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May 23, 2017
Project No. 170017H001

Lakeside Industries, Inc.
6505 226th Place SE, Suite 200
Issaquah, Washington 98027

Attention: Ms. Karen Deal

Subject: Critical Area Assessment
Maple Valley Asphalt Plant
18825 SE Renton-Maple Valley Road
Renton, Washington

Dear Ms. Deal:

As requested, Associated Earth Sciences, Inc. (AESI) is pleased to provide this letter-report containing our assessment of the geologic hazard areas for the subject site. This critical area assessment was performed as a requirement by King County Department of Permitting and Environmental Review (KCDER) for the proposed environmental remediation efforts and future development of the site.

Written authorization to proceed with this study was granted by your January 16, 2017 authorization of our proposal dated January 13, 2017. Our study was accomplished in general accordance with our proposal. Our scope of work included a review of readily available information including in-house resources, municipal records, geologic maps, and historical aerial photography. Our onsite assessment was limited to a visual reconnaissance-level survey, and no subsurface explorations were completed under the current scope of work.

This letter-report has been prepared for the exclusive use of Lakeside Industries, Inc. and their agents, for specific application to this project. Within the limitations of scope, schedule, and budget, our services have been performed in accordance with generally accepted engineering

geology practices in effect in this area at the time our letter-report was prepared. No other warranty, express or implied, is made. It must be understood that no recommendations or engineering design can yield a guarantee of stable slopes. Our observations, findings, and opinions are a means to identify and reduce the inherent risks to the owner.

The location of the site is shown on Figure 1, and the various key features discussed below in this letter-report are shown on the attached "Conceptual Site Plan" (Figure 2).

SITE DESCRIPTION

The subject property is a rectangular-shaped, 25.39-acre-sized lot located at 18825 SE Renton-Maple Valley Road along the south side of the Renton-Maple Valley Highway, opposite the Cedar River, to the east of Renton, Washington. The lot is bordered to the west, south, and east by undeveloped lots. An existing oversized garage/storage building is located within the southwest portion of the property. There is also a mobile office onsite near the center of the property. Steep, undeveloped north-facing slopes up to approximately 320 feet tall with gradients of between 20 and 75 percent are located within the southern portion of the property and extend up beyond the property line to the south. The topography within the remainder of the property, is relatively level with gravel surfacing. A soil stockpile, of on-site origin, is located on the east end of the property. A small, east-flowing drainage (Stream B) travels along the base of the slope and feeds the wetlands in this area. A second drainage channel (Stream A) travels down the slope and deposits into Stream B as shown on Figure 2.

PROJECT DESCRIPTION

The previous activities on the site have led to contamination of the soil and ground water. The first proposed activity on the property includes remediation of the site by removing the contaminated soil from the site. Once the site has been cleaned up, our understanding is the lower portion of the site will be developed into an asphalt plant. The asphalt plant will consist of drive lanes, aggregate stockpiles, aboveground storage tanks, mixing and crushing machinery, and a small office building. Based on conversations with Lakeside Industries, Inc. the proposed development for the site includes asphaltic concrete surfacing of the entire lower region of the site. They plan to utilize secondary containment for all their aboveground tanks and installation of oil-water separators with their stormwater system. The attached "Conceptual Site Plan" (Figure 2) shows the proposed development, identifies the observed streams onsite and shows the wetlands buffer zones as established by previous study.

LITERATURE REVIEW

Aerial Image Review

AESI reviewed topographic and other pertinent information contained at the King County iMAP website[1]. AESI reviewed aerial photographs of the site and surrounding area available at the iMAP website dating from 1936 to present and a 1990 aerial photograph on Google Earth. Of the images reviewed, no definitive indications of recent large-scale landslides were noted on the property.

LiDAR (Light Distance and Ranging)

As part of our critical areas assessment, we reviewed LiDAR (Light Distance and Ranging) imagery of the site and vicinity. LiDAR provides high resolution topographic aerial images of the ground surface. The LiDAR imagery can detect large-scale geomorphic features, such as landslides, even in heavily vegetated areas like the subject site. We observed bowl-shaped, or arcuate features within the sloping area of the southern portion of the property. These features can be indicative of ground water discharge and/or evidence of small-scale landslides since the last glaciation period. There was likely deposition of a fan at the toe of slope from the erosion and sediment transport of material derived from the bowl-shaped geomorphic features. However, evidence of a fan has likely been obscured by site grading activities. The course of Stream A appears to have been modified by berming to create a drainage channel to direct flow in Stream A to the western margin of the site.

Geologic Maps

Based on review of the published geologic map titled *Surficial Geologic Map of the Maple Valley Quadrangle, King County, Washington* by D.B. Booth and others, dated 1995 (Booth et al., 1995), the steep slopes located within the southern portions of the site are underlain by glacially consolidated Vashon-age glacial till, Vashon advance outwash, and pre-Vashon, undivided glacial and non-glacial deposits. Per the referenced geologic map, the older pre-Vashon sediments generally consist of dense to very dense till, sand and gravel with minor silt, clay, and peat. Vashon advance outwash consisting primarily of sand and gravel with variable amounts of silt are shown on the map in the upper to mid-slope region immediately south of the property boundary. A small area of Vashon advance outwash is mapped onsite near the southeastern project boundary. The younger higher elevation Vashon-age glacial till sediments mantle the upland areas upslope of the site, and generally consist of an unsorted mixture of clay, silt, sand, and gravel, deposited directly by the advancing Vashon-age glacier. The low-lying areas of the site and vicinity extending from the base of the steep slopes north to

[1] King County iMAP (www.kingcounty.gov/services/gis/Maps/imap.aspx)

and beyond the site boundary are mapped as Quaternary alluvium. These deposits are described as loose, stratified to massively bedded fluvial silt, sand, and gravel. Holocene mass wasting deposits are mapped on the slope in the southern portion of the site. The mass wasting deposits are most likely deposited on the site by small landslides or sediment transfer from the southern drainage channels. Figure 3 shows geology of the site and surrounding area, adapted from Booth et al., 1995.

Past Reports

AESI was provided a Phase I Environmental Site Assessment Report (ESA) from Farallon Consulting (Farallon) dated April 19, 2016. The report discusses the historical use of the site and the recognized environmental conditions (RECs) identified onsite through review of historical documents and a site reconnaissance. We were also provided a letter from Farallon dated September 1, 2016 which depicts the discovery of an environmental release onsite and the planned independent cleanup of petroleum hydrocarbon constituents. Associated with this work we were provided copies of seven monitoring well logs attached as Appendix A. Upon receiving a grading permit from King County, Lakeside Industries, Inc. plans to excavate and remove the contaminated soil from the site.

GEOLOGIC RECONNAISSNCE

A geologic reconnaissance of the property was conducted by an experienced AESI engineering geologist on January 23, 2017.

The predominant geomorphic features of the site consist of an imported fill pad overlying alluvial soils on which the existing development and proposed new development are situated. The site is bordered by steep slopes to the south and southeast as discussed previously. AESI observed an old road located on the east side of the site. The road climbs up from the main pad at an approximate elevation of 180 feet to a relatively level bench at an elevation of 220 feet.

On the west edge of the bench, we observed Stream A as labeled on Figure 2. This drainage channel was shallow and as it extended below the bench is curved to the west. The channel is connected to Stream B at the base of the slope and acts as a feeder for the various wetland areas onsite. We observed that the bowl-shaped or arcuate features observed on the LiDAR imaging were predominantly dry during our visit with the exception of Streams A and B.

The steep slopes located on the southern portion of the property, except for the bench, contain a moderately dense vegetative growth consisting of young to mature, mostly straight-trunked

evergreen trees, deciduous trees, and a moderately well-developed undergrowth of native shrubs and blackberry brambles.

During our geologic reconnaissance of the site and vicinity, we did not observe tension cracks or other indications of recent slope instability. The slope that extends up to the southeast does not appear to be forming the same arcuate features as are observed to the south. This slope is densely vegetated and did not contain evidence of instability or erosion at the time of our site visit.

ENVIRONMENTALLY CRITICAL AREAS

Erosion Hazard

King County Code (KCC) 21A.06.415 defines an erosion hazard area *as an area underlain by soils that is subject to severe erosion when disturbed. These soils include, but are not limited to, those classified as having a severe to very severe erosion hazard according to the United States Department of Agriculture Soil Conservation Service, the 1990 Snoqualmie Pass Area Soil Survey, the 1973 King County Soils Survey or any subsequent revisions or addition by or to these sources such as any occurrence of River Wash ("Rh") or Coastal Beaches ("Cb") and any of the following when they occur on slopes inclined at fifteen percent or more:*

A. The Alderwood gravely sandy loam ("AgD");
B. The Alderwood and Kitsap soils ("AkF");
C. The Beausite gravely sandy loam ("BeD" and "BeF");
D. The Kitsap silt loam ("KpD");
E. The Ovall gravely loam ("OvD" and "OvF");
F. The Ragnar fine sandy loam ("RaD"); and
G. The Ragnar-Indianola Association ("RdE").

Per the United States Department of Agriculture's Natural Resource Conservation Service Web Soil Survey (Web Soil Survey)[2], the area of the existing and proposed development, the northern portion of the property, is underlain by Urban Land. The southern slopes portion of the parcel is underlain by mostly Alderwood and Kitsap soils on 25 to 70 percent slopes. A small portion of the site, in the southeast corner of the property, is underlain by Alderwood gravelly sandy loam on 8 to 15 percent slopes.

[2] Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at https://websoilsurvey.sc.egov.usda.gov/. Accessed April 30, 2017.

The slopes on the southern portion of the property have a high risk of erosion and classifies as an erosion hazard area. In AESI's opinion, the proposed environmental remediation efforts and future development, within the northern portion of the site, has a low risk of erosion and should not increase the erosion of the nearby slopes. At the time of our site visit flow in Stream A was fully contained within the drainage channel. However, it should be noted that future changes in the condition of Stream A drainage such as landslides in the steep slope areas adjacent to the stream or increased erosion of the banks of the stream and increased sediment deposition within the channel may cause the drainage course to change. Mitigation to protect structures may be necessary to account for changes to the drainage course over time.

Landslide Hazard

Per KCC 21A.06.680, a landslide hazard area is *an area subject to severe risk of landslide, such as:*

A. An area with a combination of:
   1. Slopes steeper than fifteen percent of inclination;
   2. Impermeable soils, such as silt and clay, frequently interbedded with granular soils, such as sand and gravel; and
   3. Springs or ground water seepage;

B. An area that has shown movement during the Holocene epoch, which is from ten thousand years ago to the present, or that is underlain by mass wastage debris from that epoch;

C. Any area potentially unstable as a result of rapid stream incision, stream bank erosion or undercutting by wave action;

D. An area that shows evidence of or is at risk from snow avalanches;

E. An area located on an alluvial fan, presently or potentially subject to inundation by debris flows or deposition of stream-transported sediments.

Based on review of the existing literature, and observations of site conditions during our recent geologic reconnaissance of the property, the risk of damage to the existing and proposed new structures by deep-seated landslide activity is low in AESI's opinion. The steep slopes located south of the site are underlain by Holocene-age mass wasting deposits. It appears the mass wasting deposits were derived from underlying dense to very dense glacially consolidated, generally coarse-grained sediment based on published geologic mapping. It should be noted that the upper several feet of these dense sediments can be loosened by precipitation, freeze/thaw, animal burrowing, and foot traffic. The loosened soils are subject to mass wasting events including relatively shallow landslides. Loosened soils may also migrate down the steep slope via gravity forming an accumulation of colluvium at the slope toe. Shallow slides usually occur during seasonally wetter periods of the year.

In our opinion, the southern slopes on the property classify as a landslide hazard area due to the steepness, height, continued erosion, and shallow slides evidenced by the geomorphology. There is no evidence on the LiDAR imagery of landslide-related runout across the modern floodplain surface. Based on the distance of the proposed development from the southern slopes, and the presence of the deep drainages at the base of these slopes creating catchments for any potential small-scale slide debris, the risk of damage to the proposed development by shallow slides is low, in AESI's opinion. Figure 2 shows an 80-foot wetland buffer zone extending onto the site from the base of the slopes. In our opinion, an additional 20-foot building setback for a combined buffer/building setback distance of 100 feet is appropriate to account for runout from the identified landslide hazard or debris flow hazards related to Stream A.

Steep Slope

According to KCC 21A.06.1230, a steep slope hazard area is defined as *an area on a slope of forty percent inclination or more within a vertical elevation change of at least ten feet.*
The southern portion of the site classifies as a steep slope hazard area since slope gradients exceed 40 percent and the slope height exceeds 300 feet.

In our opinion, the asphalt plant can be located as planned with the following project design adjustments implemented. The proposed control house and other major processing elements are located more than 100 feet from the toe of the steep slopes along the southern portion of the property and therefore no adjustment is necessary. However, based on Figure 2, the proposed Reclaimed Asphalt Pavement (RAP) stockpiles and crusher are presently proposed to be located near the toe of the slope to the southeast. Based on our observations in the field, this slope is not eroding at the same rate as the slopes to the south and has denser vegetation. We recommend a minimum setback and buffer of 30 feet from the toe of the southeastern slope to allow for catchment of the weathered zone deposits that may release over time. Alternatively, the setback and buffer may be reduced to 15 feet in combination with a low wall constructed at the toe of slope to provide debris catchment. The wall should be no taller than 4 feet in height and can be constructed as a cast-in-place concrete wall or a large segmental concrete block wall (Ultra Blocks or Redi-Rock for example). The wall is intended to provide catchment for loose surface soils. The area behind the wall should be periodically cleared of accumulated soils.

Coal Mine Hazard

According to KCC 21A.06.200 a coal mine hazard area is defined as *an area underlain or directly affected by operative or abandoned subsurface coal mine workings.*

As part of our study, we conducted a review of historic coal mining maps on file with the Washington State Department of Natural Resources (DNR). Review of the readily available

maps and the data indicates that the entrance of the New Black Diamond Mine also known as the Indian Mine owned and operated by the Pacific Coast Coal Company was located on this property. The maps indicate an opening located near the base of the southern slope at the west end. The maps show the mine entrance extending into the hillside and dipping to the southwest.

Based on the review of the readily available information the workings appear to extend offsite to the southwest. Therefore, it is AESI's opinion that the proposed remediation and eventual development will not be underlain by the abandoned subsurface coal mine workings. The mine shaft maps that we reviewed only showed workings beneath the slope of the property, therefore development of the lower regions of the site should be unaffected.

Seismic Hazard

Seismic hazards are defined by KCC 21A.06.1045 as *an area subject to severe risk of earthquake damage from seismically induced settlement or lateral spreading as a result of soil liquefaction in an area underlain by cohesionless soils of low density and usually in association with a shallow ground water table.*

Liquefaction is a process through which unconsolidated, saturated, granular soil loses strength as a result of vibrations, such as those which occur during a seismic event. Liquefaction can result in deformation of the sediment and settlement of overlying structures. Areas most susceptible to liquefaction include those areas underlain by non-cohesive silt and sand with low relative densities, accompanied by a shallow water table. The site is mapped by King County as a moderate to high liquefaction hazard potential. The geologic map of the area indicates alluvial soils which support the County's designation.

AESI has reviewed the available subsurface information from the environmental investigations onsite which described the soil encountered as being cohesionless. However, there was limited information regarding the density except from 12.2 to 19 feet on the MW-1 log, and 15.5 to 20 feet on the MW-5 log. In both instances, they noted a loose consistency. Among all the monitoring wells installed on-site ground water elevations were recorded ranging from 2 to 10½ feet below the ground surface. Based on the reviewed information it is AESI's opinion that the site classifies as a seismic hazard area, and further study should be done to evaluate the probability and magnitude of seismically induced settlement during a design-level earthquake event.

The project site is located within a zone of shallow bedrock referred to as the Seattle Uplift. The Seattle Uplift is bounded on the south by the Tacoma Fault Zone (TFZ) located approximately 12 miles southwest of the site, and on the north by the main strand of the

Seattle Fault Zone (SFZ) located approximately 8 miles north of the site. Recent studies of the SFZ and the TFZ have concluded that certain fault splays within these fault zones are active (evidence of seismic activity in the last 11,000 years). Based on the distance of the TFZ from the site, it is AESI's opinion that the risk of damage from surface fault rupture along any of the known fault splays associated with this fault is low.

