



**CITY OF KIRKLAND**  
**Department of Public Works**  
123 Fifth Avenue, Kirkland, WA 98033 425.587.3800  
www.kirklandwa.gov

## MEMORANDUM

**To:** Kurt Triplett, City Manager

**From:** Dave Snider, P.E., Interim Capital Projects Manager  
Ray Steiger, P.E., Public Works Director

**Date:** July 7, 2011

**Subject:** 2011 STREET PRESERVATION PROGRAM (PHASE II SLURRY SEAL PROJECT)  
AWARD CONTRACT

### **RECOMMENDATION:**

It is recommended that City Council award the construction contract for the Phase II Slurry Seal Project, of the Annual Street Preservation Program, to Blackline, Inc., of Spokane, Washington, in the amount of \$182,195.15.

### **BACKGROUND DISCUSSION:**

The Slurry Seal Project is the Phase II element of the Annual Street Preservation Program. It involves the application of a thin layer of liquid asphalt that has been mixed with a fine aggregate. The "slurry" is then placed on low-volume residential streets where light to moderate surface wear is occurring. Slurry seal is a versatile and cost effective way to extend the life of the City's residential streets where the Pavement Condition Index (PCI) range is approximately 56 to 85. It protects the asphalt surface from the effects of aging while improving the existing PCI; the 2011 Project will seal approximately 13 lane miles of roadway in seven areas of the City (Attachment A).

Phase I of the Annual Street Preservation Program, the Overlay Project, was awarded at the June 21<sup>st</sup> City Council meeting; construction on the Phase I Project will begin on July 11, 2011.

With an engineer's estimate of \$240,000, the first advertisement for the Slurry Seal Project was published on June 15<sup>th</sup>; 4 bids were received on June 30, 2011 with Blackline Inc., being the lowest responsive bidder, as shown below:



<b>CONTRACTOR</b>	<b>TOTAL BID</b>
<b>Blackline, Inc</b>	<b>\$182,195.15</b>
Asphalt Maintenance Associates, Inc.	\$231,609.52
<i>Engineer's Estimate</i>	<i>\$240,000.00</i>
Valley Slurry Seal	\$299,053.94
Intermountain Slurry Seal	\$312,312.00

The Annual Street Preservation Program is included in the Capital Improvement Program (CIP) with a yearly budget of \$2,500,000. When the 2011 – 2016 CIP was approved by City Council, it was anticipated that \$375,000 of the total annual budget would be available through the creation of a Transportation Benefit District (TBD). As per City Council's recommendation in the fall of 2010, the TBD was tabled and the anticipated funding has been removed from the 2011 Program budget. However, in October, 2010, City Council approved a new Solid Waste Utility rate that includes a contribution of \$300,000 to the Street Preservation Program to account for pavement damage caused by garbage and recycle collection trucks on City streets. The impact of these two funding modifications establishes the Project's base budget at \$2,425,000. At their June 21<sup>st</sup> meeting, Council was also informed of mitigation payments received from Northshore Utilities District (NUD) and Puget Sound Energy (PSE) in the amounts of \$126,537 and \$29,500, respectively, for utility work that occurred on two of the 2011 Overlay streets. When combined with City Council approved carry-overs from the 2009 and 2010 Street Preservation Programs of \$108,000, the addition of these two external contributions to the base budget brings the 2011 Program budget to \$2,689,037 (Attachment B).

In 2010, the average cost per square yard of slurry seal was \$1.72, and the low bid was \$1.50 (Attachment C). Although the low bid received in 2011 is \$1.45, the average cost per square yard in 2011 has increased slightly to \$1.81, representing an approximate 6% increase in average costs between 2010 and 2011. This year's average cost increase is slightly higher than the average annual cost increase of approximately 4 % per year since 2002 when the City first began the slurry seal program.

