft.
Diam. ____ Slot Size ____ from ____ ft. to ____ ft.

Gravel/Filter packed: ☐ Yes XI No ☐ Size of gravel/sand
Materials placed from ____ ft. to ____ ft.

Surface Seal: XI Yes ☐ No To what depth? 18 ft
Materials used in seal BENTONITE
Did any strata contain unusable water? ☐ Yes XI No
Type of water? Depth of strata
Method of sealing strata off

PUMP: Manufacturer's Name GOULDS
Type: SUBMERSIBLE 10LS07 H.P. 3/4

WATER LEVELS: Land-surface elevation above mean sea level ____ ft.
Static level 55.4 ft. below top of well Date 7/07/03
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? XI Yes ☐ No If yes, by whom? GRESHAM
Yield: 16 gal./min. with 7 ft. drawdown after 1+ 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
FULL RECOV. IN 30 SEC.					

Date of test 7/07/03
Bailer test 20+ gal./min. with 1 ft. drawdown after 1 hrs.
Airtest ____ gal./min. with stem set at ____ ft. for ____ hrs.
Artesian flow ____ g.p.m. Date
Temperature of water ____ Was a chemical analysis made? XI Yes ☐ No

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
OVERBURDEN	0	1
BROWN GRAVELLY HARDPAN	1	11
BROWN SAND, HARDPAN	11	39
BROWN SILTY SAND & GRAVEL	39	47
BROWN GRAVELLY HARDPAN	47	55
BROWN SILTY SAND & GRAVEL	55	62
BROWN SILTY SAND & GRAVEL, H2O	62	72
BROWN GRAVELLY HARDPAN	72	73

Start Date 6/30/03 Completed Date 7/02/03

25N/2E - 20L07

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.

XI Driller ☐ Engineer ☐ Trainee Name (PRINT) CRAIG A. GRESHAM Drilling Company GRESHAM WELL DRILLING INC

Driller/Engineer/Trainee Signature

Address P.O. BOX 1600

Driller or Trainee License No. 0761 City, State, Zip POULSBO, WA 98370-0195

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

Contractor's Registration No. GRESHWD055BC Date 7/09/03

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

25N2E 20P02

No log available for this well.

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON AAA579

Application No 25N2E 21B02
Permit No

(1) OWNER: Name MARY Kotz Address RT 5 BOX 5754 BAINBRIDGE

(2) LOCATION OF WELL: County KITSAP — ¼ LOT 4 ¼ Sec 21 T 25 N, R 2E W.M.

Block or Lot 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 105 ft Depth of completed well 105 ft

(6) CONSTRUCTION DETAILS:

Casing installed. 6" Diam from 0 ft to 101 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
Manufacturer's Name
Type Telescoping Model No
Diam 5 x 6 Slot size 12 from 105 ft to 101 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? 20 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 FLINT-WALLING
Type SUBMERSIBLE H.P. 1/2

(8) WATER LEVELS: Land-surface elevation above mean sea level
Static level 66 ft below top of well Date 5-11-78
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? BACH
Yield 15 gal/min with 25 ft drawdown after 4 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 13 gal/min with 16 ft drawdown after 4 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
Red Brown Hard Pan	0	5
Brown Sandy Hard Pan	5	22
Brown Sandy Clay	22	69
Gray Brown Sandy Clay	69	85
Gray Sand - Water	85	105

Pipe Tally
20 - 4 include O.S.
+20 - 0 1/2
40 - 4 1/2
+20 - 0 1/2
60 - 5
+20 - 0 1/4
80 - 5 1/4
+ 9 - 6 3/4 91 - 0
90 - 0 +10 - 0
+ 5 - 0 101 - 0
95 - 0 + 4 - 0
- 4 - 0 105 - 0
91 - 0 = 4 - 0
101 - 0

Work started 5-4-, 1978 Completed 5-11, 1978

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 Jim Bach Drilling Co. (Person, firm or corporation) (Type or print)

Address P.O. Box 10452 Bainbridge

[Signed] Jim Bach (Well Driller)

License No 21 Date 5/15, 1978

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1 20

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

ENTERED

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. W063473
UNIQUE WELL I.D. # ACG541
Water Right Permit No. 25-2E-22E Ø3

(1) OWNER: Name MR. TED RUYS Address 9216 NE RUYS LANE, BAINBRIDGE ISLAND, WA 98110

(2) LOCATION OF WELL: County KITSAP - SW 1/4 NW 1/4 Sec 22 T. 25 N., R. 2E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 9216 NE RUYS LANE

(3) PROPOSED USE: [X] Domestic [ ] Irrigation [ ] DeWater [ ] Industrial [ ] Test Well [ ] Municipal [ ] Other

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

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 134 feet. Depth of completed well 134 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 129 ft.
Welded [X] Liner installed [ ] Threaded [ ]
" Diam. from ft. to ft.
" Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ]
Manufacturer's Name JOHNSON
Type STAINLESS STEEL Model No.
Diam. 6 Slot size 12 from 129 ft. to 134 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name GOULDS
Type: SUBMERSIBLE 10GS07 H.P. 3/4

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 73 ft. below top of well Date 1/19/97
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 [X] No [ ] If yes, by whom? GRESHAM
Yield: 15 gal./min. with 33 ft. drawdown after 2 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
FULL RECOV. IN 5 MIN.					

Date of test 1/19/97
Bailer test 11 gal./min. with 27 ft. drawdown after 1 hrs.
Airtest gal./min. with stem set at ft. for hrs.
Artesian flow g.p.m. Date
Temperature of water 50 Was a chemical analysis made? Yes [X] 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
BROWN OVERBURDEN	0	1
BROWN CLAYISH TOPSOIL	1	3
BROWN GRAVELLY HARDPAN	3	35
GRAY GRAVELLY HARDPAN	35	62
BROWN GRAVELLY HARDPAN	62	67
BROWN SANDY HARDPAN & GRAVEL	67	74
BROWN SAND & GRAVEL	74	77
BROWN GRAVELLY HARDPAN	77	88
GRAY GRAVELLY HARDPAN	88	103
GRAY COARSE SAND & GRAVEL	103	107
GRAY GRAVELLY HARDPAN	107	129
GRAY SAND & GRAVEL	129	130
GRAY SILTY SAND	130	132
GRAY SILTY SAND & GRAVEL, H20	132	134

RECEIVED
MAR 12 1997
DEPT. OF ECOLOGY

Work Started 1/10/97, 19. Completed 1/15/97, 19

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 GRESHAM WELL DRILLING, INC. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address 3105 NW LAKENESS ROAD, POULSBO, WA 98370
(Signed) (WELL DRILLER) License No. 0761
Contractor's Registration No. GRESHWD055BC Date 3/05/97, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.

ECY 050-1-20 (9/93) * * I

25N/2E-22B03

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

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 038550

25N2E 27D03

Water Right Permit No.

