

# Northeast Sammamish Sewer and Water District

## Amendment to Sewer System Plan

**April 2011**

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APR 13 2011

King County DNRP  
Waste Water Treatment Division

**Prepared by:**



**Northeast Sammamish  
Sewer and Water District  
3600 Sahalee Way NE  
Sammamish, WA 98074**

Contact: **Laura Keough**  
425.868.1144

**RH2 Engineering, Inc.  
12100 NE 195th Street, Suite 100  
Bothell, WA 98011**

Contact: **Doug Schlepp, P.E.**  
425.951.5400



# AMENDMENT TO NORTHEAST SAMMAMISH SEWER AND WATER DISTRICT SEWER SYSTEM PLAN

## PURPOSE OF PLAN AMENDMENT

The Northeast Sammamish Sewer and Water District's 2006 Sewer System Plan (Sewer Plan) was approved by the Washington State Department of Ecology (Ecology) and King County (Ordinance No. 16196) on July 7, 2008. The Lake Washington School District (LWSD) recently requested sewer service for a proposed Science, Technology, Engineering, and Math (STEM) school in the lot immediately north of Alcott Elementary. Alcott currently receives sewer service from Northeast Sammamish Sewer and Water District (District).

Because the proposed site of the STEM school is located within King County's rural area and outside of the District's service area, the District is required to provide an amendment to the approved Sewer Plan. The amendment has four objectives: 1) to justify the District's plan to provide sewer service to the STEM school; 2) to analyze whether providing sewer service to the STEM school is consistent with the District's policies and design criteria; 3) to identify system deficiencies created by serving the school; and 4) to identify any necessary improvements.

## AMENDED PLAN SECTIONS

Revisions to the impacted sections of the Sewer Plan are discussed below and are cross-referenced to the existing sewer plan, as necessary.

### *Land Use and Planning Area*

The Sewer Plan evaluated the impacts of the City of Sammamish and King County Comprehensive Land Use planning. The system was analyzed based on the projected population of the District at full development of its service area, as shown on Page 7 of the Sewer Plan. Population projections, land use, study area, planning area, and service area were defined in **Chapter 2** of the Sewer Plan. Because future populations in the Sewer Plan were at full development and the school will add no new housing, there is no need to update the population projections with this amendment.

The study area and service areas are being revised with this amendment to include the STEM school property. **Figures 1 and 2** identify the STEM school property and how serving it will revise the study and service areas.

### *Service Agreements*

Pages 8-11 of the Sewer Plan detail the District's various service agreements, and copies of the agreements are located in **Appendix B**. The District's existing and proposed agreements for school sites are discussed below.

The District has an agreement with LWSD to provide the existing Alcott Elementary with sewer service. The school was initially constructed with a septic system and drain field. In accordance with the initial Washington State Department of Health (DOH) approval, the school was required to connect once sewer service was available. The sewer was connected from the school in 2001.

An agreement will be developed with LWSD to provide sewer service to the proposed STEM school, which will be located on the lot north of Alcott. Sewer service will be provided through an existing stub to the STEM school property from the Alcott property. No extension of the District's sewer system is necessary to serve the property.

### **Consistency and Concurrency**

The majority of the District is within the Urban Growth Boundary (UGB), where sewer service is unrestricted and required. On the other hand, with the exception of public schools, new connections in rural areas are restricted from service by public sewers.

The District's plan to provide sewer service within the UGB is consistent and concurrent with the aforementioned planning documents reviewed. A small portion of the District's facilities and customers are located outside the corporate boundary and the UGB, and they are discussed on page 5 of the Sewer Plan.

While the proposed STEM school will be located outside the UGB, it is consistent with King County Code Section 13.24.134 in that:

1. It is needed to address the needs of a public school with a design daily average flow of more than three thousand five hundred gallons per day. Based on Ecology Criteria for Sewage Works Design Manual, Table G2-1 "Design Basis for New Sewage Works," the STEM school without showers or a cafeteria will produce 7,200 gallons per day. A second flow calculation, based off existing water usage records at Alcott, which is similar in function to the proposed STEM school, results in a flow of approximately 3,700 gallons per day.
2. The connection from the STEM school will be tight-lined. No additional sewer customers will be able to connect to the sewer at this location. The STEM school will connect to an existing sewer stub that is located on the Alcott Elementary site, just south of the STEM school site.
3. No cost-effective alternative technologies are feasible, and an on-site sewer disposal system for the public school would not protect basic public health, safety, and the environment during the use of this site for a school or school facility. LWSD's consultant, LPD Engineering, provided the following estimates. Additional detail is provided in the attached letter.
  - a. The use of a Large Onsite Septic System (LOSS) is not feasible as the site is located within a Category II critical aquifer recharge area. This project is located in a lot likely to be considered "medium susceptibility to ground water contamination and located within a sole source aquifer." Per conversations with the DOH, as a sole source aquifer, the allowed dosing would make the size and cost of the facility infeasible. The estimated construction cost for the LOSS alternative is \$360,000. If extensive de-nitrification is required, the cost could easily double. In addition to cost, there would be extensive added site disturbance and clearing, as the system is expected to cover a large site area.
  - b. The use of holding tanks at the school site, although not categorically disallowed by the DOH, would likely not be approved. Per discussion with the DOH, these facilities are typically only allowed in locations where public sewer service is to be

constructed imminently. The size of the holding tank along with the frequency of the required pumping and disposal would make it a cost prohibitive solution for a school facility. The estimated cost for holding tank installation is \$75,000. Pumping costs would be between \$370,000 and \$720,000 annually.