The Seattle Fault is understood to consist of a fault zone typically approximately 1 to 2 miles wide, with displacement distributed across multiple fault "strands" within the fault zone. The SFZ extends west to east from approximately Bremerton to Fall City. Displacements within the SFZ occur along discreet strands within the relatively large fault zone. Current research indicates that the Seattle Fault has locally offset Quaternary sediments, which indicates that within the geologic time frame the fault zone is active or potentially active; an active fault is one that has ruptured in the last 11,000 years and a potentially active fault is one that has ruptured in the Quaternary (last 2.1 million years). Recent studies have focused on fault splays within the northern portion of the SFZ, referred to as the "deformation front," where evidence of recent faulting is more prevalent. The southernmost known fault splay within the SFZ is mapped approximately 2 miles northeast of the site. This fault splay is inferred based on geophysical studies. Other specific data pertaining to this fault are limited. Based on AESI's review of published data pertaining to the SFZ, and the distance of the SFZ from the site, we conclude that the risk of surface fault rupture related to known fault splays within the SFZ is low.

Review of the *Geologic Map of the Tacoma 1:100,000-scale Quadrangle, Washington* dated November 2015 and compiled by Eric J. Schuster and others, indicates an east-west trending, north-dipping normal fault is mapped to the east of the site. The fault reportedly displaces early Eocene to early Oligocene (~33 million years old) Renton Formation bedrock. The fault is shown as concealed beneath Vashon-age lodgement till east and west of its mapped location. Data pertaining to this fault are limited. We have not identified any other specific information regarding this fault during our research of published geologic references. Given the fault is not shown to have displaced Vashon lodgement till dating around 15,000 years old, it is AESI's opinion that the fault is not considered active and presents a low risk of damage to the site due to fault rupture.

CRITICAL AQUIFER RECHARGE AREAS (21A.24.316)

Critical Aquifer Recharge Areas (CARAs) are defined by KCC 21A.06.253 as "*an area designated on the critical aquifer recharge area map adopted by KCC 21A.24.311 that has a high susceptibility to ground water contamination or an area of medium susceptibility to ground water contamination that is located within a sole source aquifer or within an area approved in*

accordance with Chapter 246-290 WAC as a wellhead protection area for a municipal or district drinking water system, or an area over a sole source aquifer and located on an island surrounded by saltwater. Susceptibility to ground water contamination occurs where there is a combination of permeable soils, permeable subsurface geology and ground water close to the ground surface." Based on the critical areas maps published by the County and confirmed by your pre-app meeting documentation, this site is considered a Type I and II zone for contamination potential. The northwest portion of the site also appears to be within the 5-year time of travel wellhead protection zone for a Group A well field.

This letter-report provides information to address the following topics, which satisfy the reporting needs and critical aquifer recharge area development standards for this site, in our opinion.

- Available information regarding geologic and hydrogeologic characteristics of the site, including the surface location of all critical aquifer recharge areas located onsite or immediately adjacent to the site, and permeability of the unsaturated zone.
- Ground water depth, flow direction, and gradient based on available information.
- Currently available data on wells and springs within 1,300 feet of the project area.
- Locations of other critical areas, including surface waters, within 1,300 feet of the project site.
- Available historic water quality data for the area to be affected by the proposed activity.
- Best management practices (BMPs) proposed to be utilized.

Physical Setting and Topography

Physical Setting

The surface location of critical aquifer recharge areas located onsite and in the vicinity of the site are shown on Figure 4. The site lies within designated CARA Types I and II. In addition the Cedar River lies approximately 150 feet to the north of the northern property boundary, across SE Renton-Maple Valley Road. Delineated wetlands and streams, and their associated buffers are present to the west, south, and east of the development area.

Topography/Geology

As described in the "Literature Review" section of this letter-report, the steep slopes located within the southern portions of the site are underlain by mass wasting deposits, glacially consolidated Vashon-age glacial till, Vashon advance outwash, and pre-Vashon, undivided glacial and non-glacial deposits. The low-lying areas of the site and vicinity extending from the base of the steep slopes north to and beyond the site boundary is mapped as Quaternary alluvium which is described as loose, stratified to massively bedded fluvial silt, sand, and gravel. The lithologic descriptions contained in the boring logs completed by Farallon (Appendix A) are in general agreement with geologic mapping (Booth et al., 1995).

Ground Water Depth, Flow Direction, and Gradient

Farallon's monitoring well logs and Groundwater Contours Map (Appendix A) depict a generally northeast-trending ground water flow direction, with a gradient of approximately 0.06 to 0.08 feet vertical, per foot horizontal (ft/ft). Ground water was encountered during drilling at depths of approximately 9 to 10 feet below ground surface (bgs) in monitoring wells MW-1 through MW-6, and at 2 feet bgs in MW-7. The sand and gravel deposits described in Farallon's logs are interpreted to represent Holocene younger alluvium (Qyal) described in Booth et al., 1995. The Qyal sediments are described as moderately sorted deposits of cobble gravel, pebbly sand, and sandy silt. In bulk, these deposits would have moderate to high permeabilities, depending in part on the degree of sorting and silt content.

Ground Water Wells and Use

Available well and water system data was obtained from online databases at the Washington State Department of Health (DOH) and the Washington State Department of Ecology (Ecology). Three Group B water systems or their assigned time of travel are located within a 1,320-foot (¼ mile) radius of the site, including the on-site Group B system. The site is also within the 5-year time of travel radius for a Group A well. Records for one domestic well within the ¼-mile radius were obtained from the Ecology water well database. Each water system or well is discussed below. Water system records and well logs are included in Appendix B.

Group B Water Systems

Water System No. AB892 - This water system is on the subject property, identified as Goodnight Properties Water System. The well is identified with Ecology well tag no. AFJ613. The well is 50 feet deep, and at time of drilling, had a static water level of 2 feet bgs. The well is completed with a 4-inch liner, and is screened from 30 to 50 feet deep. The system is listed as having a capacity of 20 gallons per minute (gpm), with one approved connection.

Water System No. 52451 - This water system is located west of the subject property with the system name identified as Muralt, Ted, owned by Richardo Ramacho. The water system is located at 17823 Renton-Maple Valley Highway. A small portion of the water system's assigned time of travel radius intersects the ¼-mile radius from the subject site. This water system has two approved connections. The well log indicates the well was installed in 1980 to a total depth of 22 feet bgs, with an open bottom completion. The static water level shown on the well log is 3 feet bgs. The well location shown on Figure 4 is at the parcel level.

Water System No. 38128 - There is no well address, well tag, or parcel number listed for this water system. The well depth is listed as 11 feet, and it is located in the SE ¼, SE ¼, Township 23N, Range 6E, which is east of the subject property. The system owner name is Kenny's Service Station, listed at 18015 Maple Valley Highway, which is located to the west of the subject property. The system is listed as having eight active connections and no approved connections.

Group A Water System

Water System No. 41150 - The subject property lies within the jurisdictional 5-year time of travel zone of Group A water system 41150. This water system is owned by King County Water District No. 90, and is served by a well field which includes three wells: Wojewodski Well 1, Well 2 APP301, and Well 3 BCS873. Well logs for Wells 2 and 3 are included in Appendix B. The well log for Well 1 was not available. The well field is located approximately ½ mile northwest, and on the other side of the Cedar River from the subject property. Water system 41150 is shown on Figure 4 in two locations. Based on available information, Wojewodski Well 1 is located to the southeast of Wells 2 and 3, at the location shown.

Domestic Well

Well No. 1556680 - The well log indicates the well is owned by Chuck Vowell on Parcel No. 1923069016, immediately adjacent to the subject property to the east at 15905 190th Avenue SE. The well is completed with an open bottom, at a depth of 75 feet bgs. Static water level was 55 feet bgs. The well log shows hardpan extending to a depth of 47 feet, under which is sand and gravel to a depth of 70 feet. The sand and gravel unit is underlain by sandstone at this depth. The well location on Figure 4 is shown to the parcel level but the exact location on the parcel is unknown.

Irrigation Well

Water System No. 38640 - DOH records indicate that Group B Water System 38640 is owned by King County Shop #2. As described in the paragraphs below, the well associated with this water

system has been reclassified as an irrigation well. No well address is provided, and no well log or Ecology well ID is provided in the DOH online database. The well depth is listed as 35 feet. The DOH describes five active connections and undetermined approved connections. The DOH location information for this well is limited to the quarter-quarter section.

The title report for the subject property included a covenant document entitled Declaration of Covenant to Acknowledge Use of a Well for Irrigation Purposes Only, and Not to be Connected to Potable Water Source or Used for Potable Water Source, dated June 18, 2009, with reference number 20090624001358. This document is included in Appendix B. The covenant declares that the well is to be utilized solely for irrigation purposes and is not to be connected to any potable water supplies. The well covenant document references the original King County Group B Water Use Agreement as document number 20051229000800. **The above-referenced covenant converts the Group B designation to an irrigation well.**

In our review of the Ecology and DOH well log databases, we did not find documentation of decommissioning of this well. The well is not being used by the owner and is not proposed to be used. The developer is unable to locate the wellhead onsite. The general area of where the well is described to be is covered with a gravel surface of unknown thickness. While the exact location of this well is not known, the location shown on Figure 4 is approximated from multiple years of aerial photographs, the ALTA survey provided by Lakeside Industries, Inc., and the location description contained in the above-referenced covenant document. We recommend that the well be properly decommissioned per KCC 21A.24.316 Critical aquifer recharge areas — development standards, section E: In any critical aquifer recharge area, the property owner shall properly decommission an abandoned well. Chapter 173-160 WAC: Minimum Standards for Construction and Maintenance of Wells reinforces the decommissioning standard and describes acceptable decommissioning methods.

Best Management Practices (BMPs) Proposed to be Utilized

The project proposes to continue operation of the existing Group B water system and construction of a new on-site sewage system to serve the proposed administrative office. In addition, the project proposes to pave the entire operational site with asphalt and to direct stormwater runoff to appropriately designed stormwater facilities for runoff treatment and control.

The proposed project will avoid significant adverse impacts to downgradient water resources by implementing required stormwater management controls. The proposed stormwater management controls are considered BMPs for keeping surface water flows at natural levels, maintaining ground water recharge, and mitigating water quality impacts to surface water and ground water in accordance with Chapter 173.200 and 173.201A WAC.

Stormwater from the project site will be treated and controlled as required by the 2016 *King County Surface Water Design Manual* (KCSWM), Ecology issued National Pollutant Discharge Elimination System (NPDES) Sand and Gravel General Permit (General Permit).

As required by the General Permit, a Storm Water Pollution Prevention Plan (SWPPP) will be prepared for the site to describe the BMPs that will be used to manage stormwater. The SWPPP will specify the operations, structural and management BMPs to be used at the site. The Permit also requires development of a Spill Plan to reduce the potential for operational or accidental release of pollutants to the surface water or shallow ground water. The plan must identify the materials of concern, spill prevention measures, and spill response procedures.

The proposed stormwater management systems and selected BMPs that will protect area ground water resources are further described below.

Water Quantity Considerations

The final stormwater drainage design will be prepared by Triad Associates and will include a Technical Information Report (TIR) addressing the Core and Special Requirements for the 2016 KCSWDM.

The project proposes to continue use of the existing on-site Group B water supply well. This well is located on the southwestern portion of the site (Figure 4) and is over 300 feet upgradient of the proposed stormwater detention pond, and will be located upgradient of the proposed on-site septic system (Figure 2). The proposed on-site septic system location is currently in design and is not shown on Figure 2.

Wetlands and stream drainages currently exist onsite and are shown on Figure 2. These surface water features are located in the undeveloped portions of the site predominately south of the proposed improvements. The surface water features will maintain buffers and remain undeveloped under the current proposal. These surface water features are hydrologically upgradient or crossgradient of the developed portion of the site and the proposed stormwater and on-site septic systems.

In AESI's opinion, if the improvement project follows the recommended BMPs for stormwater management and applicable regulations regarding the on-site septic system design while maintaining appropriate buffers to surface water features, ground water levels will not be adversely impacted by the improvement project.

Water Quality Considerations

This section provides an assessment of water quality considerations associated with the proposed improvement project. A more detailed assessment of water quality associated with the final stormwater drainage design will be prepared by Triad Associates and will be included in the TIR. Our assessment includes an evaluation of potential pollutants, fate and transport considerations, and mitigating measures that will be included in the proposed improvement project.

Pollutants generated during construction include suspended solids and trace petroleum hydrocarbons. The foundation for the administrative building has not been determined at this time but will be at grade. Construction materials will not adversely impact the ground water, in AESI's opinion.

Following construction, the primary source of pollutants include runoff from roadway/paved areas of the site and the proposed on-site septic system. Pavement runoff includes trace petroleum hydrocarbons and trace metals. An on-site septic system will serve the proposed administration building and will be designed in accordance with applicable KCC and DOH requirements and will be placed downgradient of all water supply wells. Nitrate impacts are the primary concern related to on-site septic systems.

General fate and transport for each of the pollutants identified above includes the following:

- Suspended solids generated during construction (including heavy metals in a particulate form) are generally removed by settling in a temporary detention facility consistent with the 2016 KCSWM and best management erosion control practices. After construction, stormwater runoff will be treated by a stormwater detention pond in accordance the 2016 KCSWM. Therefore, suspended solids generated during construction or in on-site stormwater will not be transported offsite.

  Heavy metals in the dissolved form will be treated by a stormwater detention pond (or temporary detention pond during construction) in accordance with the 2016 KCSWM. Therefore, heavy metals generated in on-site stormwater will not be transported offsite.

- Dilute concentrations of petroleum hydrocarbons (typical of roadway runoff) are readily degradable in the natural environment. The potential for petroleum hydrocarbons will be highest on the pavement surfaces of the parking areas and driveways. Water runoff from the pavements will be directed to the detention pond for treatment meeting the 2016 KCSWM.

- The on-site septic system will be designed in accordance with applicable regulations and maintain required buffers to water supply wells and surface water features and will therefore include BMPs to minimize nitrate impacts to the shallow ground water.

In addition to the Group B water system located onsite, there are two existing Group B water systems and one domestic well within 1,300 feet of the site that are used to supply drinking water (Figure 4). These wells are located upgradient or crossgradient of the proposed stormwater pond and the proposed on-site septic system. The water supply well information from DOH for these wells is presented in Appendix B. These wells should have been constructed according to Ecology well construction standards and as such include well seals to prevent local surface contamination of the sources.

Deleterious substances and hazardous materials must be identified as required by the General Permit. The project proposes to use aboveground storage tanks to store liquid and gaseous fuel, liquid asphalts, and asphalt cement at the site. Two 30,000-gallon heated asphalt cement storage tanks, one 10,000-gallon diesel tank, and one 10,000-gallon emulsified asphalt tank will be located on a concrete slab within a concrete wall enclosure for secondary containment. One 30,000-gallon propane tank will supply fuel to the proposed drum mix aggregate dryer burner.

Aboveground storage tanks in critical aquifer recharge areas are addressed in KCC Chapter 21A.24.316: *"Critical aquifer recharge areas - development standards. The following development standards apply to development proposals and alterations on sites containing critical aquifer recharge areas: A. Except as otherwise provided in subsection H. of this section, the following new development proposals and alterations are not allowed on a site located in a category I critical aquifer recharge area...8. Above-ground storage tanks for hazardous substances, as defined in chapter 70.105 RCW, unless protected with primary and secondary containment areas and a spill protection plan."*

The proposed aboveground storage tanks will be protected with primary and secondary containment areas in the form of concrete slab within a concrete wall enclosure. A spill prevention and response plan will be developed in accordance with the General Permit.

In AESI's opinion, if the improvement project follows the recommended BMPs provided in the 2016 KCSWDM and the General Permit including development of a SWPPP and a Spill Plan; provide primary and secondary containment areas and a spill protection plan for hazardous materials and aboveground storage tanks; then ground water quality will not be adversely impacted by the improvement project.

General Hazardous Material Storage and Spill Prevention

- Ensure all hazardous substances are properly labeled.
- Store, dispense, and/or use hazardous substances in a way that prevents releases.
- Provide secondary containment when storing hazardous substances in bulk quantities (approximately 55 gallons).
- Maintain good housekeeping practices for all chemical materials at the facility.
- Routine/Daily checks in the hazardous substance storage area to be performed by a future person onsite to be named at the commencement of work.
- Monthly inspections of the hazardous substance storage area, secondary containment, and annular space (interior cavity of double wall tank) on any aboveground storage tanks need to be logged in this plan.
- In general, most substances stored onsite will be minimal in size, such as 5-gallon gasoline cans. Large volume spills are not anticipated involving the work on this site.