(1) OWNER: Name Vince Sellen Address 8089 Hykebeck Rd. B.I. 98110

(2) LOCATION OF WELL: County Kitsap NW ¼ NW ¼ Sec 27 T. 25 N., R. 2 E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address)

(3) PROPOSED USE: [X] Domestic [ ] Irrigation [ ] DeWater Industrial [ ] Test Well [ ] Municipal [ ] Other [ ]

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

Abandoned [ ] New well [X] Deepened [ ] Reconditioned [ ] Method: Dug [ ] Cable [X] Rotary [ ] Bored [ ] Driven [ ] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 117 feet. Depth of completed well 117 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: " Diam. from ft. to ft.

Welded [X] 6 " Diam. from 0 ft. to 113 ft.

Liner installed [ ] " Diam. from ft. to ft.

Threaded [ ]

Perforations: Yes [ ] No [X]

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 [X] No [ ]

Manufacturer's Name Houston

Type Stainless Model No.

Diam. 6 Slot size 10 from 113 ft. to 117 ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel

Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 20 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes [ ] No [X]

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name Sta-Rite

Type: Sub H.P. 3/4

(8) WATER LEVELS: Land-surface elevation above mean sea level 180 ft.

Static level 11'-6" ft. below top of well Date 3-22-91

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 [X] No [ ] If yes, by whom? Driller

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

" 6 " 76 " 4 "

" " " "

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 6 gal./min. with 83 ft. drawdown after 3 hrs.

Airtest gal./min. with stem set at ft. for hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes [ ] No [X]

(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
Top soil	Brown	0	3
Clay - Sandy	"	3	12
Hard pan	"	12	25
Hard pan - Hard	Gray	25	72
Sand & Gravel - Cemented	"	72	112
Sand & Gravel	"	112	117

Work started March 12, 19 91 completed March 22, 19 91

RECEIVED APR 16 1991 DEPT. OF ECOLOGY

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 CRABTREE DRILLING CO (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 33349 EGLON RD. NE, KINGSTON

(Signed) Jerry Crabtree (WELL DRILLER) License No. 82

Contractor's Registration No. CRABTD 255O2 Date April 1, 19 91

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY-050-1-20 (10/87) -1329- 3

20 Ore-2015

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No. / 078268
Water Right Permit No.

(1) OWNER: Name HOFFMAN, MARK Address 5150 N. TOLO RD. BAINBRIDGE, IS, WA 98110- 25N2E 28NØ2

(2) LOCATION OF WELL: County KITSAP - SW 1/4 SW 1/4 Sec 28 T 25 N., R 2E WM
(2a) STREET ADDRESS OF WELL (or nearest address) NXT 6717 NE MARSHALL RD

(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 59.5 ft. Depth of completed well 59.5 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 50 ft.
WELDED " 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 HOUSTON
Type STAINLESS Model No.
Diam. 5 slot size 10 from 59.5 ft. to 54.5 ft.
Diam. 5 slot size 10 from 54.5 ft. to 49.5 ft.

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

Surface seal: YES To what depth? 20 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 STA-RITE
Type SUBMERSIBLE H.P. 3/4

(8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.
Static level 40 ft. below top of well Date 06/30/93
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

(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 HARDPAN	0	8
GRAY HARDPAN	8	19
LIGHT BROWN HARDPAN	19	29
LIGHT BROWN GRAVEL & CLAY	29	31
LIGHT BROWN SAND & CLAY	31	34
LIGHT BROWN CLAY	34	37
GRAY CLAY	37	39
LIGHT BROWN CLAY	39	41.5
BROWN SAND	41.5	52.5
GRAVEL SAND & WATER	52.5	59.5
	59.5	

6621

RECEIVED
AUG 19 1993
DEPT. OF ECOLOGY

Work started 06/30/93 Completed 06/30/93

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? YES If yes, by whom? ROSS
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 8 gal/min. w/ stem set at 55 ft. for 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? YES

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

ADDRESS 18365 DIAMOND DRIVE NE
[SIGNED] Donald Duckworth License No. 1148 1147

Contractor's
Registration No. DUCKWPW148CJ Date 07/08/93

25/2-28 NW

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application Permit No. 25N2E 29J01

(1) OWNER: Name Lynn Heppler Address Missoula, Montana

(2) LOCATION OF WELL: County Kitsap — NW ¼ SE ¼ Sec. 29 T. 25 N., R. 02E 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 114 ft. Depth of completed well 114 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 109 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 Johnson
Type SS Telescoping Model No.
Diam. 6 Slot size .014 from 109 ft. to 114 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 Sodium 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 Flint & walling
Type: 4" Submersible H.P. 1/2

(8) WATER LEVELS: Land-surface elevation above mean sea level 150 ft.
Static level 67 ft. below top of well Date 6/1/79
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? Bach

Yield:	gal./min. with	ft. drawdown after	hrs.
2	10	1	
" 4	" 21	" 3	"
" 7	" 31	" 5	"

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 6/1/79
Bailer test 4 gal./min. with 18 ft. drawdown after 3 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
Hardpan	0	41
Sand-fine-gray	41	46
Sand-brown	46	70
Hardpan-gray	70	80
Clay-rocky-blue	80	90
Clay-sandy-blue	90	95
Sand-coarse-gray	95	114

Long: 122° 34' 14"
Lat: 47° 37' 37"
Elev: 380'
Topo: Hilltop
Map: Bremerton
Scale: 24000

Work started 5/10, 1979 Completed 6/1, 1979

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 Bach Drilling Inc. (Person, firm, or corporation) (Type or print)

Address P.O. Box 10452 Bainbridge Isl.

[Signed] (Well Driller)

License No. 126 Date 6/5, 1979

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

25/23-29 Q 4

Claire Moe

25N2E 35M03

PRODUCTION DATA (1)

R - 134 146 * (flowing, pumped) | T= A D M * (add, delete, modify) | Entry No 147 # * | Date 143 = / / * (month day year)

Discharge: 150 = * | Source of Data 151 = * | Draw-down 309 = *

Method of Measurement 152 = B C E F M O P R T U V W Z * (bailer, current meter, estimated, flume, totaling meter, orifice, pitot-tube meter, reported, trajectory, venturi, volumetric, weir, other)

Production Level 153 = * | Static Level 154 = * | Source of Data 155 = * | Specific Capacity 272 = *

Method of Measurement 156 = A B C E G H L M N R S T V Z * (airline, analog, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, non-rec. gage, reported, steel tape, electric tape, calibrated electric tape, other)

Pumping Period 157 = *

LIFT DATA (1)

R = 42 * | T= A D M * (add, delete, modify) | Type of Lift 43 # A B C J P R S T U Z * (air, bucket, centrifugal, jet, piston, rotary, submersible, turbine, unknown, other) | Entry No 254 # *

Pump Intake Setting 44 = * | Type of Power 45 = D E G H L N W Z * (diesel, electric, gasoline, hand, LP gas, natural gas, windmill, other)

Date 38 = 01/25/1985 * (month day year) | Horsepower 46 = *

Manufacturer of Pump 48 = *

Pump Rating 53 = *

Rated Pump Capacity 268 = *

Lift Entry No 254 # *

Source of Data 202 = D

Source Agency 117 # *

Analyzing Agency 307 *

Source Agency 124 #

Source Agency 110

DRILLER'S LOG AND DEVELOPMENT

No. 25 / 2 - 35M

Date 10-3, 1951

Record by H

Source H.O. Meyer-log book

Location: State of WASHINGTON

County Kitsap

Area Bainbridge Island

Map Port Orchard

NE ¼ ¼ sec. T. N., R. E. W.