- c. The option proposed in this amendment is to install private sewer main from the existing manhole on the south edge of the STEM school property (in an easement) to the new building. The estimated construction cost for the extension is \$23,300. Connection charges for King County will be approximately \$109,000 and will be payable over 15 years. The District's connection charge is estimated at \$42,000 and will be due at installation. The sewer fee will be between \$3,000 and \$5,800 annually.

### **Existing System**

The District's existing sewer system that would serve the STEM school is comprised of a tight-line gravity sewer, lift station, and trunk sewer. The STEM school will not require change to the downstream system. Necessary improvements for service to the site will be private, and connection to the system will be made via an existing stub on the Alcott Elementary site.

### **System Analyses**

**Chapter 4** of the Sewer Plan includes the following analyses to assess the sewer system: 1) Pipeline Integrity; 2) Infiltration and Inflow; 3) Pipeline Capacity; 4) Lift Station; 5) Telemetry and Control System; and 6) Wastewater Quality.

The addition of the STEM school does not necessitate revisions to the system analyses. Even with a conservative estimated flow of 7,200 gpd, the proposed equivalent residential units (ERUs) and areas are less than the conditions modeled and planned for during the development of the 2006 Sewer Plan.

### **Capital Improvement Program**

The Capital Improvement Plan (CIP) in **Chapter 5** of Sewer Plan identifies six improvements, none of which are impacted by the addition of the STEM school site. A sewer connection for the STEM school is available on the Alcott school site. Because there is sufficient capacity in the basin and downstream for full-development, no off-site improvements are necessary for service to the STEM school.

### **Operation and Maintenance Analysis Results**

**Chapter 6** of Sewer Plan details the District's Operation and Maintenance (O&M) Program. The addition of the STEM school does not necessitate revisions to the O&M Plan because all necessary sewer improvements will be privately owned and maintained by the LWSD.

### **Financial Analysis Results**

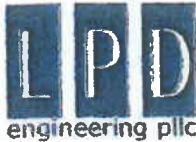
The District's financial records were evaluated in **Chapter 7** of the Sewer Plan to identify the financial performance and the need for additional revenue, if any. Since there will be no revisions to the CIP or O&M Plan, the financial analysis will not change with the addition of the STEM school. LWSD will finance, build, and maintain the necessary private sewer improvements.

***Agency Review and Comments***

The District will submit the draft amendment to the following jurisdictions.

- Washington State Department of Ecology
- King County Water and Land Resources, UTRC
- King County Department of Natural Resources, WDT
- City of Redmond
- City of Sammamish
- Sammamish Plateau Water and Sewer District

Review comments will be included and addressed in the final planning document.



7936 Seward Park Ave. S.  
 Seattle, Washington 98118  
 p. 206.725.1211  
 f. 206.973.5344  
 lpdengineering.com

April 12, 2011

Steve Hirschey  
 King County UTRC Chair  
 King County Wastewater Treatment Division  
 900 Oakesdale Avenue Southwest  
 Renton, WA 98057

**Re: Draft Proposed Amendment to the General Sewer Plan  
 Secondary STEM School (A10P0086)**

Dear Mr. Hirschey:

This letter is to provide back-up information associated with the request for sewer service area modification to include the STEM School property. The subject property is located on parcel #1625069020 near the intersection of NE Redmond - Fall City Road & 228th Ave NE. The property is owned by the Lake Washington School District, which is proposing to construct a new secondary STEM School.

As per the KCC 13.24.134, the following criteria must be met for consideration of sewer service:

- A. Sewer service shall be expanded to serve uses in the rural and natural resource areas only if the facilities are:
  - 1. Needed to address:
    - a) Specific health and safety problems threatening the existing uses of structures; or
    - b) The needs of public school systems with design daily average flows of more than three thousand five hundred gallons per day;
  - 2. Tightlined; and
  - 3. A finding is made by the utilities technical review committee that no cost-effective alternative technologies are feasible and that an on-site sewer disposal system for the public school or public school facility would not protect basic public health, safety, and the environment during the use of this site for a school or school facility.
- B. Decisions on sewer service expansions in rural or resource areas shall be made by King County in the form of approval of a sewer comprehensive plan or approval of an amendment to a sewer comprehensive plan. (Ord. 16265 § 9, 2008; Ord. 14049 § 5, 2001; Ord. 13625 § 12, 1999; Ord. 11616 § 11, 1994)

Per the 2008 DOE Criteria for Sewage Works Design Manual, Table G2-1 "Design Basis for New Sewage Works," for a school without showers and with a cafeteria the design flow is 10 gallons day per person. The proposed new school will be designed to accommodate 675 students and 30 faculty members, for a total flow of approximately 7,200 gallons per day which would meet the criteria of KCC 13.24.134 (A)(1)(b).