Spill Containment

A Spill Plan will be prepared for the site in accordance with the General Permit. The Spill Plan will include emergency response procedures to reduce the potential for operational or accidental release of pollutants to the surface water or shallow ground water. Requirements and guidance for development of the Spill Plan are provided by Ecology.

- The general spill response procedure at this facility is to stop the source of the spill, contain any spilled material and clean up the spill in a timely manner to prevent accidental injury or other damage.
- Small spills will be contained by site personnel if they are able to do so without risking injury. Spill kits will be located onsite.

Emergency Procedures

- Immediately call **911** in the event of injury, fire or potential fire, or spill of a hazardous substance that gives rise to an emergency situation.
- Spill cleanup for large spills should be handled by the Spill Cleanup Contractor as specified in the Spill Plan.

Proposed Stormwater Quality Treatment Best Management Practices

In accordance with the 2016 KCSWM the project will require water quality treatment for pollution-generating surfaces. At the issuance of this letter-report, the design for the drainage and stormwater facility was in preliminary design. We understand stormwater collected from

pollution-generating surfaces will be conveyed to an on-site stormwater detention pond for treatment. The preliminary proposed design will include water quality treatment consistent with the 2016 KCSWM and the General Permit. It is our understanding that the plans will implement BMPs to meet water quality requirements.

Construction Erosion Hazard Best Management Practices

A properly developed, constructed, and maintained erosion control plan consistent with the 2016 KCSWM standards and best management erosion control practices will be required for the project. Care must be taken during construction not to contaminate the stormwater facilities with untreated construction stormwater and silt.

It is in our opinion that with the proper implementation of the temporary erosion and sediment control (TESC) plans and by field-adjusting appropriate mitigation elements (BMPs) throughout construction, as recommended by the erosion control inspector, the potential adverse impacts from erosion hazards on the project may be mitigated.

Description and Management of Deleterious Substances and Hazardous Materials

Any deleterious substances and hazardous materials that will be stored, handled, treated, used, produced, recycled, or disposed of onsite should be identified. And, if necessary, the assessment shall specify methods of storing and handling these substances and provide a Spill Plan. The identification of deleterious substances and hazardous materials, storage and handling and a Spill Plan is required as part of the Sand and Gravel General Permit.

CLOSURE

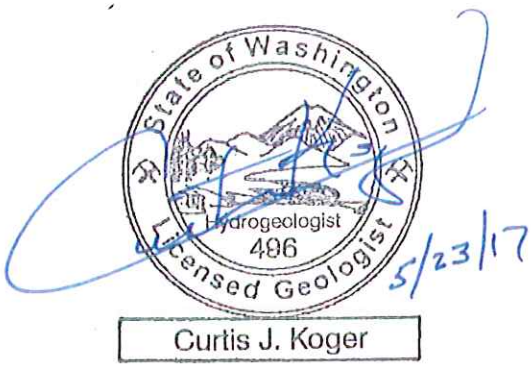
AESI has prepared this letter-report for the exclusive use of our client and their agents, for specific application to this project. Within the limitations of scope and schedule, our services have been performed in accordance with generally accepted local geotechnical and hydrogeological engineering practices in effect at the time our letter-report was prepared. No other warranty, express or implied, is made.

We appreciate the opportunity to be of service to you on this project. Should you have any questions regarding this letter-report or other geotechnical aspects of the site, please call at your earliest convenience.

Sincerely,
ASSOCIATED EARTH SCIENCES, INC.
Kirkland, Washington

Samuel G. Probert, P.E.
Project Geotechnical Engineer

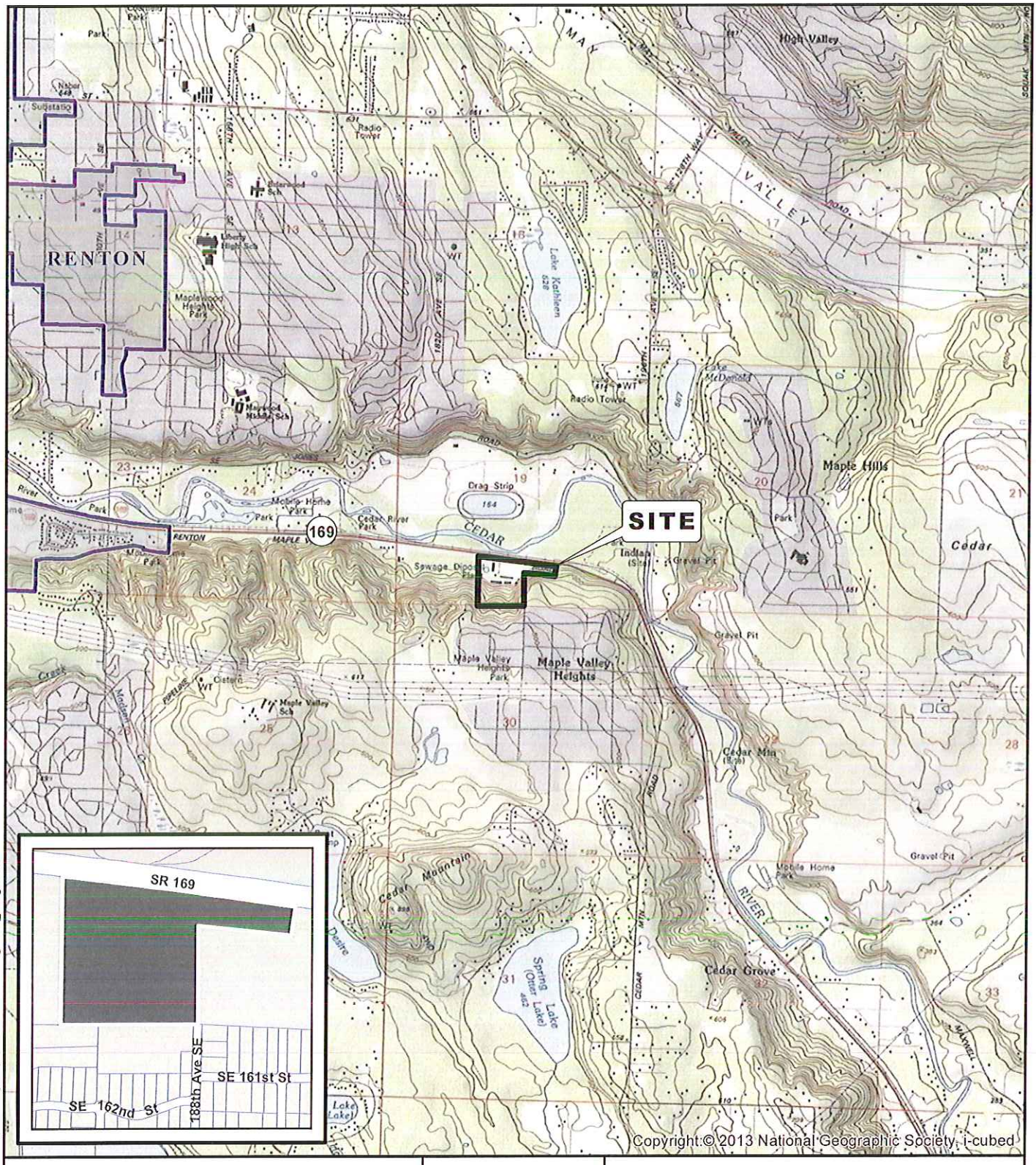
Matthew A. Miller, P.E.
Principal Engineer



Curtis J. Koger, L.G., L.E.G., L.Hg.
Senior Principal Geologist/Hydrogeologist

Attachments:

Figure 1.	Vicinity Map
Figure 2.	Conceptual Site Plan
Figure 3.	Geology Map
Figure 4.	Water Well Location Map
Appendix A.	Farallon Environmental Monitoring Well Logs and Groundwater Contour Map
Appendix B.	Water System Records and Ecology Well Logs



DATA SOURCES / REFERENCES:
USGS: 24K SERIES TOPOGRAPHIC MAPS
KING CO: STREETS, CITY LIMITS, PARCELS 02/17

LOCATIONS AND DISTANCES SHOWN ARE APPROXIMATE

N

0 1500 3000

FEET

NOTE: BLACK AND WHITE REPRODUCTION OF THIS COLOR ORIGINAL MAY REDUCE ITS EFFECTIVENESS AND LEAD TO INCORRECT INTERPRETATION

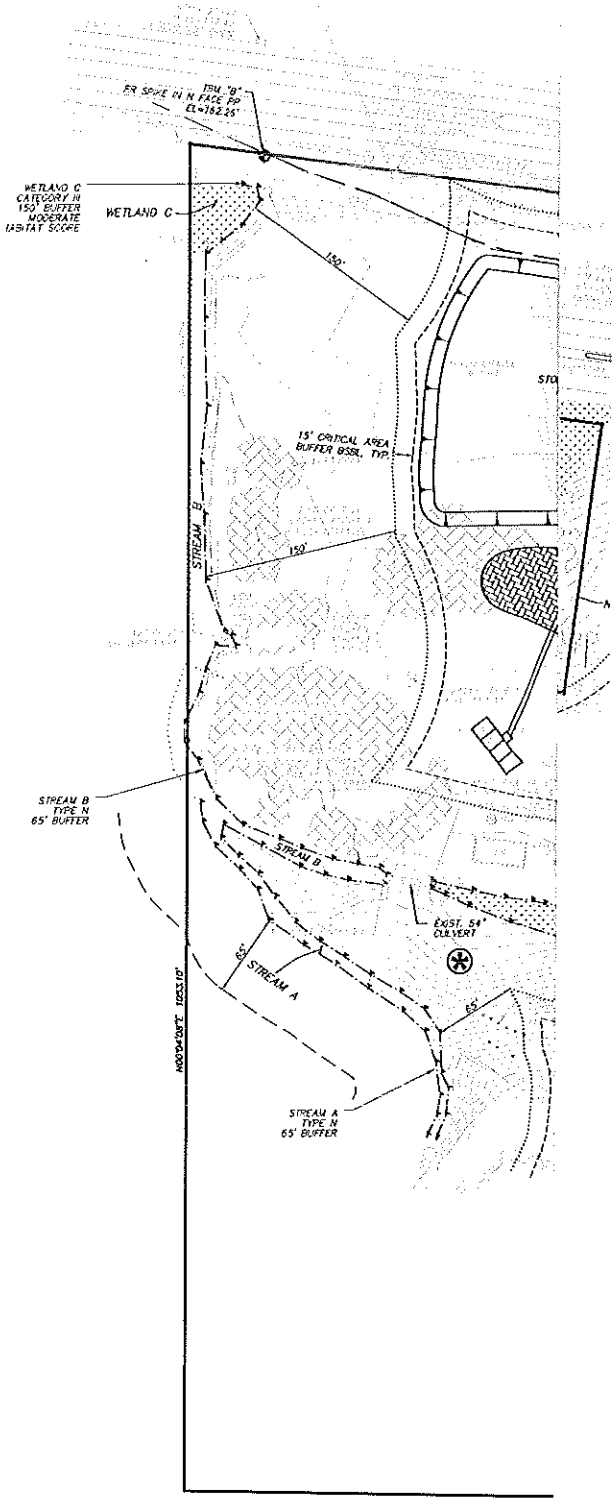
associated earth sciences incorporated

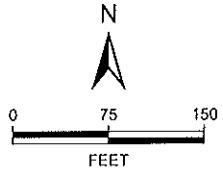
VICINITY MAP

MAPLE VALLEY ASPHALT PLANT
KING COUNTY, WASHINGTON

PROJ NO.	DATE:	FIGURE:
170017H001	5/17	1

Document Path: G:\GIS_Projects\aaY2017\170017 Maple Valley Asphalt\mxd\170017 Fig1 VM_King.mxd





LEGEND:

⊛ EXISTING GROUP B WELL

CONTOUR INTERVAL = UNKNOWN

NOTE: LOCATION AND DISTANCES SHOWN ARE APPROXIMATE.

NOTES:

1. BASE MAP REFERENCE: UNTITLED, UNDATED PLAN, RECEIVED FROM LAKESIDE INDUSTRIES, 4/5/17.

BLACK AND WHITE REPRODUCTION OF THIS COLOR ORIGINAL MAY REDUCE ITS EFFECTIVENESS AND LEAD TO INCORRECT INTERPRETATION.

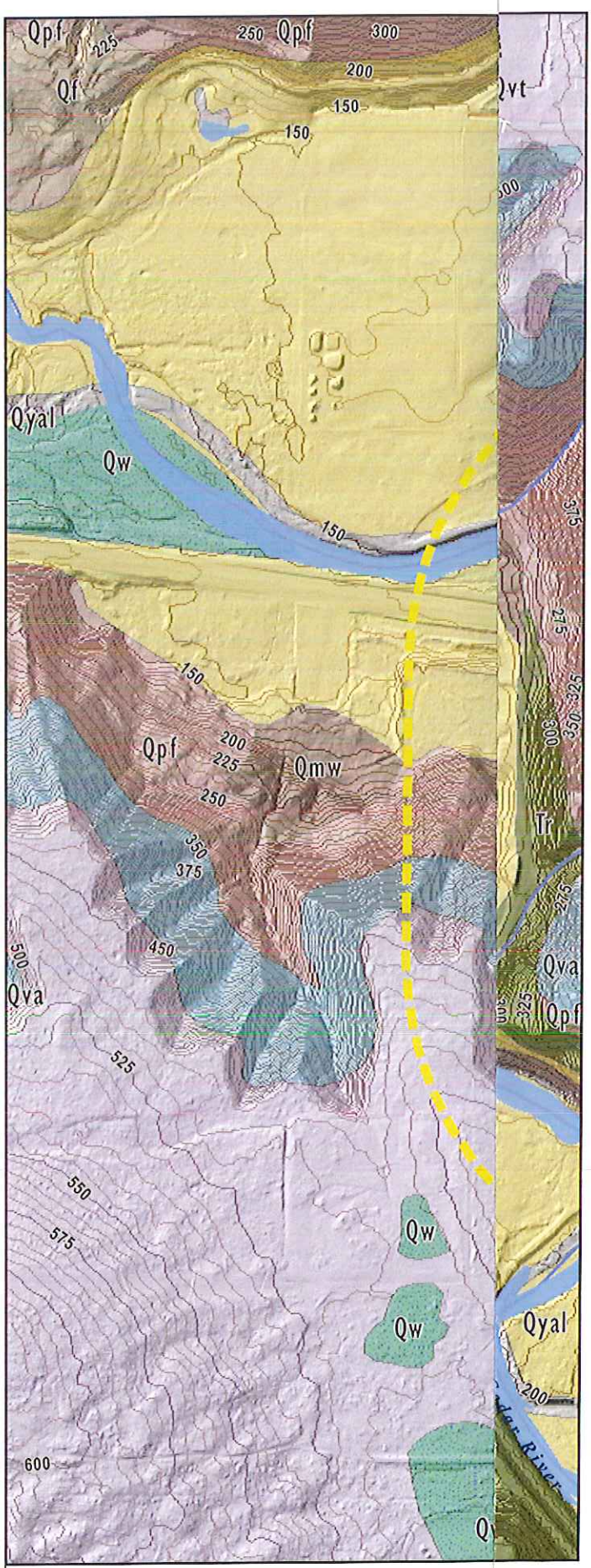
associated earth sciences incorporated

SITE AND EXPLORATION PLAN

MAPLE VALLEY ASPHALT PLANT
RENTON, WASHINGTON

PROJ NO.	DATE:	FIGURE:
170017H001	5/17	2

170017 Maple Valley Asphalt \ 170017h001 F2 Site-Expl.cdr



LEGEND:

- SITE
- 1/4 MILE SITE BUFFER
- m - MODIFIED LAND
- Qw - WETLAND DEPOSITS
- Qmw - MASS-WASTAGE
- Qf - ALLUVIAL FAN
- Qyal - YOUNGER ALLUVIUM
- Qvr(2) - VASHON RECESSIONAL OUTWASH
- Qvt - VASHON TILL
- Qva - VASHON ADVANCE OUTWASH
- Qpf - PRE-FRASER SEDIMENTARY
- Tr - RENTON FORMATION
- CONTOUR 25 FT
- CONTOUR 5 FT

DATA SOURCES / REFERENCES:
PSLC 2016 KING CO. DELIVERY 3 FLOWN 3/2/16 - 3/29/16
GRID CELL SIZE IS 3'.
WA STATE PLANE NORTH (FIPS 4601), NAD83(HARN)
NAVD88 GEOID03 (GEOID03), US SURVEY FEET.
KING CO: PARCELS, STREETS, HYDRO1/17
WADNR: GEOLOGY 24K 11/16 (USGS_MF-2297 BY D. BOOTH, 1995)