DIAGRAM OF SECTION

Drilling Co. H.O. Meyer

Address Kirkland

Method of Drilling Cable tool Date 19

Owner Chukar

Address Eagledale

Land surface, datum ft. above / below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Sand and gravel	5	5
	Hardpan and clay	7	12
	Clay	19	31
	Sand and gravel, water	11	42

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Sheet ____ of ____ sheets

SPA

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

AAC077

25N/02E-34R05

81

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG Winslow C site No. Appli. 3629
Permit #3436

Date July 24, 19 54

Record by LeRoy Gunnarson

Source Driller's Record

Location: State of WASHINGTON

County Kitsap

Area

Map

SE ¼ SE ¼ sec. 34 T. 25 N., R. 2 E. W.

Diagram of Section

File number 25N/2E-34R

Drilling Co. Service Hardware & Implement Co.

Address

Method of Drilling Date July 15, 1924

Owner U. S. Corps of Engineers

Address Seattle 4, Wash.

Land surface, datum ft. above below

Correlation	Material	Thickness (feet)	Depth (feet)
	Sand & rock, hard packed	46	46
	Gravel with clay	29	75
	Sand & clay	55	130
	Sand & gravel, hard packed	41	171
	Hard pan	9	180
	Sand & gravel	5	185
	Pump Test:		
	Dim: 185' x 6" Drilled		
	SWL: 151'		
	DD: 2'		
	Yield: 15 g.p.m.		
	Casing: 6" dia. from 0 to 185'		
	Perfor: Cook screen, 5 ft. long .030		
	from 180 to 185'		
	Shoe: None given		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up (over) Sheet ____ of ____ sheets

25N/2E 34R05

Eagledale Park

AAC077

25N/Ø2E-34RØ5

WELL LOG.—Continued No...../.....-.....

Correlation	Material	Thickness (feet)	Depth (feet)
	Depth forward	——	
	Size & type of pump: not given		

S. F. No. 7442—12-54—3M. 40108.

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

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 000727
25N2E 23K
Permit No. ....

(1) OWNER: Name Ferncliff Water ass. Address 8710 Grandview Bainbridge Island

(2) LOCATION OF WELL: County Kitsap — NW ¼ SE ¼ Sec. 23 T. 25 N., R. 2 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 608 ft. Depth of completed well 209 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ..." Diam. from .... ft. to .... ft.
Threaded ☐ ..." Diam. from .... ft. to .... ft.
Welded ☒ 6" Diam. from 0 ft. to 204 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 Johnson
Type Stainless Model No. ....
Diam. .... Slot size .... from .... ft. to .... ft.
Diam. 6 Slot size 10 from 204 ft. to 209 ft.

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

Surface seal: Yes ☒ No ☐ To what depth? 20 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 Sta-Rite
Type: Jet H.P. 1/2

(8) WATER LEVELS: Land-surface elevation above mean sea level .... 140 ft.
Static level 125 ft. below top of well Date 2-3-88
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? Driller

Yield:	gal./min. with	ft. drawdown after	hrs.
3	66	13	

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 3 gal./min. with 45 ft. drawdown after 4 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
Sandy loam	Brown	0	4
Hard pan	"	4	6
Hard pan - Rocky	"	6	8
Hard pan	"	8	61
Hard pan - Hard	"	61	65
Hard pan	Brown	65	70
Sand + Gravel - Cemented	Brown	70	74
Sand + Gravel - Cemented	Brown	74	109
Sand + Gravel - Cemented	"	109	111
Hard pan - Sandy Clay	"	111	126
Clay	Blue	126	157
Silt	"	157	178
Clay - Sticky	"	178	207
Sand	"	207	212
Silt	"	212	230
Soggy sand - Clamshells	"	230	231
Silt - Compact	Blue/Brown	231	275
Clay - Gritty	Black	275	302
Clay + sand	Black	302	304
Sand - Dirty	"	304	309
Silt	Blue/Black	309	320
Silt - Sandy	" / "	320	322
Clay - Gritty	" / "	322	350
Silt + wood	" / "	350	353
Silt - Hard	" / "	353	395
Silt - Sandy	" / "	395	413
Silt - Soggy	" / "	413	415
Silt + wood particles	" / "	415	476
Clay	Blue	476	608

Work started Dec. 11, 19 87. Completed Feb. 4, 19 88

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 CRABTREE DRILLING CO. (Person, firm, or corporation) (Type or print)

Address 33349 EGLON RD. NE KINGSTON

[Signed] Jerry Crabtree (Well Driller)

License No. 82 Date Feb 8, 19 88

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

25N/02E-04G03
21/02-43

HIDDEN COVE UTILITIES SHOP

File Original and First Copy with Department of Ecology
Second Copy -- Owner's Copy
Third Copy -- Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No.

(1) OWNER: Name BILL LAMPIERE Address 8451 SPRING BROOK RD. BAINBRIDGE IS. 98110

(2) LOCATION OF WELL: County KITSAP SE ¼ SW ¼ NE ¼ Sec. 4 T. 25 N., R. 2E 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 55 ft. Depth of completed well 55 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: " Diam. from ft. to ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ 6" Diam. from 0 ft. to 51 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 CODA
Type SS Model No.
Diam. 5 Slot size 10 from 51 ft. to 55 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 WATER WITCH
Type: SUBMERSIBLE H.P. ½

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 27 ft. below top of well Date 2-29-84
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? DRILLER
Yield: 18 gal./min. with 11 ft. drawdown after 4 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 15 gal./min. with 10 ft. drawdown after 4 hrs.
Artesian flow g.p.m. Date 2-29-84
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
H.P. BROWN HARD	0	31
CLAY SAND BR.	31	33
H.P. BROWN HARD	33	46
SANDSTONE (WATER)	46	55

Work started 2-24 19 84 Completed 2-29 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 DRILLING & DEVELOPMENT CO. (Person, firm, or corporation) (Type or print)
Address 6070 N.E. SPARGUR LOOP RD. BAINBRIDGE IS., WA. 98110

[Signed] Victor H. Cipe (Well Driller)

License No. 0120 Date 2-29 , 1984

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

HIGH SCHOOL WELL 2 / COMMODORE

25N/02E-22R02

25/2-22R

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. G1-23678

Permit No. ....

(1) OWNER: Name BAINBRIDGE ISLAND SCHOOL DISTRICT #303 Address BAINBRIDGE ISLAND, WASHINGTON

(2) LOCATION OF WELL: County KITSAP — SE ¼ SE ¼ Sec. 22 T. 25 N., R. 2 E W.M.

Bearing and distance from section or subdivision corner 1300' WEST, 630' NORTH S.E. CORNER SEC. 22

(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 ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☒ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 12 inches.