#### **Connection to Existing Sewer Main**

The adjacent sewer utility purveyor is the Northeast Sammamish Sewer and Water District. There is an existing 8-inch private sewer main located onsite along the southern boundary of the project parcel. This 8-inch private sewer main provides sewer service to the Alcott Elementary School located to the



south of the project site. The 8-inch private sewer main continues southwest and connects with the 8-inch public sewer main located within NE Redmond - Fall City Road.

The sewer main proposed to serve the STEM School property would be tightlined from the new school building and connected into an existing sewer manhole on this private sewer main. This meets the criteria of KCC 13.24.134 (A)(2).

The estimated construction cost to connect to the existing onsite sanitary sewer is provided below.

*Connection to Existing Sewer Cost Estimate*

No.	Item Description	Quantity	Units	Unit Price	Total
1	6-inch Sanitary Sewer Pipe	150	LF	\$ 38.00	\$ 5,700.00
2	8-inch Sanitary Sewer Pipe	300	LF	\$ 42.00	\$12,600.00
3	Sanitary Sewer Cleanout	1	EA	\$ 250.00	\$ 250.00
4	Sanitary Sewer Manhole	1	EA	\$2,500.00	\$ 2,500.00
5	Connection to Building	1	EA	\$ 250.00	\$ 250.00
6	Connection to Existing Manhole	1	EA	\$2,000.00	\$ 2,000.00
	<b>Total Estimated Cost</b>				<b>\$23,300.00</b>

**Evaluation of Onsite Sewer Alternatives**

Two alternative technologies were evaluated for this site in lieu of connecting to the adjacent sewer system: A large onsite septic system (LOSS) and a sewage holding tank. The alternative technologies are discussed below and preliminary cost estimates have been provided.

Large Onsite Septic System

The project site is located approximately 350 feet to the east of a potable water well source utilized by Union Hill Water Association in a Category II Critical Aquifer Recharge Area (CARA) for a sole source aquifer. In addition, the soils on the site are primarily Vashon Recessional Outwash which is a gravelly sandy soil with high permeability. DOH also restricts loading to a maximum of 900 gpd/acre in soil types 1 and 2. This loading restriction would likely apply to this site, and result in a larger drainfield size, significantly increasing the total disturbed area on the site.

In addition, a site risk survey (SRS) would be required to assess the potential impacts to the groundwater. Depending on the findings of the SRS, additional studies and/or reports may be required to determine if additional treatment will be necessary to protect groundwater. There have been several studies indicating that gravity septic systems are ineffective in treating domestic wastewater in coarse textured soils and that wastewater constituents can be transported to the lower regions of the soils posing a treatment concern in systems that are close to groundwater. The submittal requirements for the SRS, additional studies, and the resulting treatment requirements taken together can significantly increase the design and construction costs.

Based on the design usage at the school of 7,200 gallons per day and working with the project cost estimator, The Robinson Company, who has experience with estimating other LOSS facilities, a construction cost estimate for the LOSS is provided below.

*LOSS Construction Cost Estimate*

No.	Item Description	Quantity	Units	Unit Price	Total
1	Septic System and Drainfield	7,200	GPD	\$50.00	\$360,000
	<b>Total Estimated Cost</b>				<b>\$360,000</b>



If additional treatment such as de-nitrification is required, the construction cost of the LOSS facility could easily double. The Board of the Union Hill Water Association has also raised concerns regarding the school development due to the proximity to their sole source aquifer. The Board will be scrutinizing any proposed design alternatives that could have a negative impact on their aquifer. Therefore, this alternative may not be possible, regardless of cost due to the potential groundwater impacts and opposition by the Union Hill Water Association Board.

### Sewage Holding Tank

The second option is the installation of a sewage holding tank that can be pumped out and disposed of offsite. This would reduce the likelihood of groundwater contamination since the wastewater would be removed from the site of instead of relying on native soil drainfields for final waste disposal and treatment.

The sewage holding tank size is based on the estimated design flows of 7,200 gallons per day and the assumption that the tank would be pumped out every other day so it would require a minimum capacity of 14,400 gallons. To provide a factor of safety, we propose installing a 20,000 gallon holding tank. Cost estimates for the holding tank and pumps were also provided by The Robinson Company, who is the project cost estimator.

### *Sewage Holding Tank Construction Cost Estimate*

No.	Item Description	Quantity	Units	Unit Price	Total
1	Sewage Holding Tank/Vault	20,000	Gallons	\$ 3.00	\$60,000.00
2	Alarms/Pumps/Misc	1	LS	\$15,000.00	\$15,000.00
	<b>Total Estimated Cost</b>				<b>\$75,000.00</b>

Lake Washington School District is currently pumping sewage out of holding tanks at Evergreen Junior High, Bear Creek School, and Dickinson Elementary School and they have provided us with their actual costs for pumping and disposal. Based on the invoices that we were provided, the pumping and disposal cost average approximately \$0.50 per gallon. Copies of these invoices are provided for your reference.

We have provided a range of annual sewage pumping and disposal costs using the design flows of 7,200 gallons per day and also using the actual flows for the adjacent Alcott Elementary School of 3,700 gallons per day. Alcott Elementary has 627 students which is slightly less than the proposed 675 students at the STEM School so the flow rates of the two schools would likely be comparable.