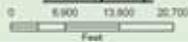
Construction of this Project is extremely weather and temperature dependent and will begin in early August; the construction duration will be approximately one month. In advance of the work, Public Works staff will supply an informational brochure to all property owners living along the planned Slurry Seal routes (Attachment D). The brochure describes the City's Street Preservation Program together with important facts on the Slurry Seal treatment. The information in this brochure and schedule updates will also be incorporated into the Public Works section of the City's web site. In addition, door-hanger notices will be distributed to all adjacent homes and business at least 24 hours prior to Slurry Seal applications.

Attachments: (3)

# Street Preservation Project - 2011 Slurry Seal Plan



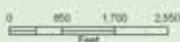
Vicinity Map



Note: This map does not include streets to be treated with other maintenance techniques (i.e. Hot Mix Overlay, Crack Seal, etc.).

**Legend**

- 2011 Slurry Seal Streets
- Street
- Neighborhoods:**
  - Bridle Trails
  - Central Houghton
  - Everest
  - Fin Hill
  - Highlands
  - Kingsgate
  - Lakeview
  - Market
  - Miss Bay
  - North
  - North Juanita
  - North Rose Hill
  - South Juanita
  - South Rose Hill
  - South Juanita
  - South Rose Hill
  - Totem Lake
  - Kirkland City Limits (Polygon)
  - City Limits



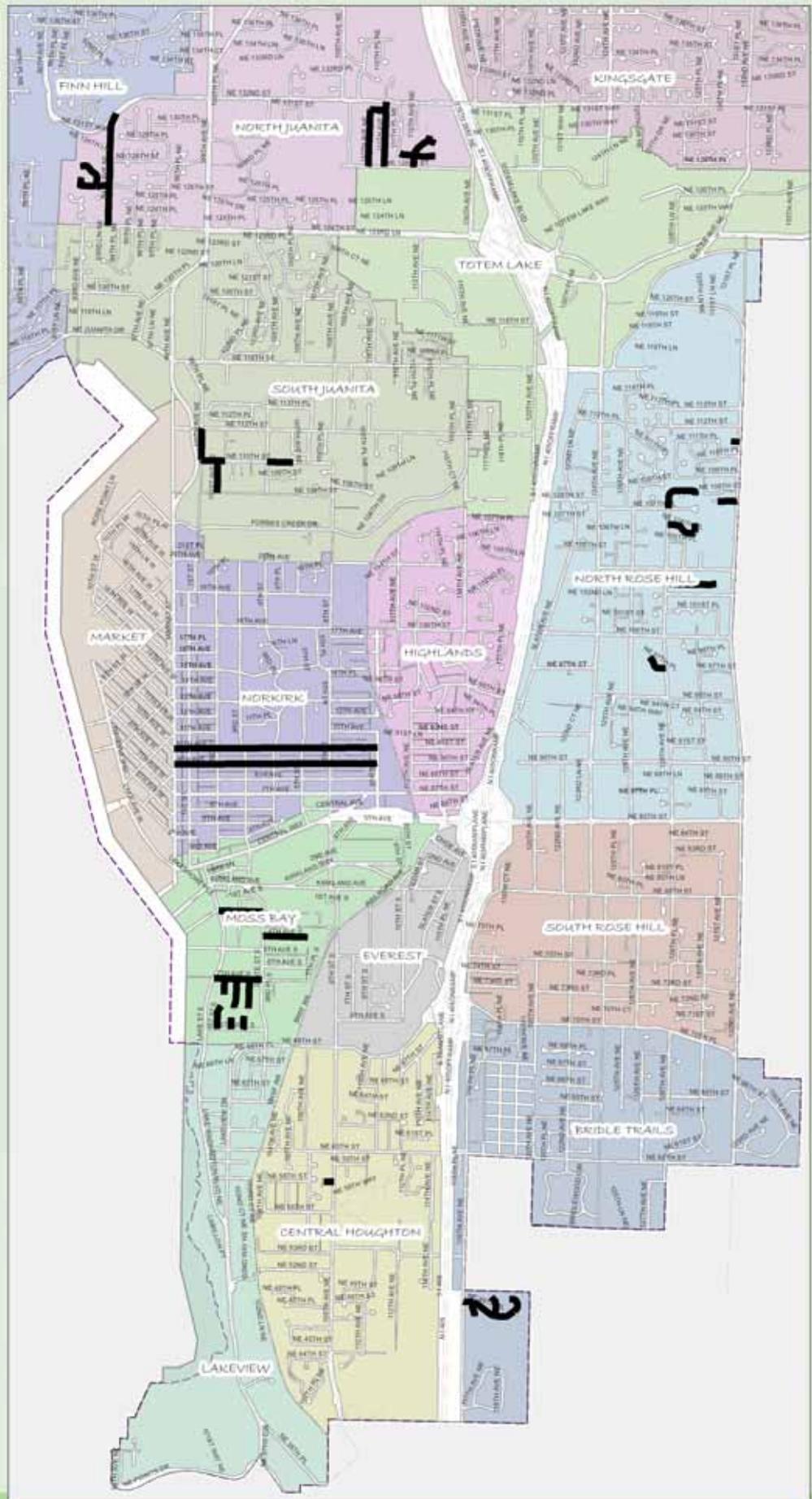
CITY OF KIRKLAND  
DEPARTMENT OF PUBLIC WORKS