Drilled 380 ft. Depth of completed well 264 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 12" Diam. from 0 ft. to 191 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 JOHNSON

Type 304 STAINLESS Model No. ...

Diam. 6" Slot size 23 from 191 ft. to 211 ft.

Diam. 6" Slot size 23 from 240 ft. to 250 ft.

Gravel packed: Yes ☒ No ☐ Size of ~~gravel~~ SAND: E1-16

Gravel placed from 145 ft. to 264 ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.

Material used in seal CEMENT GROUT

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 129.5 ft. below top of well Date 9/9/80

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? ROBINSON NOBLE, CARR

Yield: 100 gal./min. with 25.5 ft. drawdown after 4 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 9/9/80

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
FILL	0	6
CLAY, SANDY, BROWN	6	30
SAND AND CLAY, BLUE	30	38
LAYER OF FINE SAND, BROWN,	38	48
CLAY, SANDY, BLUE	48	100
SAND AND GRAVEL, CLAY BOUND, GRAY	100	120
SAND AND GRAVEL, CLAY BINDER, NO WATER	120	151
SAND, FINE TO MED. W/SOME COARSE SAND AND ACC. GRAVEL	151	165
SAND F. TO M., GRAY-BROWN, DIRTY. SAND GRADES TO V. FINE TO MED. AND DIRTIER WITH DEPTH	165	270
CLAY, GRAY OR CLAYEY SILT SLIGHTLY SANDY AT DEPTH	270	350
SILT, SANDY, CLAYEY, GRAY WITH PEAT, SILTY PEAT AND PEATY SILT	350	361
SILT SANDY, FINE AND SAND, VERY FINE, SILTY	361	380

RECEIVED OCT 17 1980 DEPT. OF ECOLOGY

RECEIVED OCT 14 1980 AEHLE, THURMAN, & deMERS, INC., P.S.

Work started AUG. 18, 1980 Completed SEPT. 9, 1980

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 ARMSTRONG DRILLING INC. (Person, firm, or corporation) (Type or print)

Address PUYALLUP, WASH.

[Signed] Martin B. Sebum (GEOLOGIST) (Well Driller)

License No. 0012 Date 10-10 1980

PREPARED BY ROBINSON, NOBLE & CARR, INC. 5915 Orchard St. W. Tacoma, Wash. 98467

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

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

25N/02E-09G06

25/2E 1ST
Application No

File Original and First Copy with Department of Ecology
Second Copy Owner's Copy
Third Copy Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Permit No G1-22940

(1) OWNER: Name North Bainbridge Water Co. Address Bainbridge Island, WA 98110

(2) LOCATION OF WELL: County Kitsap — SW¼ NE¼ Sec. 9 T25 N., R2E 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) #1

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

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 40 ft. Depth of completed well 62.5 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 62.5 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 Johnson
Type Stainless Steel Model No.
Diam. 6 Slot size #12 from 57.5 ft. to 62.5 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? ft.
Material used in seal
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. 1/2 hp

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 40 ft. below top of well Date 7-15-77
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.

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
Unknown	0	40
Brown Hardpan	40	60
Sand, Gravel & Water	60	62.5

Work started 7-14 19 77 Completed 7-15 19 77

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 Burt Well Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address RT. 1, Box 283 Poulsbo, Wa. 98370

[Signed] George D. Burt (Well Driller)

License No. 0048 Date 3-30 19 78

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy 25/2E/11/E

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 25/02-11E

Permit No. ....

(1) OWNER: Name CLEMENT AQUINO Address Rt. 7 Box 749 Bainbridge Island, W.A.

(2) LOCATION OF WELL: County KITSAP — SW ¼ NW ¼ Sec. 11 T. 25 N., R. 2E 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 60 ft. Depth of completed well 60 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 60 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 JOHNSON
Type STAINLESS Model No.
Diam. 6 Slot size 18 from 55 ft. to 60 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.... ft.
Static level 47 ft. below top of well Date 5/14/74
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 5/10/74
Bailer test 12 gal./min. with 5 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
Topsoil	0	3
Sandy Clay + gravel	3	8
Hard pan	8	15
Blue Clay	15	18
Sandy Brown Clay + gravel	18	28
Blue Silty Clay	28	55
Sand & gravel	55	60

Work started MAY 7, 1974. Completed MAY 10, 1974

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 Roy STANFILL DRILLING (Person, firm, or corporation) (Type or print)

Address Rt. 4, Box 2145, BREMERTON, WA.

[Signed] Roy L Stanfill (Well Driller)

License No. 223-12-4165 Date MAY 12, 1974

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

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

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

25/2-21B

Start Card No. 027773

25N2E 21

Water Right Permit No.

(1) OWNER: Name Mr. David Berfield Address 9461 Mandus-Olson Rd., B.I. 98110

(2) LOCATION OF WELL: County Kitsap NW ¼ NE ¼ Sec. 21 T. 25 N., R. 2E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) "Mandus-Olson Road"

(3) PROPOSED USE: [X] Domestic [ ] Irrigation [ ] DeWater Industrial [ ] Test Well [ ] Municipal [ ] Other [ ]

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

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 209 feet. Depth of completed well 209 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from 0 ft. to 204 ft.
Welded [X] Liner installed [ ] Threaded [ ]
" Diam. from ft. to ft.
" Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ]
Manufacturer's Name Johnson
Type stainless steel Model No.
Diam. 6 Slot size 12 from 204 ft. to 209 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel
Gravel placed from ft. to ft.

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

(7) PUMP: Manufacturer's Name Goulds
Type: submersible 10EJ H.P. 1

(8) WATER LEVELS: Land-surface elevation above mean sea level 320 ft.
Static level 189 ft. below top of well Date 4/26/89
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 17 gal./min. with 2 ft. drawdown after 2 hrs.
Airlift gal./min. with stem set at ft. for hrs.
Artesian flow g.p.m. Date
Temperature of water 50 Was a chemical analysis made? Yes [ ] No [X]

(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
Brown silty sand & gravel	0	7
Silt bound sand "brown"	7	70
Grey silt	70	73
Brown sand	73	75
Grey silt	75	95
Brown silt	95	106
Grey silty sand	106	109
Grey silty sand & gravel	109	119
Grey cemented sand, hardpan	119	148
Grey silt	148	154
Blue gravelly till	154	177
Brown gravelly till	177	197
Blue sand & gravel -little water	197	199
Blue gravelly till	199	204.6
Sand & gravel H20	204.6	209

RECEIVED JUN 16 1989 DEPARTMENT OF ECOLOGY NORTHWEST REGION

Work started 4/17/89, 19. Completed 4/26/89, 19

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 Gresham Well DRilling (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 3105 N.W. Lakeness Rd., Poulsbo 98370

(Signed) [signature] (WELL DRILLER) License No. 0761

Contractor's Registration No. GRESHWD206NF Date 5/10/89, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10/87) -1329- 3

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

ENTERED

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. W053478
Unique Well I.D. # ACW003
Water Right Permit No.