### *Annual Pumping Cost Estimate – Using Design Flow Rate*

No.	Item Description	Quantity	Units	Unit Price	Total
1a	Annual Pumping Cost*	1,440,000	Gallons	\$0.50	\$720,000.00
	<b>Total Annual Pumping Cost</b>				<b>\$720,000.00</b>

\*Assumes school year is 40 weeks with the tank pumped out an average of 2.5 times per week for a total 100 times per year. 14,400 gallons\*100 times per year = 1,440,000 gallons per year

### *Annual Pumping Cost Estimate – Using Alcott Elementary Rate*

No.	Item Description	Quantity	Units	Unit Price	Total
1	Annual Pumping Cost*	740,000	Gallons	\$0.50	\$370,000.00
	<b>Total Annual Pumping Cost</b>				<b>\$370,000.00</b>

\*Assumes school year is 40 weeks with the tank pumped out an average of 2.5 times per week for a total 100 times per year. 7,400 gallons\*100 times per year = 740,000 gallons per year





April 12, 2011

Steve Hirschey

Page 4

Although the initial construction cost for the tank installation is relatively minor, the estimated range of annual pumping and disposal costs of between \$370,000 and \$720,000 per year make this alternative cost prohibitive.

### Summary

Based on the information provided above, there are no cost effective alternative technologies that will protect basic public health and the environment. Construction of a LOSS facility is not a viable alternative due to the potential groundwater impacts resulting from the highly permeable soils on site and the likely opposition by the Union Hill Water Association Board. In addition, installation of an onsite septic tank that is pumped out on a regular basis is not a cost effective solution because the annual pumping costs based on the estimated flows make this alternative cost prohibitive. Therefore, we recommend that a finding is made by the Utilities Technical Review Committee that no cost-effective alternative technologies are feasible and that an on-site sewer disposal system would not protect basic public health, safety, and the environment.

The Northeast Sammamish Sewer and Water District's engineering consultant, RH2 Engineering has provided a draft proposed amendment to their general sewer plan that includes providing sewer service to this parcel. This would meet the criteria described in KCC 13.24.134 (B) since King County can approve a sewer comprehensive plan amendment for sewer service expansion in a rural resource area.

We look forward to your response and are happy to answer any questions you have regarding this request for a modification of the sewer service area.

Sincerely,  
LPD Engineering, PLLC

A handwritten signature in blue ink, appearing to read 'L. Pfarr', is written over a faint, light blue circular stamp or watermark.

Laurie Pfarr, PE  
Principal

**OPERATED BY TANDEM SERVICE CORP., INC.** P.O. BOX 259, LAKE STEVENS, WA 98258

FRONTIER SEPTIC SERVICE 304-1093  
 COASTAL ENVIRONMENTAL 327-0390 426-1922 622-7070 588-0967 888-6518  
 LONG SEPTIC SERVICE 832-0550

EVERGREEN SANITATION, INC. 743-1957 327-1857  
 AAA SEPTIC SERVICE 362-6998  
 VANS SEPTIC SERVICE 483-7788  
 LYON SEPTIC SERVICE OR EASTSIDE SEPTIC SERVICE 682-1300

SANDHART SEPTIC SERVICE 353-7284 783-0560 604-9245  
 A SEPTIC PUMPER 1-800-773-5074 483-8414 333-1943 724-0832 632-9388 748-0994

SEPTIC SERVICES MAPLE VALLEY SEPTIC SVC. 422-0831 620-5265  
 EAST HILL SEPTIC SERVICE 322-7880  
 BRACQUAM SEPTIC SERVICE 271-9363  
 SHANCLAW SEPTIC SERVICE 723-5428  
 J.J. JACKSON SEPTIC SVC. 888-4884 847-4822 258-9242

COUNTY: King  
PAGE: 537  
GRID: F.2

PLEASE VISIT OUR WEBSITE AT WWW.EVERGREENSANITATION.COM FOR INFORMATION AND CUSTOMER SATISFACTION SURVEY

CUSTOMER NAME: LAKE Washington School DIST. RES.  COMM.  DATE: 11/18/09

ADDRESS: PO Box 97039 NEXT SERVICE DUE: 1/1

CITY: Redmond STATE: WA ZIP: 98073

SERVICE	AMOUNT
GALLON SEPTIC TANK - PUMPING	\$ 875.00
GALLON PUMP CHAMBER - PUMPING	
3500 GALLONS AT - DISPOSAL FEE	\$ 665.00
CHECKED BAFFLES - OK	
LEVEL HIGH BACK FLOW	
GRAVITY SYSTEM	
PUMP SYSTEM	
EFFLUENT FILTER	
ALL LIDS HAVE RISERS	
MAINTENANCE CONTRACT	
DIGGING	
BAFFLE INSTALL	
D/F VACUUM	
LABOR	
MATERIALS	
OPER. REPORT	
SUB TOTAL	\$ 1540.00
TAX	146.30
TOTAL	\$ 1686.30

PH #1 (206) 427-0490 PH #2 (425) 864-0781 3500

E-MAIL: Kelly Reggie

JOB AT: Bear Creek School  
8905 208th AVE. NE  
Redmond WA

CALLER IN BY:

COMMENTS: Pumped Floated  
Lift Station for release.