LOCATIONS AND DISTANCES SHOWN ARE APPROXIMATE

N

0 300 600
FEET

BLACK AND WHITE REPRODUCTION OF THIS COLOR ORIGINAL MAY REDUCE ITS EFFECTIVENESS AND LEAD TO INCORRECT INTERPRETATION

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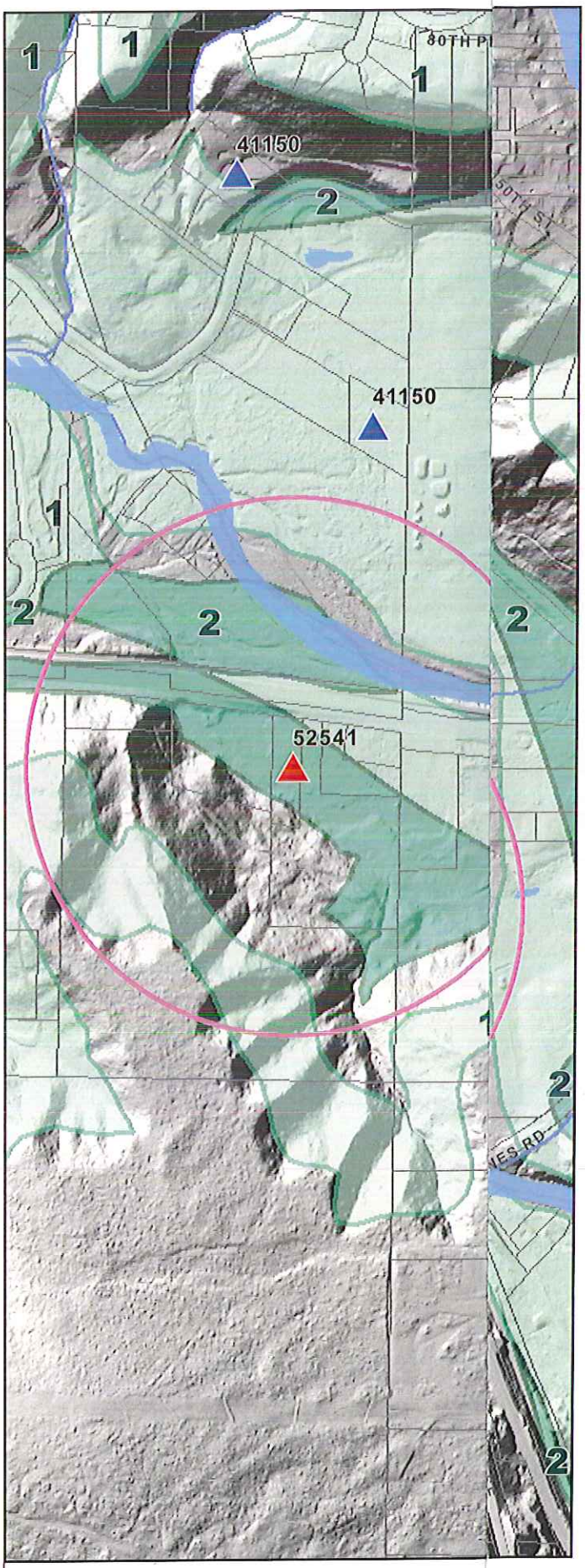
GEOLOGY MAP

MAPLE VALLEY ASPHALT PLANT
KING COUNTY, WASHINGTON

PROJ NO.	DATE:	FIGURE:
170017H001	5/17	3

Document Path: G:\GIS_Projects\aaY2017\170017 Maple Valley Asphalt\mxd\H001\170017 Geo_MapleValley.mxd



LEGEND:

- SITE
- GROUP A WELL
- GROUP B WELL
- DOMESTIC WELL
- IRRIGATION
- TIME OF TRAVEL ASSIGNED
- 1/4 MILE SITE BUFFER

WELLHEAD PROTECTION ZONE

- 1
- 2
- PARCEL

NOTE: ENTIRE SUBJECT PROPERTY IS WITHIN 5 YEAR TIME OF TRAVEL FOR GROUP A SYSTEM 41150

DATA SOURCES / REFERENCES:
PSLC 2016 KING CO. DELIVERY 3 FLOWN 3/2/16 - 3/29/16
GRID CELL SIZE IS 3'.
WA STATE PLANE NORTH (FIPS 4601), NAD83(HARN)
NAVD88 GEOID03 (GEOID03), US SURVEY FEET.
KING CO: PARCELS, STREETS, HYDRO, GWSOURCE 1/17
DOH: WELLS 10/16
DOE: WELLS 4/16

LOCATIONS AND DISTANCES SHOWN ARE APPROXIMATE

N

0 300 600
FEET

BLACK AND WHITE REPRODUCTION OF THIS COLOR ORIGINAL MAY REDUCE ITS EFFECTIVENESS AND LEAD TO INCORRECT INTERPRETATION

associated earth sciences incorporated

WATER WELL LOCATION MAP

MAPLE VALLEY ASPHALT PLANT
KING COUNTY, WASHINGTON

PROJ NO.	DATE:	FIGURE:
170017H001	5/17	4

Document Path: G:\GIS_Projects\aaY2017\170017 Maple Valley Asphalt\mxd\H001\170017 Wells_MapleValley.mxd

APPENDIX A

Farallon Environmental Monitoring Well Logs And Groundwater Contour Map

FARALLON CONSULTING

Log of Boring: MW-1

Client: Lakeside Industries
Project: Goodnight Property
Location: Renton, Washington
Farallon PN: 525-022
Logged By: Ken Scott

Date/Time Started:	4/25/16 @ 0930	**Sampler Type:**	2.5' Poly-sacs
Date/Time Completed:	4/25/16 @ 1030	**Drive Hammer (lbs.):**	Autohammer
Equipment:	Terra Sonic	**Depth of Water ATD (ft bgs):**	~10.0'
Drilling Company:	Holt Drilling	**Total Boring Depth (ft bgs):**	20.0'
Drilling Foreman:	Pete Rosenberg	**Total Well Depth (ft bgs):**	20.0'
Drilling Method:	Sonic		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-1.0': Silty SAND with gravel Fill (60% sand, 20% silt, 20% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM							Monument
		1.0-7.5': Silty SAND Fill (70% sand, 25% silt, 5% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM							Concrete; Bentonite Seal; Sand
5					100	NA	0.0	MW1-5.0 @ 940	X	
		7.5-12.2': Well-graded GRAVEL with sand (60% gravel, 35% sand, 5% silt), fine to coarse gravel, fine to coarse sand, brown, moist to wet @ ~10-feet bgs, no odor, no sheen. Subrounded gray gravel, some 3-inch subrounded gray cobbles.	GW							Stabilized water level; Water level
10					100	NA	0.0	MW1-10.0 @ 955	X	
		12.2-19.0': Silty SAND (80% sand, 20% silt), fine to medium sand, brown, wet, no odor, no sheen. Loose consistency, orange colored ferric-banding.	SM							Casing
15					100	NA	0.1	MW1-15.0 @ 1005	X	Screen
		19.0-19.8': SILT with sand (80% silt, 15% sand, 5% gravel), fine to medium sand, fine to coarse gravel, tan, wet, no odor, no sheen. Rounded black gravel.	ML							
20		19.8-20.0': Poorly graded SAND (90% sand, 5% silt, 5% gravel), fine to medium sand, fine to coarse gravel, tan, wet, no odor, no sheen. Rounded black gravel.	SP		100	NA	0.0	MW1-20.0 @ 1015		End cap

Well Construction Information

Monument Type:	Flush Mount	**Filter Pack:**	10/20 sand
Casing Diameter (inches):	2	**Surface Seal:**	Cement
Screen Slot Size (inches):	0.010	**Annular Seal:**	Bentonite
Screened Interval (ft bgs):	5 to 20'	**Boring Abandonment:**	NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: 1329373.32 E
Y: 170563.21 N

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FARALLON CONSULTING

Log of Boring: MW-2

Client: Lakeside Industries
Project: Goodnight Property
Location: Renton, Washington
Farallon PN: 525-022
Logged By: Ken Scott

Date/Time Started:	4/25/16 @ 1135	**Sampler Type:**	2.5' Poly-sacs
Date/Time Completed:	4/25/16 @ 1245	**Drive Hammer (lbs.):**	Autohammer
Equipment:	Terra Sonic	**Depth of Water ATD (ft bgs):**	~9.5'
Drilling Company:	Holt Drilling	**Total Boring Depth (ft bgs):**	20.0'
Drilling Foreman:	Pete Rosenberg	**Total Well Depth (ft bgs):**	20.0'
Drilling Method:	Sonic		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-1.5': Sandy SILT with gravel Fill (55% silt, 30% sand, 15% gravel), fine sand, fine to coarse gravel, brown, moist, no odor, no sheen.	ML							Monument
		1.5-2.5': Silty SAND Fill (70% sand, 25% silt, 5% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM							Concrete
		2.5-13.0': Well-graded GRAVEL with sand (55% gravel, 40% sand, 5% silt), fine to coarse gravel, fine to coarse sand, brown, moist to wet @ ~9.5-feet bgs, no odor, no sheen. Subrounded gray gravel, some 3 to 4-inch subrounded gray cobbles.	GW							Bentonite Seal
5					100	NA	0.1	MW2-5.0 @ 1145	X	Sand
										Stabilized water level
10					100	NA	0.1	MW2-10.0 @ 1200	X	Water level
		13.0-14.2': Silty SAND (80% sand, 15% silt, 5% gravel), fine to medium sand, fine to coarse gravel, tan, wet, no odor, no sheen.	SM							Casing
15		14.2-17.5': Silty SAND (80% sand, 20% silt), fine sand, dark gray, wet, no odor, no sheen.	SM		100	NA	0.0	MW2-15.0 @ 1215	X	Screen
		17.5-20.0': Silty SAND (85% sand, 15% silt), fine sand, dark gray, wet, no odor, no sheen.	SM							
20					100	NA	0.1	MW2-20.0 @ 1230		End cap

Well Construction Information

Monument Type:	Flush Mount	**Filter Pack:**	10/20 sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (inches):	2	**Surface Seal:**	Cement	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (inches):	0.010	**Annular Seal:**	Bentonite	**Surveyed Location:**	X: 1329301.96 E
Screened Interval (ft bgs):	5 to 20'	**Boring Abandonment:**	NA		Y: 170535.83 N

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FARALLON CONSULTING

Log of Boring: MW-3

Client: Lakeside Industries
Project: Goodnight Property
Location: Renton, Washington
Farallon PN: 525-022
Logged By: Ken Scott

Date/Time Started:	4/25/16 @ 1340	**Sampler Type:**	2.5' Poly-sacs
Date/Time Completed:	4/25/16 @ 1445	**Drive Hammer (lbs.):**	Autohammer
Equipment:	Terra Sonic	**Depth of Water ATD (ft bgs):**	~10.5'
Drilling Company:	Holt Drilling	**Total Boring Depth (ft bgs):**	20.0'
Drilling Foreman:	Pete Rosenberg	**Total Well Depth (ft bgs):**	20.0'
Drilling Method:	Sonic		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-2.5': Silty SAND with gravel Fill (60% sand, 20% silt, 20% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM							Monument; Concrete; Bentonite Seal; Sand
5		2.5-10.5': Well-graded GRAVEL with sand (60% gravel, 35% sand, 5% silt), fine to coarse gravel, fine to coarse sand, brown, moist, slight petroleum-like odor, no sheen. Subrounded green, gray, and black gravel, rounded 3 to 5-inch green, and gray cobbles.	GW		100	NA	0.1	MW3-5.0 @ 1350	X	Stabilized water level
10					100	NA	0.1	MW3-10.0 @ 1400	X	Water level; Casing
15		10.5-20.0': Silty SAND (80% sand, 15% silt, 5% gravel), fine to medium sand, fine to coarse gravel, dark gray, wet, no odor, no sheen. Mostly fine sand (~90%), subrounded 3 to 5-inch gray cobbles between 18 to 20-feet bgs.	SM		100	NA	0.0	MW3-15.0 @ 1415	X	Screen
20					100	NA	0.1	MW3-20.0 @ 1430		End cap

Well Construction Information

Monument Type:	Flush Mount	**Filter Pack:**	10/20 sand
Casing Diameter (inches):	2	**Surface Seal:**	Cement
Screen Slot Size (inches):	0.010	**Annular Seal:**	Bentonite
Screened Interval (ft bgs):	5 to 20'	**Boring Abandonment:**	NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: 1328945.56 E
Y: 170614.99 N

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FARALLON CONSULTING

Log of Boring: MW-4

Client: Lakeside Industries
Project: Goodnight Property
Location: Renton, Washington
Farallon PN: 525-022
Logged By: Ken Scott

Date/Time Started:	4/25/16 @ 1515	**Sampler Type:**	2.5' Poly-sacs
Date/Time Completed:	4/25/16 @ 1615	**Drive Hammer (lbs.):**	Autohammer
Equipment:	Terra Sonic	**Depth of Water ATD (ft bgs):**	~9.5'
Drilling Company:	Holt Drilling	**Total Boring Depth (ft bgs):**	20.0'
Drilling Foreman:	Pete Rosenberg	**Total Well Depth (ft bgs):**	20.0'
Drilling Method:	Sonic		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-2.5': Silty SAND with gravel Fill (60% sand, 25% silt, 15% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM							Monument
		2.5-4.1': Sandy SILT with gravel (50% silt, 35% sand, 15% gravel), fine to medium sand, fine to coarse gravel, dark brown, moist, no odor, no sheen.	ML							Concrete
		4.1-4.6': SILT (100% silt), dark gray, moist, no odor, no sheen.	ML							Bentonite Seal
5		4.6-9.5': Well-graded GRAVEL with sand (55% gravel, 40% sand, 5% silt), fine to coarse gravel, fine to coarse sand, brown, moist, no odor, no sheen. Subrounded gray gravel, and 3 to 4-inch subrounded gray cobbles.	GW		100	NA	0.0	MW4-5.0 @ 1525	X	Sand
										Stabilized water level
10		9.5-13.5': Silty SAND with gravel (50% sand, 20% silt, 30% gravel), fine to coarse sand, fine to coarse gravel, brown, wet, no odor, no sheen.	SM		100	NA	0.0	MW4-10.0 @ 1535	X	Water level
										Casing
15		13.5-17.5': Well-graded GRAVEL with sand (60% gravel, 35% sand, 5% silt), coarse gravel, fine to coarse sand, brown, wet, no odor, no sheen. Subrounded gray gravel, and 3 to 4-inch subrounded gray cobbles between 15 and 17-feet bgs.	GW		100	NA	0.1	MW4-15.0 @ 1545		Screen
		17.5-20.0': Silty SAND (80% sand, 20% silt), fine sand, dark gray, wet, no odor, no sheen.	SM							
20					100	NA	0.0	MW4-20.0 @ 1600		End cap

Well Construction Information

Monument Type:	Flush Mount	**Filter Pack:**	10/20 sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (inches):	2	**Surface Seal:**	Cement	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (inches):	0.010	**Annular Seal:**	Bentonite	**Surveyed Location:**	X: 1328916.58 E
Screened Interval (ft bgs):	5 to 20'	**Boring Abandonment:**	NA		Y: 170968.26 N

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FARALLON CONSULTING

Log of Boring: MW-5

Client: Lakeside Industries
Project: Goodnight Property
Location: Renton, Washington
Farallon PN: 525-022
Logged By: Ken Scott