(1) OWNER: Name WILSON, MAUREEN Address 10695 N.E. BYRON DR. BAINBRIDGE IS., WA 98110-

(2) LOCATION OF WELL: County KITSAP - SW 1/4 SE 1/4 Sec 23 T 25 N., R 2E WM
(2a) STREET ADDRESS OF WELL (or nearest address) SAME AS ABOVE, BAINBRIDGE IS 25-2E-23 Q03

(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 130 ft. Depth of completed well 130 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 125.6 ft.
WELDED " 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 HOUSTON
Type STAINLESS Model No.
Diam. 5 slot size 12 from 125 ft. to 130 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 STA-RITE
Type SUBMERSIBLE H.P. 3/4

(8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.
Static level 64.9 ft. below top of well Date 09/24/97
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

(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 GRAVELLY SAND & CLAY	0	40
GREY CLAY	40	45
GREY CLAY & GRAVEL	45	120
GREY COARSE SAND GRAVEL & WATER	120	130
	130	

RECEIVED
DEC 7 1999
NWRO-WR
DEPT OF ECOLOGY

25/23-23Q

Work started 09/23/97 Completed 09/24/97

(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 15 gal/min. w/ stem set at 125 ft. for .25 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? YES

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

ADDRESS 18365 DIAMOND DRIVE NE

Donald D. Duckworth

Contractor's Registration No. DUCKWPW148CJ Date 09/25/97

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 25N2E 26F#2

Water Right Permit No.

(1) OWNER: Name ROBERT L. RAUSCH Address 737 FERNCLIFF AVE.

(2) LOCATION OF WELL: County KITSAP SE ¼ NW ¼ Sec 26 T. 25 N., R. 2E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 737 FERNCLIFF AVE NE. BAINBRIDGE IS. 98110

(3) PROPOSED USE: [X] Domestic [ ] Irrigation [ ] DeWater Industrial [ ] Test Well [ ] Municipal [ ] Other [ ]

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

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 135 feet. Depth of completed well 135 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 124 ft.
Welded [X] " Diam. from ft. to ft.
Liner installed [ ] Threaded [ ] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ]
Manufacturer's Name JOHNSON
Type STAINLESS Model No.
Diam. Slot size 12 SLOT from 5 ft. to ft.
Diam. 5 Slot size 121 from 125 ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Berkley
Type: SUB H.P. ½

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 108 ft. below top of well Date 10-28-88
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 [X] No [ ] If yes, by whom? Driller
Yield: 6 gal./min. with 15 ft. drawdown after 4 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 5 gal./min. with 12 ft. drawdown after 4 hrs.
Airtest gal./min. with stem set at ft. for hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes [ ] No [X]

(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
SAND - BROWN	0	12
CLAY - BROWN	12	23
CLAY - BLUE	23	68
CLAY & GRAVEL BRITTLE - BLUE	68	80
COMPACT SAND & GRAVEL GREY	80	119
WATER SAND - GREY	119	125
CLAY - BLUE	125	

RECEIVED
NOV 22 1988
DEPARTMENT OF ECOLOGY
NORTHWEST REGION

Work started 10-14, 19 88 Completed 10-28, 19 88

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 McCOY DRILLING & WELL DEVELOPMENT CO. (TYPE OR PRINT)
Address 9070 N.E. SPARGUR LOOP RD. BAINBRIDGE IS., WA. 98110

(Signed) [signature] (WELL DRILLER) License No. 0294

Contractor's Registration No. MCCOYDW137QB Date 10/28/88, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

25N2E-26F#2

ECY 050-1-20 (10/87) -1329- 3

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 25N2E 33B02
Permit No. ....

(1) OWNER: Name Bucklin Address

(2) LOCATION OF WELL: County Kitsap ~~SE~~ NW ¼ NE ¼ Sec. 33 T. 25 N., R. 2E W.M.
...ing 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 115 ft. Depth of completed well 115 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 110 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 - Super
Manufacturer's Name
Type Telescoping Model No.
Diam. 6x5 Slot size 4 from 108 ft. to 115 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 + Native 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 50 ft. below top of well Date 6-10-79
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 12 gal./min. with 40 ft. drawdown after 4 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
Top Soil	0	2
Sand Brown	2	6
Sandy Clay w/ Gravel Brown	6	17
Sand - Brown	17	60
Clay - Brown	60	69
Clay - Sandy - Brown	69	74
Clay - Silty - Brown	74	81
Clay - Tan -	81	82
Silt - Clay filled Gray	82	100
Sand - Gray - fine (H2O)	100	115
Clay - Gray	115	

RECEIVED AUG 26 1980 DEPT. OF ECOLOGY

Work started 6-5, 19 79 Completed 6-10, 19 79

25/2E-33B2

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 Puget Sound Well Drilling
(Person, firm, or corporation) (Type or print)

Address 18365 Dimmond Drive N.E. Poulsbo, Wash. 98370

[Signed] Richard L. Lanning
(Well Driller)

License No. 1022 Date 6-13, 19 79

(USE ADDITIONAL SHEETS IF NECESSARY)

SLA

25N2E 33C

No log available for
Bainbridge Island Landfill

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

25/02-35J03
Application No.

WATER WELL REPORT
STATE OF WASHINGTON

25/25/35/J

Permit No. G1-00315P

(1) OWNER: Name GRECCO UTILITIES Address Bainbridge Island, Wa. 98110

(2) LOCATION OF WELL: County Kitsap (Trust K. Bolitt) NE SE Sec. 36 T. 25 N., R. 2E 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) 3
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 160 ft. Depth of completed well 160 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8" Diam. from 0 ft. to 160 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 Johnson
Type Stainless Steel Model No.
Diam. 8" Slot size 12 from 150 ft. to 160 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? 23 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 Flint and Walling
Type: Submersible H.P. 3

(8) WATER LEVELS: Land-surface elevation above mean sea level 149 ft.
Static level 120 ft. below top of well Date 9-74
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? Driller
Yield: 33 gal./min. with 14'6" ft. drawdown after 7 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
(Recovery 2½ minutes)					

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
Top Soil	0	2
Hardpan	2	23
Brown Sandy Clay	23	124
Blue Hardpan	124	130
Sand and Water	130	160

Work started 8-25, 1974 Completed 9-4, 1974

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 Burt Well Drilling (Person, firm, or corporation) (Type or print)

Address Route 1, Box 283 Poulsbo, Wa. 9837

[Signed] Merle Burt (Well Driller)

License No. 223-02-6084 Date 12-4, 1975

DJ 12/10/75

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

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

26N/02E-28J02

26/1 - 23 N

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

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No

Permit No.

(1) OWNER: Name LEE GRANT Address AGATE PASS

(2) LOCATION OF WELL: County KITSAP LOT A of SW ¼ of SW ¼ Sec. 28 T. 26 N., R. 02E 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 ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☒ Driven ☒ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 174 ft. Depth of completed well 174 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 170 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 JOHNSON

Type TELESCOPE Model No.

Diam. 6 Slot size 12 from 160 ft. to 174 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? 20 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 FLINT-WALLING

Type: SUBMERSIBLE H.P. ½

(8) WATER LEVELS: Land-surface elevation above mean sea level ? ft.