RECEIVED

NOV 18 2009

WORK APPROVED BY: PO: 209203 ACCOUNTING DEPT. (OK Charge)

INVOICE NO. 1096813 DRIVER: Justin

IT IS THE SOLE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE SUBSTANTIAL ACCESS TO THE SEPTIC SYSTEM COMPONENTS. THE CUSTOMER HEREBY GRANTS PERMISSION TO THE COMPANY, ITS REPRESENTATIVES

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FRONTIER SEPTIC SERVICE 304-1093  
 COASTAL ENVIRONMENTAL 327-0390 426-1922 622-7070 588-0967 888-6518  
 LONG SEPTIC SERVICE 832-0550

EVERGREEN SANITATION, INC. 743-1957 327-1857  
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 VANS SEPTIC SERVICE 483-7788  
 LYON SEPTIC SERVICE OR EASTSIDE SEPTIC SERVICE 682-1300

SANDHART SEPTIC SERVICE 353-7284 783-0560 604-9245  
 A SEPTIC PUMPER 1-800-773-5074 483-8414 333-1943 724-0832 632-9388 748-0994

SEPTIC SERVICES MAPLE VALLEY SEPTIC SVC. 422-0831 620-5265  
 EAST HILL SEPTIC SERVICE 322-7880  
 BRACQUAM SEPTIC SERVICE 271-9363  
 SHANCLAW SEPTIC SERVICE 723-5428  
 J.J. JACKSON SEPTIC SVC. 888-4884 847-4822 258-9242

COUNTY: KING  
PAGE: 537  
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CUSTOMER NAME: LAKE WASHINGTON SCHOOL DIST. RES.  COMM.  DATE: 11/15/09

ADDRESS: PO Box 97039 NEXT SERVICE DUE: 1/1

CITY: Redmond STATE: WA ZIP: 98073

SERVICE	AMOUNT
GALLON SEPTIC TANK - PUMPING	\$ 250.00
GALLON PUMP CHAMBER - PUMPING	
700 GALLONS AT - DISPOSAL FEE	\$ 190.00
CHECKED BAFFLES - OK	
LEVEL HIGH BACK FLOW	
GRAVITY SYSTEM	
PUMP SYSTEM	
EFFLUENT FILTER	
ALL LIDS HAVE RISERS	
MAINTENANCE CONTRACT	
DIGGING	
BAFFLE INSTALL	
D/F VACUUM	
LABOR	
MATERIALS	
OPER. REPORT	
SUB TOTAL	\$ 440.00
TAX	41.80
TOTAL	\$ 481.80

PH #1 425-864-0781 PH #2 425-964-0781 700

E-MAIL:

JOB AT: Dickerson Elm School  
7040 208th Ave NE  
Redmond WA, 98053

CALLER IN BY: Reggie

COMMENTS: Pump one 2000 Gallon  
Left station for release.

RECEIVED

NOV 18 2009

WORK APPROVED BY: PO # 0100020 OK CHARGE DRIVER: Brian Nalley

INVOICE NO. 1096785

IT IS THE SOLE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE SUBSTANTIAL ACCESS TO THE SEPTIC SYSTEM COMPONENTS. THE CUSTOMER HEREBY GRANTS PERMISSION TO THE COMPANY, ITS REPRESENTATIVES AND/OR ASSIGNS, TO ACCESS THE DESCRIBED PROPERTY AND GUARANTEES TO HOLD HARMLESS THE COMPANY, ITS REPRESENTATIVES AND/OR ASSIGNS, AGAINST ANY AND ALL DAMAGES TO PROPERTY WHICH INCLUDES, BUT IS NOT LIMITED TO, DRIVEWAYS, UTILITIES, LAWNS, TREES, SHRUBS, AND SEPTIC SYSTEM OR LIFT STATION STRUCTURAL INTEGRITY. A REASONABLE FEE OF \$500 WILL BE CHARGED BY ALL NEW CHECKS.

OPERATED BY TANDEM SERVICE CORP., INC. RECEIVED P.O. BOX 269, LAKE STEVENS, WA 98258

FRONTIER SEPTIC SERVICE 334-1093  
 COASTAL ENVIRONMENTAL 337-3300 488-1000 822-7070 888-0997 888-9318  
 LONG SEPTIC SERVICE 882-0550

EVERGREEN SANITATION, INC. 743-1887 337-1887  
 AAA SEPTIC SERVICE 343-8898  
 WAIS SEPTIC SERVICE 465-7788  
 LYON SEPTIC SERVICE OR EASTSIDE SEPTIC SERVICE 885-1900

SANMART SEPTIC SERVICE 363-7611 784-0900 503-245 784-0900  
 A SEPTIC PUMPER 1-800-778-4874

SEPTIC SERVICES MAPLE VALLEY SEPTIC SVC. 432-8831 810-4282 382-7888 371-3303 828-9425  
 EAST HILL SEPTIC SERVICE  
 ISAACQUAH SEPTIC SERVICE  
 RENTON SEPTIC SERVICE  
 BRUNGLAW SEPTIC SERVICE  
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ACCOUNTING DEPT. 0018-0215 2009

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CUSTOMER NAME: LAKE WASHINGTON SCHOOL DIST RES.  COMM.  DATE: 9/24/09