Date/Time Started:	4/26/16 @ 830	**Sampler Type:**	2.5' Poly-sacs
Date/Time Completed:	4/26/16 @ 930	**Drive Hammer (lbs.):**	Autohammer
Equipment:	Terra Sonic	**Depth of Water ATD (ft bgs):**	~9.0'
Drilling Company:	Holt Drilling	**Total Boring Depth (ft bgs):**	20.0'
Drilling Foreman:	Pete Rosenberg	**Total Well Depth (ft bgs):**	20.0'
Drilling Method:	Sonic		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-3.6': Silty SAND with gravel Fill (60% sand, 25% silt, 15% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen. Subrounded gray gravel.	SM							Monument; Concrete; Bentonite Seal
5		3.6-11.5': Well-graded GRAVEL with sand (55% gravel, 40% sand, 5% silt), fine to coarse gravel, fine to coarse sand, brown, moist to wet @ ~9.0-feet bgs, no odor, no sheen. Subrounded gray gravel.	GW		100	NA	0.2	MW5-5.0 @ 840	X	Sand; Stabilized water level; Water level
10					100	NA	0.2	MW5-10.0 @ 850	X	
		11.5-14.5': Well-graded GRAVEL (90% gravel, 5% sand, 5% silt), fine to coarse gravel, fine to coarse sand, tan, wet, no odor, no sheen. Subrounded gray gravel, and 3 to 5-inch subrounded gray cobbles.	GW							Casing
15		14.5-15.5': Well-graded GRAVEL with sand (60% gravel, 35% sand, 5% silt), fine to coarse gravel, fine to coarse sand, brown, wet, no odor, no sheen. Subrounded gray gravel, and subrounded 3 to 4-inch gray cobbles.	GW		100	NA	0.2	MW5-15.0 @ 905		Screen
		15.5-20.0': Silty SAND (75% sand, 25% silt), fine to medium sand, brown, wet, no odor, no sheen. Loose consistency.	SM							
20					100	NA	0.1	MW5-20.0 @ 920		End cap

Well Construction Information

Monument Type:	Flush Mount	**Filter Pack:**	10/20 sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (inches):	2	**Surface Seal:**	Cement	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (inches):	0.010	**Annular Seal:**	Bentonite	**Surveyed Location:**	X: 1329303.03 E
Screened Interval (ft bgs):	5 to 20'	**Boring Abandonment:**	NA		Y: 170916.06 N

DRAFT - Issued for Client Review

FARALLON CONSULTING

Log of Boring: MW-6

Client: Lakeside Industries
Project: Goodnight Property
Location: Renton, Washington
Farallon PN: 525-022
Logged By: Ken Scott

Date/Time Started:	4/26/16 @ 950	**Sampler Type:**	2.5' Poly-sacs
Date/Time Completed:	4/26/16 @ 1050	**Drive Hammer (lbs.):**	Autohammer
Equipment:	Terra Sonic	**Depth of Water ATD (ft bgs):**	~10.0'
Drilling Company:	Holt Drilling	**Total Boring Depth (ft bgs):**	20.0'
Drilling Foreman:	Pete Rosenberg	**Total Well Depth (ft bgs):**	20.0'
Drilling Method:	Sonic		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-1.6': Silty SAND with gravel Fill (60% sand, 20% silt, 20% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen. Subrounded gray gravel.	SM						Monument; Concrete
		1.6-2.4': Sandy SILT (60% silt, 35% sand, 5% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen.	ML						Bentonite Seal
		2.4-8.5': Silty SAND (70% sand, 25% silt, 5% gravel), fine to medium sand, fine to coarse gravel, reddish brown, moist, no odor, no sheen.	SM	100	NA	0.1	MW6-5.0 @ 1000	X	Sand
5									
		8.5-10.5': Well-graded SAND (90% sand, 5% silt, 5% gravel), fine to coarse sand, fine to coarse gravel, reddish brown, moist to wet @ ~10-feet bgs, no odor, no sheen. Subrounded gray gravel.	SW	100	NA	0.1	MW6-10.0 @ 1015	X	Water level
10									
		10.5-20.0': Well-graded GRAVEL with sand (80% gravel, 15% sand, 5% silt), fine to coarse gravel, fine to coarse sand, greenish gray, wet, no odor, no sheen. Subrounded green, gray gravel, and subrounded 3 to 4-inch green, and gray cobbles.	GW						Casing
15				100	NA	0.0	MW6-15.0 @ 1025		Screen
20				100	NA	0.1	MW6-20.0 @ 1035		End cap

Well Construction Information

Monument Type:	Flush Mount	**Filter Pack:**	10/20 sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (inches):	2	**Surface Seal:**	Cement	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (inches):	0.010	**Annular Seal:**	Bentonite	**Surveyed Location:**	X: 1329078.79 E
Screened Interval (ft bgs):	5 to 20'	**Boring Abandonment:**	NA		Y: 170643.93 N

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FARALLON CONSULTING

Log of Boring: MW-7

Client: Lakeside Industries
Project: Goodnight Property
Location: Renton, Washington
Farallon PN: 525-022
Logged By: Ken Scott

Date/Time Started:	4/26/16 @ 1135	**Sampler Type:**	2.5' Poly-sacs
Date/Time Completed:	4/26/16 @ 1315	**Drive Hammer (lbs.):**	Autohammer
Equipment:	Terra Sonic	**Depth of Water ATD (ft bgs):**	~2.0'
Drilling Company:	Holt Drilling	**Total Boring Depth (ft bgs):**	20.0'
Drilling Foreman:	Pete Rosenberg	**Total Well Depth (ft bgs):**	18.5'
Drilling Method:	Sonic		

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-1.5': Silty SAND with gravel Fill (60% sand, 20% silt, 20% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen. Subrounded to subangular gray gravel.	SM							Monument
		1.5-6.5': Well-graded SAND Fill (85% sand, 10% silt, 5% gravel), fine to coarse sand, fine to coarse gravel, brown, moist to wet @ ~2-feet bgs, no odor, no sheen.	SW							Concrete Bentonite Water Level Sand
5					100	NA	0.0	MW7-5.0 @ 1145	X	
		6.5-12.5': Well-graded GRAVEL with sand (80% gravel, 15% sand, 5% silt), fine to coarse gravel, fine to coarse sand, reddish brown, wet, no odor, no sheen. Subrounded tan, green, gray gravel, and subrounded 3 to 4-inch tan, green, and gray cobbles. Observed red brick debris~7-feet bgs.	GW							
10					100	NA	0.0	MW7-10.0 @ 1155	X	
		12.5-14.6': Well-graded GRAVEL with sand (65% gravel, 30% sand, 5% silt), fine to coarse gravel, fine to coarse sand, reddish brown, wet, no odor, no sheen. Subrounded black, green, gray gravel, and subrounded 3 to 5-inch black, green, and gray cobbles.	GW							Casing
15		14.6-20.0': Silty SAND (80% sand, 15% silt, 5% gravel), fine to medium sand, fine gravel, dark gray, wet, no odor, no sheen.	SM		100	NA	0.0	MW7-15.0 @ 1205		Screen
20					100	NA	0.1	MW7-20.0 @ 1215		End cap

Well Construction Information

Monument Type:	Flush Mount	**Filter Pack:**	10/20 sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (inches):	2	**Surface Seal:**	Cement	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (inches):	0.010	**Annular Seal:**	Bentonite	**Surveyed Location:**	X: 1328829.46 E
Screened Interval (ft bgs):	2.5 to 18.5'	**Boring Abandonment:**	NA		Y: 170532.13 N

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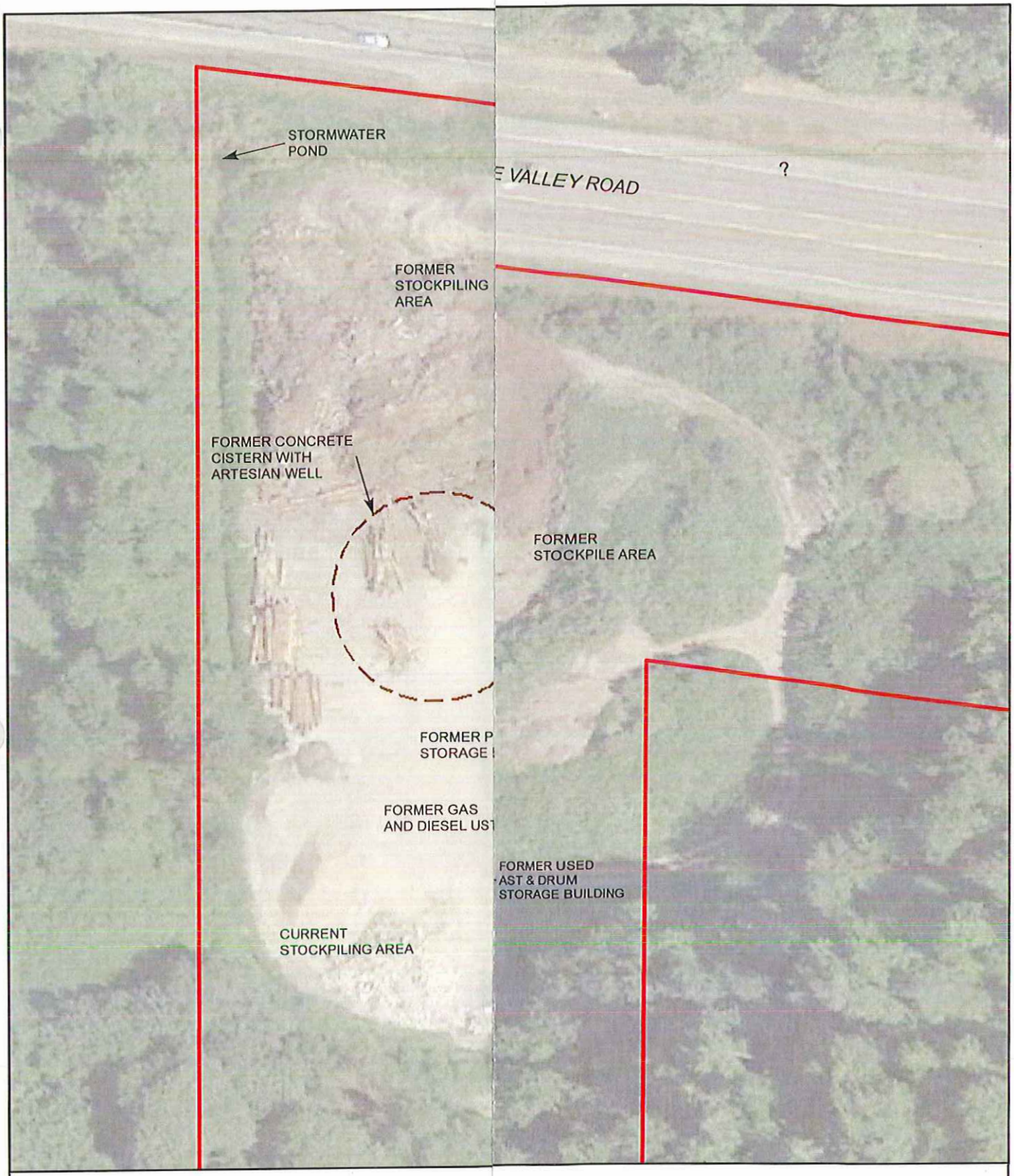

LEGEND

MW-7 MONITORING WELL

TP-01 TEST PIT LOCATION

SITE BOUNDARY

168 GROUNDWATER SURFAC CONTOUR (DASHED WHE

APPROXIMATE DIRECTIO GROUNDWATER FLOW

(160.01) GROUNDWATER LEVEL E

KING COUNTY PARCEL: 1923069026
SOURCE AERIAL: GOOGLE EARTH IMAGERY (JULY 2014)

Washington
Bellingham | Seattle

Oregon
| Bend | Baker City

California
| Sacramento | Irvine

allonconsulting.com

FIGURE 3

GROUNDWATER CONTOURS
LAKESIDE INDUSTRIES
18825 SOUTHEAST RENTON-MAPLE VALLEY ROAD
RENTON, WASHINGTON

FARALLON PN: 525-022

ecked By: HC Date: 6/22/2016 Disc Reference:
s\525 Lakeside Ind\525022 18825 Southeast Renton-Maple Valley Road\GIS\Figure 3 GW CNT NoUtil.mxd

APPENDIX B

Water System Records and Ecology Well Logs

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - Goodnight Properties Water System - Water System Id - AB892

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Group	B	**Status**	Active	**Ownership Type**	Investor
Type		**Residential Population**	0	**Jurisdiction**	
County	KING	**NonResidential Population**	2	**System Effective Date**	10/25/2007
Owner Name	Goodnight Properties Water System	**Total Calculated Connections**	1	**System Inactive Date**	
Primary Contact	Debbie Silva	**Total Approved Connections**	1	**SMA Name**	
Primary Contact Phone	(360) 794-6220	**Distribution Capacity (gallons)**	0	**SMA Number**	
Water System Mailing Address	PO Box 1347 Monroe, WA 98058				

Home Page | Find Water Systems | Find Water Quality | Downloads/Reports

DOH Home | Community and Environment | Drinking Water Home | Drinking Water Contacts
Access Local Health | Privacy Notice | Disclaimer/Copyright Information

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Mail:
PO BOX 47822
Olympia, WA 98504-7822

Phone: (360) 236-4357
Toll Free: (800) 521-0323

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Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - Goodnight Properties Water System - Water System Id - AB892

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Source 01 - Well AFJ613

Source Status	Active	**Usage**	Permanent	**WRIA**	Cedar-Sammamish	**Intertie Supplying System**	NA
Type	Groundwater Well	**Capacity (gpm)**	20	**Township**	23	**Intertie Supplying Number**	NA
Effective Date	10/18/2007	**Treated**	No	**Range**	06E		
Inactive Date		**Metered**	Yes	**Section**	19		
DOE Well Tag Number	AFJ613	**Well Depth (ft)**	50	**Qtr/Qtr Section**	SESE		

Records 1 - 1 of 1

Display as table with source treatment information

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Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 0
Updated: 10/25/2007
Printed: 5/7/2017
WFI Printed For: On-Demand
Submission Reason: New System

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
AB892 A	GOODNIGHT PROPERTIES WATER SYSTEM	KING	B	

6. PRIMARY CONTACT NAME & MAILING ADDRESS

DEBBIE SILVA [PROJECT MANAGER]
GOODNIGHT PROPERTIES INC
PO BOX 1347
MONROE, WA 98058

7. OWNER NAME & MAILING ADDRESS — **8. OWNER NUMBER: 032884**

GOODNIGHT PROPERTIES INC
GARY D. GOODNIGHT — PRESIDENT
PO BOX 1347
MONROE, WA 98058

STREET ADDRESS IF DIFFERENT FROM ABOVE

ATTN
ADDRESS 18825 RENTON-MAPLE VALLEY RD SE
CITY RENTON STATE WA ZIP 98058

STREET ADDRESS IF DIFFERENT FROM ABOVE

ATTN
ADDRESS
CITY STATE ZIP

9. 24 HOUR PRIMARY CONTACT INFORMATION

Primary Contact Daytime Phone: (360) 794-6220
Primary Contact Mobile/Cell Phone:
Primary Contact Evening Phone:
Fax:
E-mail: xxxxxxxxxxxxxxxxxxx

10. OWNER CONTACT INFORMATION

Owner Daytime Phone: (360) 794-6220
Owner Mobile/Cell Phone:
Owner Evening Phone:
Fax:
E-mail: xxxxxxxxxxxxxxxxxxx

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

SATELLITE MANAGEMENT AGENCY - SMA (check only one)

- [x] Not applicable (Skip to #12)
- [ ] Owned and Managed
- [ ] Managed Only
- [ ] Owned Only

SMA NAME: _____ SMA Number:

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

- [ ] Agricultural
- [x] Commercial / Business
- [ ] Day Care
- [ ] Food Service/Food Permit
- [ ] 1,000 or more person event for 2 or more days per year
- [ ] Hospital/Clinic
- [ ] Industrial
- [ ] Licensed Residential Facility
- [ ] Lodging
- [ ] Recreational / RV Park
- [ ] Residential
- [ ] School
- [ ] Temporary Farm Worker
- [ ] Other (church, fire station, etc.): _____

13. WATER SYSTEM OWNERSHIP (mark only one)

- [ ] Association
- [ ] City / Town
- [ ] County
- [ ] Federal
- [x] Investor
- [ ] Private
- [ ] Special District
- [ ] State

14. STORAGE CAPACITY (gallons)

15	16	17	18 SOURCE CATEGORY										19 USE			20	21 TREATMENT						22	23	24 SOURCE LOCATION			
Source Number	SOURCE NAME LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456 IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SEATTLE	INTERTIE SYSTEM ID NUMBER	WELL	WELL FIELD	WELL IN A WELL FIELD	SPRING	SPRING FIELD	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT	SEASONAL	EMERGENCY	SOURCE METERED	NONE	CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE
S01	Well AFJ613		X										X			Y	X						30	20	SE SE	19	23N	06E

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
AB892 A	GOODNIGHT PROPERTIES WATER SYSTEM	KING	B	

	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		0	0
A. Full Time Single Family Residences (Occupied 180 days or more per year)	0		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	0
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	1	1	1
28. TOTAL SERVICE CONNECTIONS		1	1

29. FULL-TIME RESIDENTIAL POPULATION

A. How many residents are served by this system 180 or more days per year? 0

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

EMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?												
B. How many days per month is water accessible to the public?												