Static level 126' ft. below top of well Date 3/6/78

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? BACH

Yield: 4 gal./min. with 30 ft. drawdown after 4 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 3 gal./min. with 40 ft. drawdown after 1 hrs.

Artesian flow g.p.m. Date 3/6/78

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
SANDY HARDPAN	0	18
BLUE CLAY	18	60
BRN CLAY	60	65
BLUE CLAY	65	100
SANDY CLAY	100	122
SAND	122	123
SANDY-SILTY CLAY	123	135
BRN. CLAY	135	169
SAND - WATER	169	174

Work started 3/27, 1978 Completed 3/6, 1978

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 Jim Bach Drilling Co. (Person, firm, or corporation) (Type or print)

Address P.O. Box 10452 Bainbridge

[Signed] Jim Bach (Well Driller)

License No. 21 Date 3/6, 1978

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

Fay Bainbridge State Park
26N/02E-35G02

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

WELL LOG

Appli. 8268

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Kitsap

Area

Map

¼ ¼ sec. 35 T. 26 N., R. 2 E. x W.

Diagram of Section

File number 26N 2E 35G2

Drilling Co. Bert A. Strom

Address

Method of Drilling . Date Feb. 8, 1955

Owner State Parks and Recreation Comm.

Address P. O. Box 1128, Olympia, Wash.

Land surface, datum ft. above below

SWL: 85' Date , 19 Dims: 10" x 92'

Correlation	Material	From (feet)	To (feet)
	Domestic supply for park purposes.		
	(Fay Bainbridge State Park)		
	Bail test approximately 40 gpm		
	It is to be noted that between 0 and 90' the		
	driller encountered practically nothing but		
	blue clay with several small stratas of		
	water in it.		
	90 to 92 gravel strata		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet .. of .. sheets

26N2E 35G02
Fay Bainbridge State Park

25N/02E/21G03
25/02-21B

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

FORMER ISLAND CENTER TW

KAID WATER WELL REPORT

25/02/21A STATE OF WASHINGTON

Application No. .....

Permit No. 61 20804 P

(1) OWNER: Name KITSAP COUNTY PUD #1 Address .....

(2) LOCATION OF WELL: County KITSAP NW ¼ NE ¼ Sec. 21 T. 25 N., R. 2E 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) ISLAND CENTER #1

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

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 1300 ft. Depth of completed well 402 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8" Diam. from 0 ft. to 383 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 JOHNSON
Type SS V-SLOT Model No. .....
Diam. 8 T Slot size 10-25 from 363 ft. to 393 ft.
Diam. 8 T Slot size 40-70 from 393 ft. to 398 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 210 ft.
Static level 198.4 ft. below top of well Date 4/25/75
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? R&N
Yield: 100 gal./min. with 77 ft. drawdown after 4 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.
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
ORIGINALLY DRILLED TO 300 BY CABLE TOOL		
DEEPENED BY ROTARY TO 1300		
LATER REAMED TO 8" and CASING ADVANCED FROM 300 TO 402 BY CABLE TOOL		
GENERAL LOG		
Brn silt & Fine sand	0	113
Sand, gravel, clay	113	148
Clay, peat, some gvl	148	206
Sand and gravel	310	434
Clays - glaciolacustrine	434	646
Gravel, snd, clay - marine shells common	646	828
Dark gray shaly clay	828	1300
CABLE TOOL BY STORY & ARMSTRONG		
ROTARY BY SOIL SAMPLING SERVICE		

Work started ..., 19... Completed 4/25, 1974

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 ROBINSON & NOBLE
(Person, firm, or corporation) (Type or print)

Address .....

[Signed] [signature]
(Well Driller)

License No. ... Date ..., 19...

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

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

25N/02E-34C03

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON 25/2-34C

Application No. 51-24249

Permit No.

(1) OWNER: Name Sanderson Address

(2) LOCATION OF WELL: County Kitsap — NE ¼ NW ¼ Sec. 34 T. 25 N., R. 2E 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 149 ft. Depth of completed well 149 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 149 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 Johnson
Type Stainless Steel Model No.
Diam. 6" Slot size #12 from 138 ft. to 149 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? 22 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 ft.
Static level 32 ft. below top of well Date 2-10
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: 67 gal./min. with 52 ft. drawdown after 6 hrs.
" 67 " " "
" " " "

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 65 gal./min. with 50 ft. drawdown after 6 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
Top Soil	0	3
Sandy Hardpan	3	9
Silty Clay	9	30
" "	30	110
Silty Sandy Clay	110	130
Coarse Blue Sand & Water	130	134
Blue Cemented Sand & Gravel	134	140
Blue Coarse Sand & Water	140	149
Blue Sand w/clay	149	

Work started 2-3, 1983 Completed 2-10, 1983

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 Burt Well Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address 19782 N.E. Lincoln Rd. Poulsbo Wa. 98370

[Signed] George D. Burt (Well Driller)

License No. CC48 Date 2-11, 1983

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

25N2E - 27E21

No log available for
Head of the Bay Well #1

25N/02E-27E15

WELL LOG REPORT FOR: HEAD OF THE BAY WELL 1A?

Start Card No:		**USGS Site ID:**	
DOE Site ID:	AAC860	**Internal Project N**	
Local Name:	CITY OF BAINBRI	**Local Number:**	25N/02E-27E15
Water Right Permit:		**Parcel ID:**	27250220382006

OWNER:

Owner Name:

Address: **City, State Zip:** ,

LOCATION:

County: KITSAP **Q/Q1:** **Q/Q2:** **T:** **R:** **M:** **S:**

Well Address: **City, State Zip:** ,

PROPOSED USE:

Proposed Use: **ProposedType:**

TYPE OF WORK:

Type Of Work: **Drilling Method:**

Drilling Contractor: GRESHAM WELL

DIMENSIONS:

Diameter Of Well: 12 **Well Depth Drilled:** 144

Well Depth Completed: 144

CONSTRUCTION DETAILS:

Casing Information:

Perforations:

Gravel Packed:

Screens:

Screen Man:	Screen Type:	Model Num:	Diam:	Slot Size:	From:	To:
UNKNOWN	SS		6	0.012	122	132

Seals:

GEO LOG:

Material:	From:	To:
BROWN SILTY SAND	0	6
PEATY SILT	6	8
BROWN SAND AND GRAVEL WITH	8	25
BROWN TO BLUE SANDY SILT	25	44
SANDY SILT	44	46
FINE TO MEDIUM, SILTY,GRAVELLY	46	78
GRAY SILTY CLAY	78	104
GRAY SILTY CLAY WITH WATER BE	104	120
FINE TO VERY FINE, SLIGHTLY TO	120	137
VERY SILTY, VERY FINE SAND	137	141
SANDY SILT	141	144
SILTY CLAY	144	144.01

PUMP:

Pump Man: **Pump Type:** **Pump Model No:**

WATER LEVELS:

Elevation: 20.00

Water Level: **WL Date:**

Art Press: **Art Press Date:** **Art Control:**

WELL TESTS:

Well Test Yields:

Well Test Recoveries:

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. _____

25N2E 27E15

Water Right Permit No. _____

Head of Elm Bay Well 1A?