ADDRESS: PO Box 97039 NEXT SERVICE DUE 1/1

CITY: Redmond STATE: WA ZIP: 98073

PH #1 425-836-2260 PH #2 425-864-0781 10,000 GALLON SEPTIC TANK - PUMPING 2,500.00

E-MAIL: 425-836-6650 reggie GALLON PUMP CHAMBER - PUMPING

JOB AT: Evergreen Jr High 10,000 GALLONS AT - DISPOSAL FEE 10,000.00

6900 208 Ave NE  
Redmond WA 98053

CHECKED BAFFLES - OK  DIGGING

LEVEL HIGH BACK FLOW  BAFFLE INSTALL

GRAVITY SYSTEM  COORDINATOR OF VACUUM DATE 10-2-09

PUMP SYSTEM  MANAGER DATE

EFFLUENT FILTER  MATERIALS

ALL LIDS HAVE RISERS  OPER. REPORT

MAINTENANCE CONTRACT

OK CHARGE

WORK APPROVED BY:

TERMS: FULL PAYMENT UPON COMPLETION UNLESS PREVIOUS ARRANGEMENTS HAVE BEEN MADE.

INVOICE NO. 1095598 DRIVER BRIAN VALLEY

IT IS THE SOLE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE SUBSTANTIAL ACCESS TO THE SEPTIC SYSTEM COMPONENTS. THE CUSTOMER HEREBY GRANTS PERMISSION TO THE COMPANY, ITS REPRESENTATIVES AND/OR ASSIGNS, TO ACCESS THE DESCRIBED PROPERTY AND GUARANTEES TO HOLD HARMLESS THE COMPANY, ITS REPRESENTATIVES AND/OR ASSIGNS, AGAINST ANY AND ALL DAMAGES TO PROPERTY WHICH INCLUDES, BUT IS NOT LIMITED TO, DRIVEWAYS, UTILITIES, LAWNS, TREES, SHRUBS, AND SEPTIC SYSTEM OR LIFT STATION STRUCTURAL INTEGRITY. A REASONABLE FEE OF \$3500 WILL BE POSSED ON ALL NSF CHECKS. DIFFERENT RATE ON ANY UNPAID BALANCE WILL BE CHARGED AT 1.5% PER MONTH. CUSTOMER AGREES TO PAY REASONABLE BILL COLLECTION AND ATTORNEY FEES.

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FRONTIER SEPTIC SERVICE 334-1093  
 COASTAL ENVIRONMENTAL 337-3300 488-1000 822-7070 888-0997 888-9318  
 LONG SEPTIC SERVICE 882-0550

EVERGREEN SANITATION, INC. 743-1887 337-1887  
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 A SEPTIC PUMPER 1-800-778-4874

SEPTIC SERVICES MAPLE VALLEY SEPTIC SVC. 432-8831 810-4282 382-7888 371-3303 828-9425  
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CUSTOMER NAME: Lake Washington School District RES.  COMM.  DATE: 9/24/09

ADDRESS: PO BOX 97039 NEXT SERVICE DUE 1/1

CITY: Redmond STATE: WA ZIP: 98073

PH #1 425-836-2260 PH #2 425-864-0781 10,000 GALLON SEPTIC TANK - PUMPING 2,500.00

E-MAIL: School Reggie GALLON PUMP CHAMBER - PUMPING

JOB AT: Evergreen Jr High 10,000 GALLONS AT - DISPOSAL FEE 19,000.00

6900 208 AVE NE  
Redmond WA 98053

CHECKED BAFFLES - OK  DIGGING

LEVEL HIGH BACK FLOW  BAFFLE INSTALL

GRAVITY SYSTEM  D/F VACUUM

PUMP SYSTEM  LABOR

EFFLUENT FILTER  MATERIALS

ALL LIDS HAVE RISERS  OPER. REPORT

MAINTENANCE CONTRACT

OK Charge

WORK APPROVED BY:

TERMS: FULL PAYMENT UPON COMPLETION UNLESS PREVIOUS ARRANGEMENTS HAVE BEEN MADE.

INVOICE NO. 1095492 DRIVER [Signature]

IT IS THE SOLE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE SUBSTANTIAL ACCESS TO THE SEPTIC SYSTEM COMPONENTS. THE CUSTOMER HEREBY GRANTS PERMISSION TO THE COMPANY, ITS REPRESENTATIVES AND/OR ASSIGNS, TO ACCESS THE DESCRIBED PROPERTY AND GUARANTEES TO HOLD HARMLESS THE COMPANY, ITS REPRESENTATIVES AND/OR ASSIGNS, AGAINST ANY AND ALL DAMAGES TO PROPERTY WHICH INCLUDES, BUT IS NOT LIMITED TO, DRIVEWAYS, UTILITIES, LAWNS, TREES, SHRUBS, AND SEPTIC SYSTEM OR LIFT STATION STRUCTURAL INTEGRITY. A REASONABLE FEE OF \$3500 WILL BE POSSED ON ALL NSF CHECKS. DIFFERENT RATE ON ANY UNPAID BALANCE WILL BE CHARGED AT 1.5% PER MONTH. CUSTOMER AGREES TO PAY REASONABLE BILL COLLECTION AND ATTORNEY FEES.