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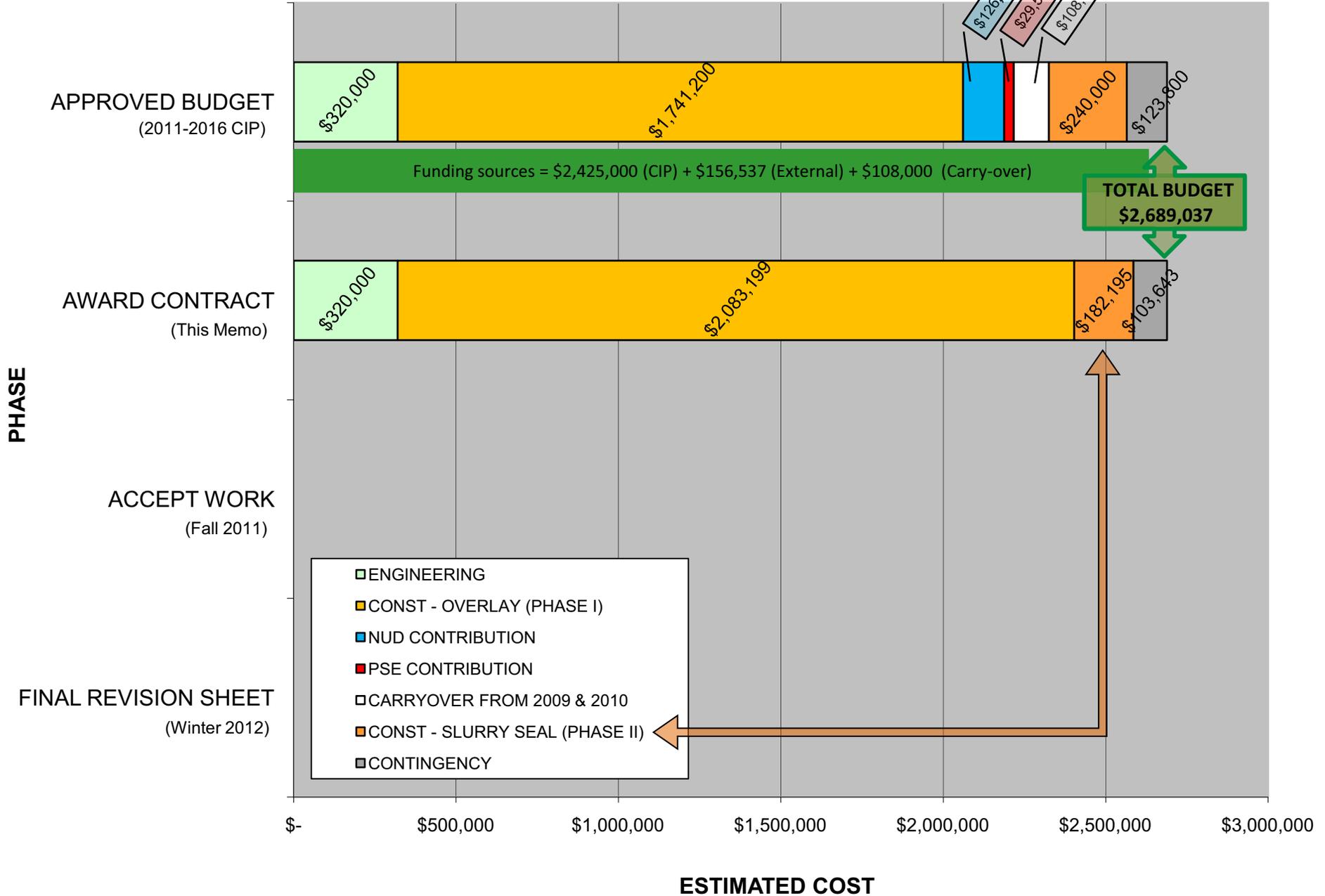