(1) OWNER: Name City of Winslow Address 625 Winslow Way E., Winslow, 98110

(2) LOCATION OF WELL: County Kitsap SW ¼ NW ¼ Sec. 27 T. 25 N., R. 2E W.M. E

(2a) STREET ADDDRESS OF WELL (or nearest address) N.E. Wyatt Ave. & Bucklin Hill Road

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

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

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 144 feet. Depth of completed well 144 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 8 " Diam. from 0 ft. to 130 ft.
Welded ☒ " Diam. from ft. to ft.
Liner installed ☐
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 Johnson
Type stainless steel Model No. _____
Diam. 7 Slot size 12 from 122 ft. to 132 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? 81 ft.
Material used in seal Cement & 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 None
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level 15 ft.
Static level 0 ft. below top of well Date 2/4/88
Artesian pressure 11.5 lbs. per square inch Date 2/4/88
Artesian water is controlled by cap (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? Driller
Yield: 150 gal./min. with 79.9" ft. drawdown after 4 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
45 sec.	40'				
2 min.	flowing				

Date of test 2/4/88
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water 50 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
Brown silty sand	0	6
Peat & silt	6	8
Brown gravelly sand	8	15
Brown sand & gravel	15	25
Blue to brown sandy siltw/gravel	25	44
Sandy silt	44	46
Fine silty gravelly sand H20	46	78
Gray silty clay	78	112
Silty clay w/sand layers	112	115
Very silty fine sand	115	118
Sandy silt	118	120
Fine to very fine silty to slightly silty pumaceous sand - H20	120	137
Very fine silty sand	137	141
Silty clay	141	144

Work started 1/18/88, 19. Completed 2/4/88, 19.

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 Gresham Well Drilling (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 3105 N.W. Lakeness Rd., Poulsbo983

(Signed) [signature] (WELL DRILLER) License No. 0761

Contractor's Registration No. GRESHWD206NR Date 3/7/88, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

25N/02E-27E16

WELL LOG REPORT FOR: HEAD OF THE BAY WELL 2

Start Card No: **USGS Site ID:**

DOE Site ID: AAC870 **Internal Project N**

Local Name: CITY OF BAINBRI **Local Number:** 25N/02E-27E16

Water Right Permit: **Parcel ID:** 27250220382006

OWNER:

Owner Name: TOWN OF WINSLOW

Address: **City, State Zip:** WINSLOW, WA

LOCATION:

County: KITSAP **Q/Q1:** **Q/Q2:** **T:** **R:** **M:** **S:**

Well Address: **City, State Zip:** ,

PROPOSED USE:

Proposed Use: **ProposedType:**

TYPE OF WORK:

Type Of Work: **Drilling Method:**

Drilling Contractor: STORY & ARMST

DIMENSIONS:

Diameter Of Well: 12 **Well Depth Drilled:** 144

Well Depth Completed: 144

GEO LOG:

Material:	From:	To:
SAND	0	14
SAND, GRAVEL, SOME CLAY	14	31
SAND, GRAVEL, WATER-BEARING	31	41
SAND, GRAVEL SOME CLAY	41	61
CLAY, GRAY	61	87
CLAY, GRAY, THIN SEAMS OF SAN	87	116
SILT, BROWN	116	119
SAND, MEDIUM, WATER WATER	119	130
SILT, BROWN (NOT BOTTOMED)	130	144

CONSTRUCTION DETAILS:

Casing Information:

Casing Type:	Diam:	From:	To:
	12	0	85

Perforations:

Gravel Packed:

Gravel Size:	From:	To:
#3 SAND	85	118

Screens:

Screen Man:	Screen Type:	Model Num:	Diam:	Slot Size:	From:	To:
COOK	SS		6	0.04	120	130

Seals:

PUMP:

Pump Man: **Pump Type:** **Pump Model No:**

WATER LEVELS:

Elevation: 20.00

Water Level: **WL Date:**

Art Press: **Art Press Date:** **Art Control:**

WELL TESTS:

Well Test Yields:

Well Test Recoveries:

25N2E 27E 17,18,19,&20

No logs available for
Head of the Bay Wells 3,4,5,&6

25N/02E-34F06
25/02-34K

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No
Permit No

(1) OWNER: Name PORT BLAKELY TREE FARMS Address 830 LOGAN BLDG., SEATTLE 98101

(2) LOCATION OF WELL: County KITSAP SW-NW SE NW Sec. 34 T. 25 N., R. 2E W.M.
Bearing and distance from section or subdivision corner

RECEIVED
DEPT OF ECOLOGY

(3) PROPOSED USE: Domestic [ ] Industrial [ ] Municipal [X]
Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one) OLD MILL RD #2
New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [X] Driven [ ]
Reconditioned [ ] Rotary [ ] Jetted [ ]

(5) DIMENSIONS: Diameter of well 12 inches.
Drilled 160 ft. Depth of completed well 149 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 12 " Diam. from 0 ft. to 125 ft.
Threaded [ ] 8 " Diam. from 0 ft. to 125 ft.
Welded [ ] 6 " Diam. from 136 ft. to 149 ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ]
Manufacturer's Name JOHNSON
Type SS Model No
Diam. 6 PS Slot size 30 from 125 ft. to 136 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [X] No [ ] Size of gravel #8 SAND
Gravel placed from 149 ft. to 90 ft.

Surface seal: Yes [X] No [ ] To what depth? 20 ft.
Material used in seal CEMENT/BENTONITE
Did any strata contain unusable water? Yes [ ] No [X]
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 130± ft.
Static level 93.4 ft below ~~top of well~~ LS Date 11/23/87
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 [X] No [ ] If yes, by whom? R&N
Yield 26 gal./min. with 15.6 ft. drawdown after 24 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
ON FILE R&N					

CALC T = 12,500
S = 1.7 × 10⁻⁴

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 [X] 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
TILL		35
BLUE-GRAY SANDY CLAY	35	56
" " PEBBLY SILT	56	60
" " SANDY SILT, PEBBLY LAYERS	60	118
SANDY SILT	118	125
FINE-MEDIUM SAND w/ PUMICE & WOOD NOTED	125	~~138~~ 133
SAME w/ LAYERS OF BRN SILT	~~138~~ 133	138
GRAY SILT w/ SAND SEAMS	138	160

LOG BY
ROBINSON & NOBLE, INC
12/14/87

Work started 10/27, 1987. Completed 11/24, 1987

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 Burt Well Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address 19782 N.E. Lincoln Rd. Poulsbo, Wa 98370

[Signed] George Burt (Well Driller)

License No. CC48 Date 12-16, 1987

(USE ADDITIONAL SHEETS IF NECESSARY)

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

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 25N2E 14A03
Permit No. ....