OPERATED BY TANDEM SERVICE CORP., INC. P.O. BOX 259, LAKE STEVENS, WA 98258

FRONTIER SEPTIC SERVICE 394-1093  
 COASTAL ENVIRONMENTAL 337-3309 485-1000 822-7070 825-0987 828-9718  
 LONG SEPTIC SERVICE 872-0550

EVERGREEN SANITATION, INC. 743-1887 337-1857 353-7624 783-4560 988-0243  
 AAA SEPTIC SERVICE 642-9558  
 VARS SEPTIC SERVICE 426-7788  
 LYON SEPTIC SERVICE  
 EASTSIDE SEPTIC SERVICE 665-1300

SAN-MART SEPTIC SERVICE 353-7624 783-4560 988-0243  
 A SEPTIC PUMPER 1-800-773-6874 428-8444 338-4843 784-0832 692-0008 718-0051  
 J.J. JACKSON SEPTIC SVC. 888-4534 847-4822 252-0242

SEPTIC SERVICES  
 MAPLE VALLEY SEPTIC SVC. 432-0831 630-0282 292-7884  
 ISSAQUAH SEPTIC SERVICE 271-4308  
 RENTON SEPTIC SERVICE  
 ENUKWILAY SEPTIC SERVICE 428-5485

COUNTY K PAGE 537 GRID H-5

PLEASE VISIT OUR WEBSITE AT WWW.EVERGREENSANITATION.COM FOR INFORMATION AND CUSTOMER SATISFACTION SURVEY

ATTN: Accounts payable

CUSTOMER NAME: Lake Washington School Dist RES.  COMM.  DATE: 11/11/09

ADDRESS: PO Box 97039 STATE: WA ZIP: 98073

CITY: Redmond NEXT SERVICE DUE: 1/1

PH #1 425-864-0781 PH #2 6000 GALLON SEPTIC TANK - PUMPING AMOUNT 1500.00

E-MAIL: GALLON PUMP CHAMBER - PUMPING

JOB AT: Dickinson, Elem. School. 6000 GALLONS AT - DISPOSAL FEE 1140.00

10410 208th AVE NE DIGGING

Redmond WA 98053 BAFFLE INSTALL

CALLER IN BY: NOV 18 2009 D/F VACUUM

COMMENTS: Pumped 1x 1500 gallon LABOR 150.00

septic tanks. Mat 24" MATERIALS

studs 36" Back Flush 10 times. OPER. REPORT

DUO TO HEAVY MATT, EXTRA CHARGE SUB TOTAL 2790.00

WORK APPROVED BY: PO: 209203 TAX 265.05

TERMS: FULL PAYMENT UPON COMPLETION UNLESS PREVIOUS ARRANGEMENTS HAVE BEEN MADE. DRIVER Siarhei Shaban TOTAL 3055.05

INVOICE NO. 1096724

OPERATED BY TANDEM SERVICE CORP., INC. P.O. BOX 259, LAKE STEVENS, WA 98258

FRONTIER SEPTIC SERVICE 394-1093  
 COASTAL ENVIRONMENTAL 337-3309 485-1000 822-7070 825-0987 828-9718  
 LONG SEPTIC SERVICE 872-0550

EVERGREEN SANITATION, INC. 743-1887 337-1857 353-7624 783-4560 988-0243  
 AAA SEPTIC SERVICE 642-9558  
 VARS SEPTIC SERVICE 426-7788  
 LYON SEPTIC SERVICE  
 EASTSIDE SEPTIC SERVICE 665-1300

SAN-MART SEPTIC SERVICE 353-7624 783-4560 988-0243  
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SEPTIC SERVICES  
 MAPLE VALLEY SEPTIC SVC. 432-0831 630-0282 292-7884  
 ISSAQUAH SEPTIC SERVICE 271-4308  
 RENTON SEPTIC SERVICE  
 ENUKWILAY SEPTIC SERVICE 428-5485