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?	2	2	2	2	2	2	2	2	2	2	2	2
B. How many days per month are they present?	20	20	20	20	20	20	20	20	20	20	20	20

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
* Requirement is exception from WAC 246-290												

34. NITRATE SCHEDULE	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
(One Sample per source by time period)			

35. Reason for Submitting WFI:

☐ Update - Change ☐ Update - No Change ☐ Inactivate ☐ Re-Activate ☐ Name Change ☐ New System ☐ Other _____

I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____ DATE: _____

PRINT NAME: _____ TITLE: _____

WS ID	WS Name
AB892	GOODNIGHT PROPERTIES WATER SYSTEM

Total WFI Printed: 1

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - Goodnight Properties Water System - Water System Id - AB892

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Source	DOE Source	Collect Date	Test Panel	Analyte Group	Sample Number	Lab Number	Exceedances
Dist		3/27/2009	COLI_AP	MICRO	99148	089	No

Records 1 - 1 of 1

Export CSV

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

10 & 281

WATER WELL REPORT

STATE OF WASHINGTON

Notice of Intent W118743

UNIQUE WELL I.D. # AFJ613

Water Right Permit No _____

(1) OWNER: Name Goodnight Properties Address P.O. Box 1347 Monroe wa 98272

(2) LOCATION OF WELL: County King SE 1/4 SE 1/4 Sec 19 T 23 N R 5E WM

(2a) STREET ADDRESS OF WELL: (or nearest address) 18825 Hyw 169 Renton Wa.

TAX PARCEL NO. 23-5E-19R

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

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

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 50 feet Depth of completed well 50 ft

(6) CONSTRUCTION DETAILS
Casing Installed:
☐ Welded 6" Diam from +2 ft to 18 ft
☑ Liner installed 4" Diam from -6" ft to 30 ft
☐ Threaded _____" Diam from _____ ft to _____ ft

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

Screens: ☑ Yes ☐ No ☐ K-Pac Location _____
Manufacturer's Name Western
Type PVC Model No _____
Diam 4 Slot Size 15 from 30 ft to 50 ft
Diam _____ Slot Size _____ from _____ ft to _____ ft

Gravel/Filter packed: ☑ Yes ☐ No ☐ Size of gravel/sand 8-12 Silica
Material placed from 1 ft to 50 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 Goulds
Type Submersable HP 1

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft
Static level 2 ft below top of well Date Nov 1/00
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
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test 24 gal/min with 3 ft drawdown after 2 hrs
Airtest _____ 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 or DECOMMISSIONING PROCEDURE DESCRIPTION
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

MATERIAL	FROM	TO
Sandy Brown clay rocks	0	4
Brown Till	4	12
Blue Till	12	32
Sand & gravel (water)	32	50

RECEIVED
NOV 07 2000
DEPT OF ECOLOGY

Work Started Nov 1/00 Completed Nov 2/00

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

Type or Print Name L. GOSLING License No 1539
(Licensed Driller/Engineer)

Trainee Name _____ License No _____

Drilling Company CASCADE DRILLING

(Signed) _____ License No 1539
(Licensed Driller/Engineer)

Address 7411 30 ST NE MARYSVILLE WA.

Contractor's Registration No CASCADO91P8 Date Nov 4/00

(USE ADDITIONAL SHEETS IF NECESSARY)

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ECY 050-1-20 (11/98)

The Department of Ecology does NOT warranty the data and/or the information on this well report.

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - MURALT, TED - Water System Id - 52541

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Group	B	**Status**	Active	**Ownership Type**	Investor
Type		**Residential Population**	5	**Jurisdiction**	WA DOH ODW
County	KING	**NonResidential Population**	0	**System Effective Date**	9/1/1988
Owner Name	MURALT, TED	**Total Calculated Connections**	2	**System Inactive Date**	
Primary Contact	Richardo Ramacho	**Total Approved Connections**	2	**SMA Name**	
Primary Contact Phone	(000)000-0000	**Distribution Capacity (gallons)**	250,000	**SMA Number**	
Water System Mailing Address	17823 MAPLE VALLEY HIGHWAY MAPLE VALLEY, WA 98058				

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Help

Individual System View - MURALT, TED - Water System Id - 52541

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Source 01 - WELL #1

Source Status	Active	**Usage**	Permanent	**WRIA**	Duwamish-Green	**Intertie Supplying System**	NA
Type	Groundwater Well	**Capacity (gpm)**	22	**Township**	24	**Intertie Supplying Number**	NA
Effective Date	1/1/1970	**Treated**	No	**Range**	05E		
Inactive Date		**Metered**	Undefined	**Section**	24		
DOE Well Tag Number		**Well Depth (ft)**	22	**Qtr/Qtr Section**	NWSE		

Records 1 - 1 of 1

Display as table with source treatment information

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WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 0
Updated: 08/21/2006
Printed: 5/7/2017
WFI Printed For: On-Demand
Submission Reason: Non-Periodic update

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
52541 F	MURALT, TED	KING	B	

6. PRIMARY CONTACT NAME & MAILING ADDRESS

RICHARDO RAMACHO [WS - PRIMARY CONTACT]
17823 MAPLE VALLEY HIGHWAY
MAPLE VALLEY, WA 98058

7. OWNER NAME & MAILING ADDRESS — **8. OWNER NUMBER: 013414**

RICHARDO RAMACHO
17823 MAPLE VALLEY HIWAY
MAPLE VALLEY, WA 98058

STREET ADDRESS IF DIFFERENT FROM ABOVE

ATTN
ADDRESS
CITY STATE ZIP

STREET ADDRESS IF DIFFERENT FROM ABOVE

ATTN
ADDRESS
CITY STATE ZIP

9. 24 HOUR PRIMARY CONTACT INFORMATION		10. OWNER CONTACT INFORMATION	
Primary Contact Daytime Phone: (000)000-0000		Owner Daytime Phone: (000)000-0000	
Primary Contact Mobile/Cell Phone:		Owner Mobile/Cell Phone:	
Primary Contact Evening Phone:		Owner Evening Phone:	
Fax:	E-mail: xxxxxxxxxxxxxxxxxxx	Fax:	E-mail: xxxxxxxxxxxxxxxxxxx

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

SATELLITE MANAGEMENT AGENCY - SMA (check only one)

- [x] Not applicable (Skip to #12)
- [ ] Owned and Managed
- [ ] Managed Only
- [ ] Owned Only

SMA NAME: _____ SMA Number:

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

- [ ] Agricultural
- [ ] Commercial / Business
- [ ] Day Care
- [ ] Food Service/Food Permit
- [ ] 1,000 or more person event for 2 or more days per year
- [ ] Hospital/Clinic
- [ ] Industrial
- [ ] Licensed Residential Facility
- [ ] Lodging
- [ ] Recreational / RV Park
- [x] Residential
- [ ] School
- [ ] Temporary Farm Worker
- [ ] Other (church, fire station, etc.): _____

13. WATER SYSTEM OWNERSHIP (mark only one)

- [ ] Association
- [ ] City / Town
- [ ] County
- [ ] Federal
- [x] Investor
- [ ] Private
- [ ] Special District
- [ ] State

14. STORAGE CAPACITY (gallons)

250,000

15	16	17	18 SOURCE CATEGORY										19 USE			20	21 TREATMENT						22	23	24 SOURCE LOCATION			
Source Number	SOURCE NAME LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456 IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SEATTLE	INTERTIE SYSTEM ID NUMBER	WELL	WELL FIELD	WELL IN A WELL FIELD	SPRING	SPRING FIELD	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT	SEASONAL	EMERGENCY	SOURCE METERED	NONE	CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE
S01	WELL #1		X										X				X						22	22	NW SE	24	24N	05E

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
52541 F	MURALT, TED	KING	B	

	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		2	2
A. Full Time Single Family Residences (Occupied 180 days or more per year)	2		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	0
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	0	0	0
28. TOTAL SERVICE CONNECTIONS		2	2

29. FULL-TIME RESIDENTIAL POPULATION

A. How many residents are served by this system 180 or more days per year? 5

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

TEMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?												
B. How many days per month is water accessible to the public?												

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?												
B. How many days per month are they present?												

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
* Requirement is exception from WAC 246-290												

34. NITRATE SCHEDULE	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
(One Sample per source by time period)			

35. Reason for Submitting WFI:

☐ Update - Change ☐ Update - No Change ☐ Inactivate ☐ Re-Activate ☐ Name Change ☐ New System ☐ Other _____

I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____ **DATE:** _____

PRINT NAME: _____ **TITLE:** _____

WS ID	WS Name
52541	MURALT, TED

Total WFI Printed: 1

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

Muralt

WATER WELL REPORT
STATE OF WASHINGTON

23/05-24R
Application No. .....
Permit No. .....

(1) OWNER: Name Ted Murall Address 17855 Renton-Maple Valley Highway SE

(2) LOCATION OF WELL: County King SE ¼ SE ¼ Sec. 24 T. 23 N., R. 5E W.M.

Bearing and distance from section or subdivision corner See attached

(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 22 ft. Depth of completed well 22 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 22 ft.
Threaded ☐ ." Diam. from ft. to ft.
Welded ☒ ." Diam. from ft. to ft.

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

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

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

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

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

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 3 ft. below top of well Date 7/25/80
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?
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 50 gal./min. with 10 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
Surface	0	3
Brown sand & gravel Clay	3	16
Gray water sand & gravel	16	22
Gray heaving sand	22	—

Work started 7/25, 19 80 Completed 7/25, 19 80

WELL DRILLER'S STATEMENT:

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

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

Address 19415 108th Ave SE Renton 98055

[Signed] Brad Johnson
(Well Driller)

License No. 0233 Date 7/25, 19 80

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - KING COUNTY SHOP #2 - Water System Id - 38640

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Group	B	**Status**	Active	**Ownership Type**	Investor
Type		**Residential Population**	0	**Jurisdiction**	WA DOH ODW
County	KING	**NonResidential Population**	24	**System Effective Date**	1/1/1970
Owner Name	KING COUNTY SHOP #2	**Total Calculated Connections**	5	**System Inactive Date**	
Primary Contact		**Total Approved Connections**	Undetermined	**SMA Name**	
Primary Contact Phone	(425) 392-3355	**Distribution Capacity (gallons)**	1,000	**SMA Number**	
Water System Mailing Address	ISSAQUAH, WA 98027				

Home Page | Find Water Systems | Find Water Quality | Downloads/Reports

DOH Home | Community and Environment | Drinking Water Home | Drinking Water Contacts
Access Local Health | Privacy Notice | Disclaimer/Copyright Information

Links to external resources are provided as a public service and do not imply endorsement by the Washington State Department of Health

Department of Health, Office of Drinking Water

Street Address:
243 Israel Road S.E. 2nd floor
Tumwater, WA 98501

Mail:
PO BOX 47822
Olympia, WA 98504-7822

Phone: (360) 236-4357
Toll Free: (800) 521-0323

Send inquiries about DOH and its programs to the Health Consumer Assistance Office
Comments or questions regarding this Web site? Send email to Environmental Health Application Support or call 888-457-2467.

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - KING COUNTY SHOP #2 - Water System Id - 38640

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Source 01 - WELL #1

Source Status	Active	**Usage**	Permanent	**WRIA**	Cedar-Sammamish	**Intertie Supplying System**	NA
Type	Groundwater Well	**Capacity (gpm)**		**Township**	23	**Intertie Supplying Number**	NA
Effective Date	1/1/1970	**Treated**	No	**Range**	06E		
Inactive Date		**Metered**	Undefined	**Section**	19		
DOE Well Tag Number		**Well Depth (ft)**	35	**Qtr/Qtr Section**	SWSE		

Records 1 - 1 of 1

Display as table with source treatment information

Department of Health, Office of Drinking Water

Street Address:
243 Israel Road S.E. 2nd floor
Tumwater, WA 98501

Mail:
PO BOX 47822
Olympia, WA 98504-7822

Phone: (360) 236-4357
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Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 0
Updated: 12/13/1991
Printed: 5/7/2017
WFI Printed For: On-Demand
Submission Reason: Non-Periodic update

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
38640 D	KING COUNTY SHOP #2	KING	B	

6. PRIMARY CONTACT NAME & MAILING ADDRESS

RICHARD SCHRODER [OWNER]
P O BOX 1324
ISSAQUAH, WA 98027

7. OWNER NAME & MAILING ADDRESS — **8. OWNER NUMBER: 002979**

RICHARD SCHROEDER
P.O. BOX 1324
ISSAQUAH, WA 98027

STREET ADDRESS IF DIFFERENT FROM ABOVE

ATTN
ADDRESS
CITY STATE ZIP

STREET ADDRESS IF DIFFERENT FROM ABOVE

ATTN
ADDRESS
CITY STATE ZIP

9. 24 HOUR PRIMARY CONTACT INFORMATION		10. OWNER CONTACT INFORMATION	
Primary Contact Daytime Phone: (425) 392-3355		Owner Daytime Phone:	
Primary Contact Mobile/Cell Phone:		Owner Mobile/Cell Phone:	
Primary Contact Evening Phone: (xxx)-xxx-xxxx		Owner Evening Phone:	
Fax:	E-mail: xxxxxxxxxxxxxxxxxxx	Fax:	E-mail: xxxxxxxxxxxxxxxxxxx

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

SATELLITE MANAGEMENT AGENCY - SMA (check only one)

- [x] Not applicable (Skip to #12)
- [ ] Owned and Managed
- [ ] Managed Only
- [ ] Owned Only

SMA NAME: _____ SMA Number:

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

- [ ] Agricultural
- [ ] Commercial / Business
- [ ] Day Care
- [ ] Food Service/Food Permit
- [ ] 1,000 or more person event for 2 or more days per year
- [x] Hospital/Clinic
- [ ] Industrial
- [ ] Licensed Residential Facility
- [ ] Lodging
- [ ] Recreational / RV Park
- [ ] Residential
- [ ] School
- [ ] Temporary Farm Worker
- [ ] Other (church, fire station, etc.): _____

13. WATER SYSTEM OWNERSHIP (mark only one)

- [ ] Association
- [ ] City / Town
- [ ] County
- [ ] Federal
- [x] Investor
- [ ] Private
- [ ] Special District
- [ ] State

14. STORAGE CAPACITY (gallons)

1,000

15	16 SOURCE NAME	17 INTERTIE	18 SOURCE CATEGORY										19 USE			20	21 TREATMENT						22 DEPTH	23	24 SOURCE LOCATION			
Source Number	LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456 IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SEATTLE	INTERTIE SYSTEM ID NUMBER	WELL	WELL FIELD	WELL IN A WELL FIELD	SPRING	SPRING FIELD	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT	SEASONAL	EMERGENCY	SOURCE METERED	NONE	CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE
S01	WELL #1		X										X				X						35		SW SE	19	23N	06E

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
38640 D	KING COUNTY SHOP #2	KING	B	

	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		0	Undetermined
A. Full Time Single Family Residences (Occupied 180 days or more per year)	0		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	5	5	
28. TOTAL SERVICE CONNECTIONS		5	

29. FULL-TIME RESIDENTIAL POPULATION

A. How many residents are served by this system 180 or more days per year? 0

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

EMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?	24	24	24	24	24	24	24	24	24	24	24	24
B. How many days per month is water accessible to the public?	1	1	1	1	1	1	1	1	1	1	1	1

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?												
B. How many days per month are they present?												

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
* Requirement is exception from WAC 246-290												

34. NITRATE SCHEDULE	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
(One Sample per source by time period)			

35. Reason for Submitting WFI:

☐ Update - Change ☐ Update - No Change ☐ Inactivate ☐ Re-Activate ☐ Name Change ☐ New System ☐ Other _____

I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____ DATE: _____

PRINT NAME: _____ TITLE: _____

WS ID	WS Name
38640	KING COUNTY SHOP #2

Total WFI Printed: 1

RETURN ADDRESS

Goodnight Properties, Inc.
P.O. Box 1347
Monroe, WA 98272

Please print neatly or type information

Document Title(s)

DECLARATION OF COVENANT TO ACKNOWLEDGE USE OF A WELL FOR IRRIGATION PURPOSES ONLY, AND NOT TO BE CONNECTED TO POTABLE WATER SOURCE OR USED FOR POTABLE WATER SOURCE

Reference Number(s) of related documents

20051229000800

Additional Reference #'s on page 4

Grantor(s) (Last, First, and Middle Initial)

Goodnight, Gary D.
Goodnight, Shelley M.