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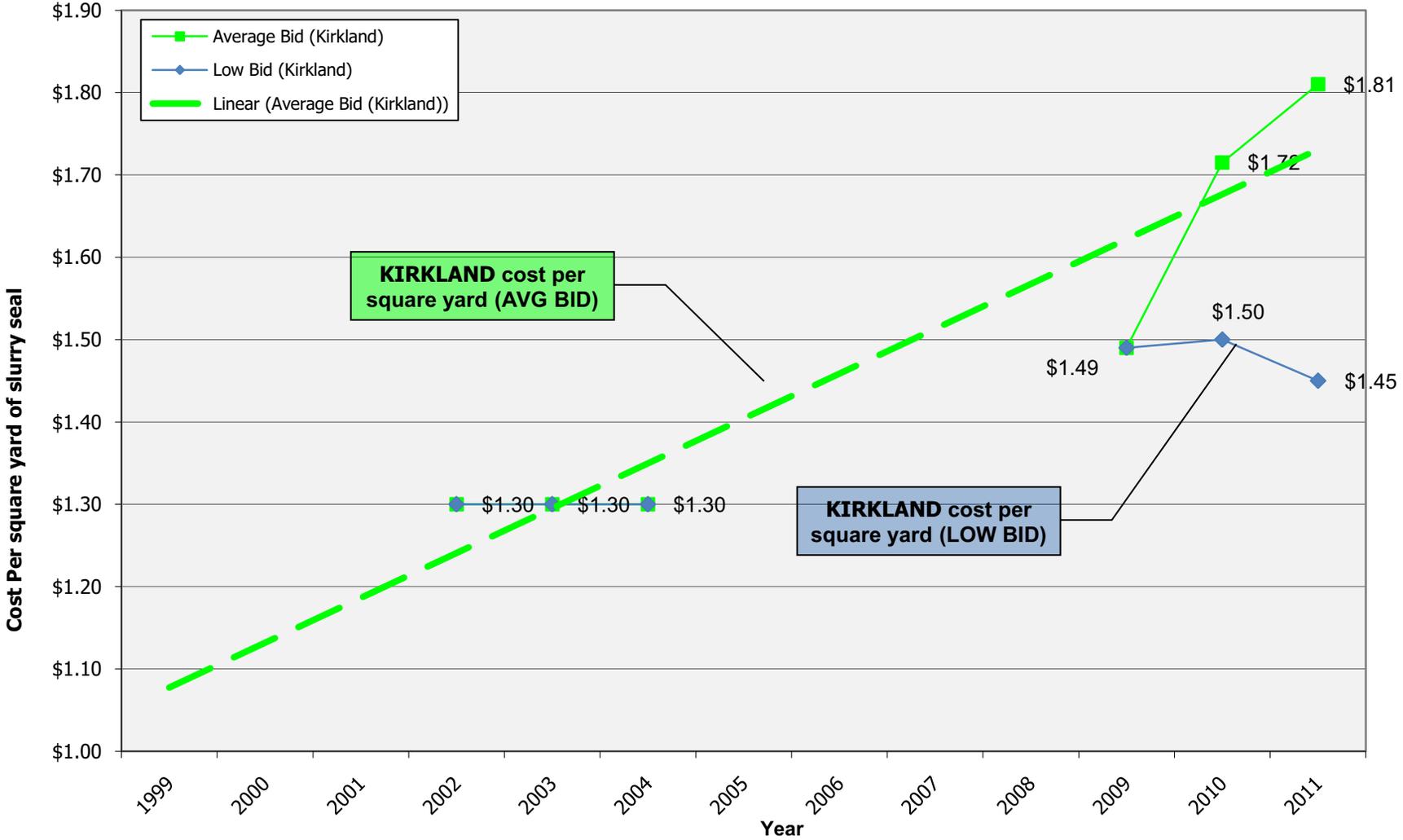