COUNTY K PAGE 537 GRID H-3

PLEASE VISIT OUR WEBSITE AT WWW.EVERGREENSANITATION.COM FOR INFORMATION AND CUSTOMER SATISFACTION SURVEY

CUSTOMER NAME: Lake Washington School Dist RES.  COMM.  DATE: 11/10/09

ADDRESS: PO Box 97039 STATE: WA ZIP: 98073

CITY: Redmond NEXT SERVICE DUE: 1/1

PH #1 425-882-5103 PH #2 206-427-0490 6000 GALLON SEPTIC TANK - PUMPING AMOUNT 1500.00

E-MAIL: GALLON PUMP CHAMBER - PUMPING

JOB AT: Bear Creek School 6000 GALLONS AT - DISPOSAL FEE 1140.00

8905 208th AVE NE DIGGING

Redmond WA 98053 BAFFLE INSTALL

CALLER IN BY: Kelly 206-427-0490 D/F VACUUM

COMMENTS: Pumped 6000 gallon LABOR

from Lift Station MATERIALS

WORK APPROVED BY: NOV 18 2009 OPER. REPORT

TERMS: FULL PAYMENT UPON COMPLETION UNLESS PREVIOUS ARRANGEMENTS HAVE BEEN MADE. DRIVER Siarhei Shaban SUB TOTAL 2640.00

INVOICE NO. 1096720 ACCOUNTING DEPT TAX 150.80

IT IS THE SOLE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE SUBSTANTIAL ACCESS TO THE SEPTIC SYSTEM COMPONENTS. THE CUSTOMER HEREBY GRANTS PERMISSION TO THE COMPANY, ITS REPRESENTATIVES AND/OR AGENTS, TO ACCESS THE DESCRIBED PROPERTY AND GUARANTEES TO HOLD HARMLESS THE COMPANY, ITS REPRESENTATIVES AND/OR AGENTS, AGAINST ANY AND ALL DAMAGES TO PROPERTY WHICH INCLUDE, BUT IS NOT LIMITED TO, DRIVEWAYS, UTILITIES, LAWNS, TREES, BUSHES, AND SEPTIC SYSTEM OR LIFT STATION STRUCTURAL INTEGRITY. A REASONABLE FEE OR FEE WILL BE CHARGED ON ALL REP CHECKS. THE FEE RATE FOR ANY LIFT STATION WILL BE COMPUTED AT 1.25 PER HOUR. CUSTOMER ACCESS TO PAY REASONABLE COLLECTION AND ATTORNEY FEES. TOTAL 2890.80

OPERATED BY TANDEM SERVICE CORP., INC. P.O. BOX 259, LAKE STEVENS, WA 98258

FRONTIER SEPTIC SERVICE 334-1053  
 COASTAL ENVIRONMENTAL 337-3399 685-1000 622-7070 688-0187 688-9318  
 LONG SEPTIC SERVICE 822-0830

EVERGREEN SANITATION, INC. 743-1857 337-1887  
 AAA SEPTIC SERVICE 382-9998  
 WIND SEPTIC SERVICE 415-7768  
 LYON SEPTIC SERVICE OR EASTSIDE SEPTIC SERVICE 385-1100

BAN/MART SEPTIC SERVICE 352-7824 783-0280 688-0245  
 A SEPTIC PUMPER 3-806-773-8874 882-8444 852-8904 336-1643 745-0984 734-0832

SEPTIC SERVICES MAPLE VALLEY SEPTIC SVCS. 432-0891  
 EAST HILL SEPTIC SERVICE 846-8888  
 REBACUM SEPTIC SERVICE 393-7988  
 RENTON SEPTIC SERVICE 271-3303  
 BRUNCLAW SEPTIC SERVICE 822-6428  
 J.J. JACKSON SEPTIC SVCS. 888-4884 847-8882 286-8243

334-9696 Tasha

PLEASE VISIT OUR WEBSITE AT WWW.EVERGREENSANITATION.COM FOR INFORMATION AND CUSTOMER SATISFACTION SURVEY

CUSTOMER NAME: LAKE WASHINGTON SCHOOL DIST. RES.  COMM.  DATE: 11/17/09

ADDRESS: PO Box 97039 NEXT SERVICE DUE 1 1

CITY: Redmond STATE: WA ZIP: 98073-9739 SERVICE AMOUNT

PH #1 425-864-0767 PH #2 206-427-0490 500 GALLON SEPTIC TANK - PUMPING 250.00

E-MAIL: 500 GALLON PUMP CHAMBER - PUMPING 95.00

JOB AT: BEAR CREEK SCHOOL 500 GALLONS AT - DISPOSAL FEE. 95.00

8905 NORTH AVENUE  
REDMOND WA, 98053

CALLED IN BY:

COMMENTS: PUMP ONE 4,500  
LEFT STATION - ONLY  
PUMP 500 GALLONS

CHECKED BAFFLES - OK		DIGGING	
LEVEL HIGH BACK FLOW		BAFFLE INSTALL	
GRAVITY SYSTEM		D/F VACUUM	
PUMP SYSTEM		LABOR	
EFFLUENT FILTER		MATERIALS	
ALL LIDS HAVE RISERS		OPER. REPORT	
MAINTENANCE CONTRACT			

RECEIVED  
NOV 9 0 2009  
OK CHAROC ✓

WORK APPROVED BY:

TERMS: FULL PAYMENT UPON COMPLETION UNLESS PREVIOUS ARRANGEMENTS OTHERWISE MADE.

ACCOUNTING DEPT.

INVOICE NO. 1096815 DRIVER Brian Nalley / Larry

IT IS THE SOLE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE SUBSTANTIAL ACCESS TO THE SEPTIC SYSTEM COMPONENTS. THE CUSTOMER HEREBY GRANTS PERMISSION TO THE COMPANY, ITS REPRESENTATIVES AND/OR ASSIGNS, TO ACCESS THE DESCRIBED PROPERTY AND GUARANTEES TO HOLD HARMLESS THE COMPANY, ITS REPRESENTATIVES AND/OR ASSIGNS, AGAINST ANY AND ALL DAMAGES TO PROPERTY WHICH INCLUDES, BUT IS NOT LIMITED TO, DRIVEWAYS, UTILITIES, LAWNS, TREES, SHRUBS, AND SEPTIC SYSTEM OR LIFT STATION STRUCTURAL INTEGRITY. A REASONABLE FEE OF \$35.00 WILL BE IMPOSED ON ALL NSF CHECKS. INTEREST RATE ON ANY UNPAID BALANCE WILL BE COMPUTED AT 1.25% PER MONTH. CUSTOMER AGREES TO PAY REASONABLE COLLECTION AND ATTORNEY FEES.

COORDINATOR  
MANAGER  
DIRECTOR

DATE 12-3-09