(1) OWNER: Name MESSENGER HOUSE CARE CENTER Address 10811 Mainstreet Rd Bainbridge Is 98110

(2) LOCATION OF WELL: County Kitsap SE¼ NE¼ NE¼ Sec. 14 T. 25 N., R. 2E 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 160 ft. Depth of completed well 160 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 140 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 Cook
Type STAINLESS Model No...
Diam. 5 Slot size 8 from 140 ft. to 145 ft.
Diam. 5 Slot size 6 from 145 ft. to 155 ft.

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

Surface seal: Yes ☒ No ☐ To what depth? 20 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 Weitrol
Type: Cast Iron Single H.P. 1½

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ... ft.
Static level 27 ft. below top of well Date 7-16-85
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? DRILLER
Yield: 25 gal./min. with 14 ft. drawdown after 4 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 10 gal./min. with 6 ft. drawdown after 4 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
Sand - Brown	0	6
Clay Round Gravel - Brown	6	65
Clay + Sand - Brown	65	96
Clay + Gravel Brown	96	100
Fine Water Sand - Brown	100	157
Clay - Blue	157	

Work started 7-5, 19 85 Completed 7-16, 19 85

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 McCoy Drilling + Well Dev. Co. (Person, firm, or corporation) (Type or print)

Address 9070 Sunnyside Lp Rd Bainbridge

[Signed] Mark McCoy (Well Driller)

License No. 1328 Date 7-16

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

85-1-14A

25N/02E-09H01

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No
Permit No

(1) OWNER: Name North Bainbridge Water Co. Address P.O. Box 4766 Rolling Bay 98061

(2) LOCATION OF WELL: County Kitsap — SW ¼ NE ¼ Sec 9 T. 25 N., R. 2E W.M.
Bearing and distance from section or subdivision corner NB#1

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one) #3
New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [X] Driven [ ]
Reconditioned [ ] Rotary [ ] Jetted [ ]

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 105 ft. Depth of completed well 105 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from 0 ft. to 105 ft.
Threaded [ ] " Diam. from ft. to ft.
Welded [X] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
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 [X] No [ ]
Manufacturer's Name Johnson
Type Stainless steel Model No
Diam. 8 Slot size 25 from 97 ft. to 105 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 20 ft.
Material used in seal bentonite
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name None
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 420 ft.
Static level 22.4" ft. below top of well Date 2/17/86
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 [X] No [ ] If yes, by whom? Driller
Yield: 167 gal./min. with 37.5" ft. drawdown after 4 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 60 gal./min. with 13.8" ft. drawdown after 2 hrs.
Artesian flow g.p.m. Date
Temperature of water 50 Was a chemical analysis made? Yes [ ] No [X]

(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
Overburden	0	2
Brown gravelly hardpan	2	15
Green gravelly hardpan	15	18
Brown gravelly hardpan	18	33
Sand & gravel - H20	33	41
Brown cemented gravel	41	46
Blue clay	46	60
Sand & gravel - H20	60	62
Hard packed gravel	62	62.5
Sand & gravel - H20	62.5	70
Hard packed sand & gravel	70	72
Sand & gravel - H20	72	92
Blue clay	92	97
Sand & gravel - H20	97	105

(old #3 was abandoned)

DEPARTMENT OF ECOLOGY NORTHWEST REGION

Work started 2/7, 19 86. Completed 2/24, 19 86

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 Gresham Well Drilling (Person, firm, or corporation) (Type or print)

Address 3105 N.W. Lakeness Rd. Poulsbo 98370

[Signed] Craig A. Gresham (Well Driller)

License No. 0761 Date 3/7, 19 86

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

25N/02E-09K02

25/02-09K

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name Bob Rodal Address .....

(2) LOCATION OF WELL: County Kitsap — NW ¼ SE ¼ Sec. 9 T. 25 N., R. 2 E W.M.

Bearing and distance from section or subdivision corner WELL 4 25/2E-9Ka

(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 8 inches.
Drilled 200 ft. Depth of completed well 118 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8" Diam. from 0 ft. to 118 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 Johnson
Type Stainless Steel Model No.
Diam. 8" Slot size #20 from 103 ft. to 118 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? 22 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 ≈105 ft.
Static level 83.1 ft. below top of well Date 8-15-79
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? Burt Well
Yield: gal./min. with ft. drawdown after hrs.

" 100	" 25	" 4	"
"	"	"	"

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
SEE A.I.W. DATA					

Date of test 8/15/79
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
Gravel with Water	0	69
Blue Hardpan	69	107
Gravel and Water	107	117
Blue Clay	117	200

RECEIVED
NOV 8 1979
DEPARTMENT OF ECOLOGY
SOUTHWEST REGIONAL OFFICE

RECEIVED
NOV 13 1979
DEPT. OF ECOLOGY

Work started 8-1, 1979 Completed 8-9, 1979

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 Burt Well Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address Route 1, Box 283 Poulsbo, WA 98370

[Signed] George D. Burt (Well Driller)

License No. 0048 Date 9-28, 1979

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

25N/02E-09G07

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. / /
Permit No. 61-24155

(1) OWNER: Name. North Bainbridge Water Co. Address P.O. Box 4766 Rolling Bay, Wa. 98061

(2) LOCATION OF WELL: County Kitsap — SW ¼ SE ¼ Sec. 9 T.25 N., R.2E W.M.

Bearing and distance from section or subdivision corner

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

(4) TYPE OF WORK: Owner's number of well (if more than one) #7
New well XX Method: Dug ☐ Bored ☐
Deepened ☐ Cable XX Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 149 ft Depth of completed well 149 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from 0 ft. to 149 ft
Threaded ☐ " Diam. from ft. to ft.
Welded XX " Diam. from ft. to ft.

Perforations: Yes ☐ No XX
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 XX No ☐
Manufacturer's Name Johnson
Type stainless steel Model No.
Diam. 8 Slot size 60 from 134 ft. to 149 ft.
Diam. Slot size from ft. to ft.

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

Surface seal: Yes XX No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No XX
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name None
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 320 ft.
Static level 62 ft. below top of well Date 11-4-82
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 XX No ☐ If yes, by whom? Driller
Yield: 349 gal./min. with 66 ft. drawdown after 10 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.
Artesian flow g.p.m. Date
Temperature of water 50 Was a chemical analysis made? Yes XX 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 gravelly clay	0	2
Blue clay	2	16
Brown gravelly hard pan	16	51
Sand & gravel h20	51	53
Brown gravelly hard pan	53	59
Sand & brown gravel H20	59	64
Blue clay	64	66
Blue sand & gravel H20	66	71
Brown clay	71.	71.6
Brown sand & gravel H20	71.6	97
Blue clay	97	105
Blue sand & gravel H20	105	112
Blue clay	112	116
Blue sand & gravel	116	133
Blue clay	133	133.6
Blue sand & gravel	133.6	149.0

Work started 7-29 1982 Completed 11-4 1982

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 Gresham Well Drilling (Person, firm, or corporation) (Type or print)
Address 3105 NW Lakeness Rd. Poulsbo 98370
[Signed] [signature] (Well Driller)
License No. 0761 Date Feb. 2 1983

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050 1-20

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