Additional grantors on page #'s

Legal Description (abbreviated form: i.e. lot, block, plat or section, township, range, quarter/quarter)

Legal Description is attached on page 4
192306/ SW-19-23-6

Assessor's Property Tax Parcel/Account Number

192306902607

Additional parcel #'s on page

FILING: Phone: (206) 296-1570
Department of Records and Elections
Room 311, County Administration Building
4th & James, Seattle, WA 98104

DISCLAIMER REGARDING USE OF THIS FORM

This blank form is provided for informational purposes only and is not intended as a complete or legally sufficient form. Neither King County, Public Health – Seattle & King County, nor any of their officials and employees make any warranty of any kind, express or implied, in relation to any information on this form or any use made of this form by any person. No information on this form, nor any use made of this form shall create any liability on the part of King County, Public Health – Seattle & King County, or any of their officials or employees. As with any document affecting the rights and responsibilities of real property ownership, we recommend that you consult with your private legal counsel before filling out, signing, or making any other use of this form.

DECLARATION OF COVENANT TO ACKNOWLEDGE USE OF A WELL FOR IRRIGATION PURPOSES ONLY, AND NOT TO BE CONNECTED TO POTABLE WATER SOURCE OR USED FOR POTABLE WATER SOURCE

Know all men by these presents that I(we) the undersigned, owner(s)_____in fee simple of the land described herein, hereby declare this covenant and place same on record. I(we), am(are) the owner(s) in fee simple of (an interest in) the following described real estate situated in KING County, State of Washington, to wit: (INCLUDE LEGAL, PARCEL NUMBER & ADDRESS)

(See Pg 4 for legal description) Parcel # 1923069026
18825 Renton Maple Valley Rd, Renton, WA 98058

I (we) use water for non potable use only from an irrigation well located on said real estate, to-wit: (PINPOINT THE ACCURATE LOCATION OF THE IRRIGATION WELL SITE, FOR EXAMPLE, 125 FEET OF THE SOUTH PROPERTY LINE AND 100 FEET EAST OF THE WEST PROPERTY LINE ALONG WITH THE PROPERTY LEGAL DESCRIPTION FOR THE PROPERTY ON WHICH THE IRREGATION WELL IS LOCATED).

100 FEET SOUTH OF THE NORTH PROPERTY LINE AND 450 FEET WEST OF THE EAST PROPERTY LINE AND 760 FEET EAST OF THE WEST PROPERTY LINE. (Legal Description is on page 4)

1. I(We) covenant for myself (selves), and for any future purchasers, successors or assignees that this well is to be utilizes solely for irrigation purposes and is not to be connected to any potable water supplies.
2. All original minimum set-back distances will apply to this well, including 100 feet from septic drainfields and other potential sources of contamination per WAC 173.160.171 or its successor.
3. This well will be utilized to irrigate not more than one-half acre in area of lawn or non-commercial garden as per RCW 90.44.050.

This covenant shall run with the land and shall be binding on all parties having or acquiring any right, title, or interest in the land described herein or any part thereof, as long as said well or waterworks is used for the purpose of furnishing irrigation water to the above real property decribed earlier in this document.

WITNESS Danielle hand ___ this 18th day of June, 19 2009

Gary Goodnight (Seal)

Shelley Goodnight (Seal)

Grantor

State of Washington
County of Snohomish)

I, the undersigned, a Notary Public in and for the above named County and State, do hereby certify that on this 18th day of June, 2009, personally appeared before me Shelley M Goodnight and Gary D Goodnight to me known to be the individual ___ described in and who executed the within instrument, and acknowledge that he (they) signed and sealed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal the day and year last above written.

Coral D Bush
(Notary Public in and for the State of Washington, residing at Monroe

Reference Number: 20051229000800: recorded into King County on 12/29/2005

This is the **King County Group B Water Use Agreement** for the *new* on site well system for the property in question.

Legal Description:

192306 26BEG 731 FT N SW COR GL 8 TH S83-38-00 E 665 FT TH N 06-28-00 E210 FT TO SLY MGN RENTON-MAPLE VALLEY RD TH W ALG SD RD TO W LNLOT 8 TH S TO BEG LESS C/M/ RGTSALSO E 950 FT OF GL 9 LY S OF RENTON- MAPLE VALLEY RD LESS C/M RG

Quarter Section Township Range

SW–19-23-6

Parcel Address:

18825 SE Renton Maple Valley Rd, Renton, WA 98058

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - KENNYS SERVICE STATION - Water System Id - 38128

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Group	B	**Status**	Active	**Ownership Type**	Investor
Type		**Residential Population**	20	**Jurisdiction**	WA DOH ODW
County	KING	**NonResidential Population**	0	**System Effective Date**	1/1/1970
Owner Name	KENNYS SERVICE STATION	**Total Calculated Connections**	8	**System Inactive Date**	
Primary Contact	PRIMARY CONTACT WS# 38128 KENNYS SERVICE STATION	**Total Approved Connections**	Undetermined	**SMA Name**	
Primary Contact Phone		**Distribution Capacity (gallons)**	80	**SMA Number**	
Water System Mailing Address					

Home Page | Find Water Systems | Find Water Quality | Downloads/Reports

DOH Home | Community and Environment | Drinking Water Home | Drinking Water Contacts
Access Local Health | Privacy Notice | Disclaimer/Copyright Information

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Department of Health, Office of Drinking Water

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243 Israel Road S.E. 2nd floor
Tumwater, WA 98501

Mail:
PO BOX 47822
Olympia, WA 98504-7822

Phone: (360) 236-4357
Toll Free: (800) 521-0323

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Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - KENNYS SERVICE STATION - Water System Id - 38128

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Source 01 - Well 01

Source Status	Active	**Usage**	Permanent	**WRIA**	Cedar-Sammamish	**Intertie Supplying System**	NA
Type	Groundwater Well	**Capacity (gpm)**		**Township**	23	**Intertie Supplying Number**	NA
Effective Date	1/1/1970	**Treated**	Yes	**Range**	06E		
Inactive Date		**Metered**	Undefined	**Section**	19		
DOE Well Tag Number		**Well Depth (ft)**	11	**Qtr/Qtr Section**	SESE		

Records 1 - 1 of 1

Display as table with source treatment information

Links to external resources are provided as a public service and do not imply endorsement by the Washington State Department of Health

Department of Health, Office of Drinking Water

Street Address:
243 Israel Road S.E. 2nd floor
Tumwater, WA 98501

Mail:
PO BOX 47822
Olympia, WA 98504-7822

Phone: (360) 236-4357
Toll Free: (800) 521-0323

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Comments or questions regarding this Web site? Send email to Environmental Health Application Support or call 888-457-2467.

Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 0
Updated: 05/14/2002
Printed: 5/7/2017
WFI Printed For: On-Demand
Submission Reason: Non-Periodic update

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
38128 C	KENNYS SERVICE STATION	KING	B	

6. PRIMARY CONTACT NAME & MAILING ADDRESS

PRIMARY CONTACT WS# 38128 KENNYS SERVICE STATION [WS - PRIMARY CONTACT]
18015 MAPLE VLLY HWY
RENTON, WA 98055

7. OWNER NAME & MAILING ADDRESS

KENNYS SERVICE STATION
NEED PRIMARY CONTACT OWNER ORG
OWNER ORG - PRIMARY CO
18015 MAPLE VLLY HWY
RENTON, WA 98055

8. OWNER NUMBER: 002946

STREET ADDRESS IF DIFFERENT FROM ABOVE

ATTN
ADDRESS
CITY STATE ZIP

STREET ADDRESS IF DIFFERENT FROM ABOVE

ATTN
ADDRESS
CITY STATE ZIP

9. 24 HOUR PRIMARY CONTACT INFORMATION		10. OWNER CONTACT INFORMATION	
Primary Contact Daytime Phone:		Owner Daytime Phone:	
Primary Contact Mobile/Cell Phone:		Owner Mobile/Cell Phone:	
Primary Contact Evening Phone:		Owner Evening Phone:	
Fax:	E-mail: xxxxxxxxxxxxxxxxxxx	Fax:	E-mail: xxxxxxxxxxxxxxxxxxx

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

SATELLITE MANAGEMENT AGENCY - SMA (check only one)

- [x] Not applicable (Skip to #12)
- [ ] Owned and Managed
- [ ] Managed Only
- [ ] Owned Only

SMA NAME: _____ SMA Number:

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

- [ ] Agricultural
- [ ] Commercial / Business
- [ ] Day Care
- [ ] Food Service/Food Permit
- [ ] 1,000 or more person event for 2 or more days per year
- [ ] Hospital/Clinic
- [ ] Industrial
- [ ] Licensed Residential Facility
- [ ] Lodging
- [ ] Recreational / RV Park
- [x] Residential
- [ ] School
- [ ] Temporary Farm Worker
- [ ] Other (church, fire station, etc.): _____

13. WATER SYSTEM OWNERSHIP (mark only one)

- [ ] Association
- [ ] City / Town
- [ ] County
- [ ] Federal
- [x] Investor
- [ ] Private
- [ ] Special District
- [ ] State

14. STORAGE CAPACITY (gallons)

80

15	16	17	18 SOURCE CATEGORY										19 USE			20	21 TREATMENT						22	23	24 SOURCE LOCATION			
Source Number	SOURCE NAME LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456 IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SEATTLE	INTERTIE SYSTEM ID NUMBER	WELL	WELL FIELD	WELL IN A WELL FIELD	SPRING	SPRING FIELD	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT	SEASONAL	EMERGENCY	SOURCE METERED	NONE	CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE
S01	Well 01		X										X					X					11		SE SE	19	23N	06E

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
38128 C	KENNYS SERVICE STATION	KING	B	

	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		8	Undetermined
A. Full Time Single Family Residences (Occupied 180 days or more per year)	8		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	0	0	
28. TOTAL SERVICE CONNECTIONS		8	

29. FULL-TIME RESIDENTIAL POPULATION

A. How many residents are served by this system 180 or more days per year? 20

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

TEMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?												
B. How many days per month is water accessible to the public?												

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?												
B. How many days per month are they present?												

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
* Requirement is exception from WAC 246-290												

34. NITRATE SCHEDULE	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
(One Sample per source by time period)			

35. Reason for Submitting WFI:

☐ Update - Change ☐ Update - No Change ☐ Inactivate ☐ Re-Activate ☐ Name Change ☐ New System ☐ Other _____

I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____ DATE: _____

PRINT NAME: _____ TITLE: _____

WS ID	WS Name
38128	KENNYS SERVICE STATION

Total WFI Printed: 1

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - king county water district no 90 - Water System Id - 41150

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Group	A	**Status**	Active	**Ownership Type**	Special District
Type	Community	**Residential Population**	19,100	**Jurisdiction**	WA DOH ODW
County	KING	**NonResidential Population**	500	**System Effective Date**	1/1/1970
Owner Name	KING COUNTY WATER DISTRICT NO 90	**Total Calculated Connections**	7,814	**System Inactive Date**	
Primary Contact	Darcey Peterson	**Total Approved Connections**	Unspecified	**SMA Name**	
Primary Contact Phone	(425) 255-9600	**Distribution Capacity (gallons)**	7,446,000	**SMA Number**	
Water System Mailing Address					

Home Page | Find Water Systems | Find Water Quality | Downloads/Reports

DOH Home | Community and Environment | Drinking Water Home | Drinking Water Contacts
Access Local Health | Privacy Notice | Disclaimer/Copyright Information

Links to external resources are provided as a public service and do not imply endorsement by the Washington State Department of Health

Department of Health, Office of Drinking Water

Street Address:
243 Israel Road S.E. 2nd floor
Tumwater, WA 98501

Mail:
PO BOX 47822
Olympia, WA 98504-7822

Phone: (360) 236-4357
Toll Free: (800) 521-0323

Send inquiries about DOH and its programs to the Health Consumer Assistance Office
Comments or questions regarding this Web site? Send email to Environmental Health Application Support or call 888-457-2467.

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Individual System View - king county water district no 90 - Water System Id - 41150

Compliance Actions | Operating Permits | Operators | Reports | Water Use Efficiency

General Information | Source Information | Samples | Exceedances | Water Quality Monitoring Schedule

Source 01 - 77050Y/Seattle

Source Status	Active	**Usage**	Permanent	**WRIA**	Cedar-Sammamish	**Intertie Supplying System**	SEATTLE PUBLIC UTILITIES
Type	Intertie	**Capacity (gpm)**	2,800	**Township**	00	**Intertie Supplying Number**	77050
Effective Date	1/1/1970	**Treated**	No	**Range**	00E		
Inactive Date		**Metered**	Undefined	**Section**			
DOE Well Tag Number		**Well Depth (ft)**		**Qtr/Qtr Section**			

Source 03 - Well 2 APP301

Source Status	Active	**Usage**	Permanent	**WRIA**	Cedar-Sammamish	**Intertie Supplying System**	NA
Type	Groundwater Well	**Capacity (gpm)**	250	**Township**	23	**Intertie Supplying Number**	NA
Effective Date	4/30/2008	**Treated**	Yes	**Range**	05E		
Inactive Date		**Metered**	Yes	**Section**	24		
DOE Well Tag Number	APP301	**Well Depth (ft)**	220	**Qtr/Qtr Section**	NESE		

Source 02 - Wojewodski Well 1

Source Status	Active	**Usage**	Permanent	**WRIA**	Cedar-Sammamish	**Intertie Supplying System**	NA
Type	Groundwater Well	**Capacity (gpm)**	250	**Township**	23	**Intertie Supplying Number**	NA
Effective Date	1/7/2003	**Treated**	Yes	**Range**	05E		
Inactive Date		**Metered**	Yes	**Section**	24		
DOE Well Tag Number		**Well Depth (ft)**	199	**Qtr/Qtr Section**	NESE		

Records 1 - 3 of 5

☐ Display as table with source treatment information

Links to external resources are provided as a public service and do not imply endorsement by the Washington State Department of Health

Department of Health, Office of Drinking Water

Street Address:
243 Israel Road S.E. 2nd floor
Tumwater, WA 98501

Mail:
PO BOX 47822
Olympia, WA 98504-7822

Phone: (360) 236-4357
Toll Free: (800) 521-0323

Send inquiries about DOH and its programs to the Health Consumer Assistance Office
Comments or questions regarding this Web site? Send email to Environmental Health Application Support or call 888-457-2467.

Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 1
Updated: 12/13/2016
Printed: 5/8/2017
WFI Printed For: On-Demand
Submission Reason: Contact Update

RETURN TO: Central Services - WFI, PO Box 47822, Olympia, WA, 98504-7822

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
41150 L	KING COUNTY WATER DISTRICT NO 90	KING	A	Comm

6. PRIMARY CONTACT NAME & MAILING ADDRESS	7. OWNER NAME & MAILING ADDRESS	8. OWNER NUMBER: 003012
DARCEY J. PETERSON [GENERAL MANAGER] 15606 SE 128TH ST RENTON, WA 98059	KING COUNTY WATER DIST. NO 90 JOSHUA A. DERAITUS OPERATIONS MGR 15606 SE 128TH ST RENTON, WA 98059	
STREET ADDRESS IF DIFFERENT FROM ABOVE	**STREET ADDRESS IF DIFFERENT FROM ABOVE**	
ATTN ADDRESS CITY STATE ZIP	ATTN ADDRESS CITY STATE ZIP	

9. 24 HOUR PRIMARY CONTACT INFORMATION		10. OWNER CONTACT INFORMATION	
Primary Contact Daytime Phone: (425) 255-9600		Owner Daytime Phone: (425) 255-9600	
Primary Contact Mobile/Cell Phone: (425) 444-7731		Owner Mobile/Cell Phone: (425) 766-7918	
Primary Contact Evening Phone: (xxx)-xxx-xxxx		Owner Evening Phone: (xxx)-xxx-xxxx	
Fax: (425) 277-4128	E-mail: xxxxxxxxxxxxxxxxxxx	Fax: (425) 277-4128	E-mail: xxxxxxxxxxxxxxxxxxx

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

SATELLITE MANAGEMENT AGENCY - SMA (check only one)

- ☒ Not applicable (Skip to #12)
- ☐ Owned and Managed
- ☐ Managed Only
- ☐ Owned Only

SMA NAME: _____ SMA Number:

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

- ☐ Agricultural
- ☒ Commercial / Business
- ☒ Day Care
- ☒ Food Service/Food Permit
- ☐ 1,000 or more person event for 2 or more days per year
- ☐ Hospital/Clinic
- ☐ Industrial
- ☒ Licensed Residential Facility
- ☐ Lodging
- ☐ Recreational / RV Park
- ☒ Residential
- ☒ School
- ☐ Temporary Farm Worker
- ☒ Other (church, fire station, etc.): _____

13. WATER SYSTEM OWNERSHIP (mark only one)

- ☐ Association
- ☐ City / Town
- ☐ County
- ☐ Federal
- ☐ Investor
- ☐ Private
- ☒ Special District
- ☐ State

14. STORAGE CAPACITY (gallons)

7,446,000

15	16	17	18 SOURCE CATEGORY										19 USE			20	21 TREATMENT						22	23	24 SOURCE LOCATION			
Source Number	LIST UTILITY'S NAME FOR SOURCE AND WELL TAG ID NUMBER. Example: WELL #1 XYZ456. IF SOURCE IS PURCHASED OR INTERTIED, LIST SELLER'S NAME Example: SEATTLE	INTERTIE SYSTEM ID NUMBER	WELL	WELL FIELD	WELL IN A WELL FIELD	SPRING	SPRING FIELD	SPRING IN SPRINGFIELD	SEA WATER	SURFACE WATER	RANNEY / INF. GALLERY	OTHER	PERMANENT	SEASONAL	EMERGENCY	SOURCE METERED	NONE	CHLORINATION	FILTRATION	FLUORIDATION	IRRADIATION (UV)	OTHER	DEPTH TO FIRST OPEN INTERVAL IN FEET	CAPACITY (GALLONS PER MINUTE)	1/4, 1/4 SECTION	SECTION NUMBER	TOWNSHIP	RANGE
S01	77050Y/Seattle	77050 Y											X				X							2800			00N	00E
	Nojewodski Well 1				X								X			Y		X	X	X			124	250	NE SE	24	23N	05E
	Well 2 APP301				X								X			Y		X	X	X			50	250	NE SE	24	23N	05E
S04	Well 1,2,3 Wellfield			X									X			Y		X	X	X			42	450	NE SE	24	23N	05E
S05	Well 3 BCS873				X								X			Y		X	X	X			42	250	SE NE	24	23N	05E

WATER FACILITIES INVENTORY (WFI) FORM - Continued

1. SYSTEM ID NO.	2. SYSTEM NAME	3. COUNTY	4. GROUP	5. TYPE
41150 L	KING COUNTY WATER DISTRICT NO 90	KING	A	Comm

	ACTIVE SERVICE CONNECTIONS	DOH USE ONLY! CALCULATED ACTIVE CONNECTIONS	DOH USE ONLY! APPROVED CONNECTIONS
25. SINGLE FAMILY RESIDENCES (How many of the following do you have?)		7641	Unspecified
A. Full Time Single Family Residences (Occupied 180 days or more per year)	7641		
B. Part Time Single Family Residences (Occupied less than 180 days per year)	0		
26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?)			
A. Apartment Buildings, condos, duplexes, barracks, dorms	0		
B. Full Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied more than 180 days/year	0		
C. Part Time Residential Units in the Apartments, Condos, Duplexes, Dorms that are occupied less than 180 days/year	0		
27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?)			
A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units)	0	0	
B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc.	173	173	
28. TOTAL SERVICE CONNECTIONS		7814	

29. FULL-TIME RESIDENTIAL POPULATION

A. How many residents are served by this system 180 or more days per year? 19100

30. PART-TIME RESIDENTIAL POPULATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many part-time residents are present each month?												
B. How many days per month are they present?												

EMPORARY & TRANSIENT USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month?												
B. How many days per month is water accessible to the public?												

32. REGULAR NON-RESIDENTIAL USERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month?	500	500	500	500	500	500	500	500	500	500	500	500
B. How many days per month are they present?	20	20	20	20	20	20	20	20	20	20	20	20

33. ROUTINE COLIFORM SCHEDULE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
* Requirement is exception from WAC 246-290	20	20	20	20	20	20	20	20	20	20	20	20

34. NITRATE SCHEDULE	QUARTERLY	ANNUALLY	ONCE EVERY 3 YEARS
(One Sample per source by time period)			

35. Reason for Submitting WFI:

☐ Update - Change ☐ Update - No Change ☐ Inactivate ☐ Re-Activate ☐ Name Change ☐ New System ☐ Other _____

I certify that the information stated on this WFI form is correct to the best of my knowledge.

SIGNATURE: _____ DATE: _____

PRINT NAME: _____ TITLE: _____

WS ID	WS Name
41150	KING COUNTY WATER DISTRICT NO 90

Total WFI Printed: 1

WATER WELL REPORT

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

23-SE-24J

Construction/Decommission ("x" in circle) 298782

☒ Construction

☐ Decommission *ORIGINAL INSTALLATION*

Notice of Intent Number

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

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

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

DIMENSIONS: Diameter of well 16 inches, drilled 220 ft. Depth of completed well 190 ft

CONSTRUCTION DETAILS

Casing installed: ☒ Welded 16" Diam. from +1 ft. to 50 ft. ☐ Liner installed 12" Diam. from +5 ft. to 190 ft. ☐ Threaded ____" Diam. From ____ ft. to ____ ft.

Perforations: ☐ Yes ☒ No

Type of perforator used

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

Screens: ☒ Yes ☐ No ☐ K-Pac Location

Manufacturer's Name Alloy Machine Works, Inc.

Type SSI Model No.

Diam. 12 Slot size .040 from 42.7 ft. to 115 ft.

Diam. 12 Slot size .040 from 165 ft. to 190 ft.

Gravel/Filter packed: ☒ Yes ☐ No Size of gravel/sand 8X12

Materials placed from 0 ft. to 190 ft.

Surface Seal: ☒ Yes ☐ No To what depth? 32.8ft

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

PUMP: Manufacturer's Name

Type: H.P.:

WATER LEVELS: Land-surface elevation above mean sea level 147 ft.

Static level ft. below top of well Date

Artesian pressure 5 lbs. per square inch Date 3/18/08

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

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

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

Yield: 465 gal./min. with 31.7 ft. drawdown after 1 hrs.

Yield: 465 gal./min. with 42.1 ft. drawdown after 14 hrs.

Yield: 465 gal./min. with 43.6 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
0 min	43.5	30 min	14.4	4 hr	7.3
5 min	18.7	1 hr	12.41	8 hr	4.3
10 min	17	2 hr	10	24 hr	0.8

Date of test 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 51 Was a chemical analysis made? ☒ Yes ☐ No

CURRENT

Notice of Intent No. W210113

Unique Ecology Well ID Tag No. APP301

Water Right Permit No. G1-25195P

Property Owner Name King County Water District No. 90

Well 2

Well Street Address 17711 SE Jones Rd

City Renton County King County

Location NE1/4-1/4 SE1/4 Sec 24 Twn 23 R 05 ☒ EWM ☐ WWM

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

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. (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
Brown Sand and Gravel	1	18
with Cobbles below 10'		
Gray Clay with occasional	18	40
Sand and Gravel, Thin Layers		
of Green Clay below 35'		
Gray Gravel and Sand Water	40	64
Bearing		
Gray fine to coarse Sand	64	106
with occasional gravel		
and Silt Water Bearing		
Gray fine to medium Sand	106	132
with occasional Gravel		
and Silt, Coal and Wood		
below 125'		
Gray Silty Fine Sand	132	207
with occasional gravel		
to coobles and Gray Clay		
Layers, Coal, and Wood		
increase below 197'		
Gray Clay/Silt with	207	220
Sand and Gravel		

RECEIVED

APR 28 2008

DEPT. OF ECOLOGY

Start Date 01/02/08 Completed Date 04/03/08

Tax Parcel No. 2423059114

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

☒ Driller ☐ Engineer ☐ Trainee Driller or trainee License No. 1476

Name (First Last, Firm) Mickelsen, Todd

Driller/Engineer/Trainee Signature Todd Mickelsen

IF TRAINEE: Driller's License No:

Driller's Signature

Drilling Company Charon Drilling, Inc.

Address 12119 - 224 St East

City, State, Zip Graham, WA 98338

Contractor's Registration No. CHARODI133NF Date 4-23-08

ECY 050-1-20 (Rev 7/06)

Ecology is an Equal Opportunity Employer

The Department of Ecology does not warranty the data and/or the information on this well report.

WATER WELL REPORT

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

DEPARTMENT OF ECOLOGY State of Washington

Construction/Decommission *("x" in circle)*

☒ Construction

☐ Decommission *ORIGINAL INSTALLATION*

Notice of Intent Number _____

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

TYPE OF WORK: Owner's number of well (if more than one) 3

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

DIMENSIONS: Diameter of well 16 inches, drilled 150 ft. Depth of completed well 89 ft.

CONSTRUCTION DETAILS

Casing Installed: ☒ Welded 16" Diam. from +4 ft. to 42 ft.

☒ Liner installed 20" Diam. from +2.5 ft. to 45 ft.

☐ Threaded _____" Diam. From _____ ft. to _____ ft.

Perforations: ☐ Yes ☒ No

Type of perforator used _____

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

Screens: ☒ Yes ☐ No ☐ K-Pac Location _____

Manufacturer's Name JOHNSON

Type STAINLESS STEEL Model No. V-WIRE

Diam. 16" Slot size 80 from 42 ft. to 87 ft.

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

Gravel/Filter packed: ☒ Yes ☐ No Size of gravel/sand 4X8

Materials placed from +2 ft. to 89 ft.

Surface Seal: ☒ Yes ☐ No To what depth? 30 ft.

Material used in seal NEAT PORTLAND CEMENT

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

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

Static level +12.9 ft. below top of well Date 2/20/2014

Artesian pressure _____ lbs. per square inch Date _____

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

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

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

Yield: 245 gal./min. with 24.9 ft. drawdown after 1 hrs.

Yield: 245 gal./min. with 29.1 ft. drawdown after 8 hrs.

Yield: 245 gal./min. with 30.8 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
1 HR	+5.96	23.5	+12.7		
8 HR	+10.88				
12 HR	+11.72				

Date of test 2/19/2014

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 50.9F Was a chemical analysis made? ☒ Yes ☐ No

CURRENT

Notice of Intent No. WE17500

Unique Ecology Well ID Tag No. BCS 873

Water Right Permit No. G1-2519P

Property Owner Name KING COUNTY WATER DISTRICT #90

Well Street Address 17711 SE JONES ROAD

City RENTON County KING

Location SE1/4-1/4 NE1/4 Sec 24 Twn 23N R 5 EWM ☒ Or WWM ☐

(s, t, r Still REQUIRED)

Lat/Long Lat Deg ____ Lat Min/Sec ____

Long Deg ____ Long Min/Sec ____

Tax Parcel No. (Required) 242305-9066

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. (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
BROWN GRAVELLY FINE TO MEDIUM	0'	12'
SAND		
GRAY SILT AND F-M SAND, WITH	12'	27'
TRACE OF GRAVEL		
GRAY STICKY CLAY	27'	45'
GRAY VERY GRAVELLY COARSE	45'	49'
SAND		
GRAY SLIGHTLY GRAVELLY F-M	49'	52'
SAND		
GRAY VERY SANDY GRAVEL	52'	58'
GRAY SLIGHTLY SILTY F-M SAND;	58'	71'
INCREASING GRAVEL		
GRAY F-C SANDY GRAVEL	71'	87'
GRAY SILTY F-M SAND	87'	99'
GRAY SILTY, SLIGHTLY GRAVELLY	99'	108'
FINE SAND		
GRAY SILTY FINE SAND WITH	108'	126'
WITH WOOD/ORGANICS		
GRAY VERY SILTY FINE SAND	126'	133'
GRADING TO SANDY SILT		
GRAY SILTY FINE SAND WITH	133'	144'
ORGANICS		
GRAY SILTY FINE SAND WITH	144'	150'
TRACE OF GRAVEL AND COBBLES		
BOTTOM HOLE	150'	
BACKFILLED FROM 150' TO 89'		
WITH ALTERNATING LAYERS OF		
BENTONITE CHIPS AND PEA GRAVE		

RECEIVED MAR 31 2014 DEPT OF ECOLOGY NWRO WR

Start Date 11/21/2014 Completed Date 2/26/2014

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

☒ Driller ☐ Engineer ☐ Trainee Name (Print) BILLY A. DODGE

Driller/Engineer/Trainee Signature _____

Driller or trainee License No. 1146

IF TRAINEE: Driller's License No:

Driller's Signature:

Drilling Company HOKKAIDO DRILLING, INC.

Address P.O. BOX 100

City, State, Zip GRAHAM, WA 98338

Contractor's Registration No. HOKKADI017M8 Date 3/28/2014

ECY 050-1-20 (Rev 02/10) *If you need this document in an alternate format, please call the Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

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

1556680

DEPARTMENT OF ECOLOGY
State of Washington

Water Well Report

Asterisks (*) Indicates Required Field.

*Notice of Intent Number W357042

*Unique Ecology Well ID Tag Number AFJ-551

Water Right Permit Number -0-

*Property Owner Name Chuck Vowell

*Well Street Address 19002 SE 161st ST

*City Renton *County King

*Location SE 1/4-1/4 SE 1/4 Twn 23 R 6 Sec 19 EWM ■ or WWM ☐

Latitude Lat Deg ____ Lat Min/Sec ____

Longitude Long Deg ____ Long Min/Sec ____

*Tax Parcel No. 192306-9016

*Construction/Decommission

■ Construction

☐ Decommission *Original Installation*

Notice of Intent Number _____

*Proposed Use: ■ Domestic ☐ Industrial ☐ Municipal ☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other _____

*Type of work: Owner's number of well (if more than one) _____

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

*Dimensions: Diameter of well 6 inches, drilled 75 ft.

Depth of completed well 70 ft.

*Construction Details

Casing ■ Welded 6 " Diameter from +1 ft. to 69 ft.

Installed: ☐ Liner installed _____ " Diameter from _____ ft. to _____ ft.

☐ Threaded _____ " Diameter from _____ ft. to _____ ft.

*Perforations: ☐ Yes ■ No

Type of perforator used _____

Size of perforators _____ in. by _____ in. and

Number of perforators _____ from _____ ft. to _____ ft.

*Screens: ☐ Yes ■ No ☐ K-Pac Location _____

Manufacturer's Name _____

Type _____ Model No. _____

Diameter _____ Slot size _____ from _____ ft. to _____ ft.

Diameter _____ Slot size _____ from _____ ft. to _____ ft.

*Gravel/Filter packed: ☐ Yes ■ No Size of gravel/sand _____

Materials placed from _____ ft. to _____ ft.

*Surface Seal: ■ Yes ☐ No To what depth? 18 ft.

Material used in seal bentonite

Did any strata contain unusable water? ☐ Yes ■ No

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

*Pump: Manufacturer's Name _____

Type: _____ H.P. _____

*Water Levels: Land-surface elevation above mean sea level _____ ft.

Static level 55 ft. below top of well Date 2-14-2016

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? ■ No ☐ Yes If yes, by whom? _____

Yield: _____ gallon/minute with _____ ft. drawdown after _____ hrs.

Yield: _____ gallon/minute with _____ ft. drawdown after _____ hrs.

Yield: _____ gallon/minute 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 _____ gallon/minute with _____ ft. drawdown after _____ hrs.

*Airtest 5 gallon/minute with stem set at 68 ft. for 2 hrs.

*Artesian flow _____ gpm *Date _____

*Temperature of water _____ *Was a chemical analysis made? ☐ 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. Use additional sheets if necessary.

Material	From	To
Surface	0	3
Sand - brown	3	11
Hardpan - brown	11	47
Sand-gravel brown	47	61
Sand-gravel-water brown	61	70
Sandstone - gray	70	75

RECEIVED
MAR 28 2016
DEPT OF ECOLOGY
NWRO - WR

*Start Date 2-10-2016 *Completed Date 2-14-2016

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

*■ Driller ☐ Engineer ☐ Trainee Name (Print) Brad Johnson

*Driller/Engineer/Trainee Signature Brad Johnson

*Driller or trainee License Number 0233

*If Trainee: Driller's License Number

*Driller's Signature

*Drilling Company Johnson Drilling Co., Inc

*Address 19415 108th Ave SE

*City, State, Zip Renton, WA 98055

Contractor's Registration Number JOHNSDC202RM Date 2-14-2016