# 2011 SLURRY SEAL PROJECT (ST-1106)

## Project Budget Report



### Kirkland Slurry Seal Project Cost Comparison





**City of Kirkland,  
Public Works Department**

Constructing and maintaining the public infrastructure to ensure efficient and reliable public utilities to Kirkland residents.

**Slurry Seal**

The City of Kirkland maintains 593 lane miles of roadway within the City limits. Slurry sealing is one of many effective tools in the City's preventative maintenance program and is typically applied to streets that are in fair to good condition. Slurry seals prolong pavement life by applying a thick, cold liquid mixture of asphalt and rock to the existing pavement surface. In general a Slurry Seal extends the pavement life by 5 to 10 years. Slurry seals are less expensive than typical asphalt overlays, but take longer to thoroughly cure (or dry) before the street can be reopened to traffic.

**Slurry Seal  
Preventative Maintenance**



**For More Information:**

**Construction Hotline**  
425-587-3838

Andrea Dasovich, PE  
City of Kirkland, Public Works Department  
Project Engineer  
Phone: 425-587-3827  
adasovich@kirklandwa.gov

Visit our web site for more information:  
[www.kirklandwa.gov/depart/Public\\_Works](http://www.kirklandwa.gov/depart/Public_Works)



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**City of Kirkland**  
Public Works Department

*Caring for your  
infrastructure to keep  
Kirkland healthy, safe and  
vibrant.*

# The City of Kirkland's Slurry Seal Program:

A key part of the City's Annual Street Preservation Program designed to maximize the life of your neighborhood streets. Funding for this project is through the City's Capital Improvement Program.

## Phase One

City crews seal cracks in the roads and repair small areas of damaged pavement.

Residents living on streets to be slurry sealed are asked to prune back their vegetation to allow maintenance vehicles to get next to the curb. All low growing plant material should be pruned back behind the curb, and all trees are required to be trimmed to provide a 14-foot vertical clearance from the road surface.

**No road closures will occur in this phase, however temporary delays might occur.**



## Phase Two

As the date of the actual slurry seal application gets closer, the existing pavement surface will be swept and all vegetation will be removed. Any final repairs that need to be made to the pavement surface prior to the slurry seal application will be made at this time. **No road closures will occur in this phase, however temporary delays might occur.**

## Phase Three

You will receive at least 24-hour advance notice of when the slurry seal is to be applied to the prepped roads by the contractor. Please remove all cars, recreational vehicles, and personal items and equipment from the road and refrain from watering your lawn. **This is a one day process that requires a one-day road closure.** When the slurry seal is first applied, the material is brown and sticky. To prevent damage to the fresh slurry and avoid tracking, cars, bikes, people, and pets must be kept off the street until the seal is cured and the street is reopened. After the curing process is completed, the barricades and signs will be removed showing the road is reopened.

## Phase Four

After the surface has dried it is normal for loose sand to shed from the surface. The Contractor is scheduled to sweep the streets approximately one week and then again three weeks after the slurry seal application.

*Thank you in advance for your patience and cooperation as we maintain your neighborhood streets.*



Caring for your infrastructure to keep Kirkland healthy, safe and vibrant

All information on the slurry seal process can be made available in alternative formats including language interpretation and American Sign Language (ASL), upon request by calling 425-587-3011. TTY/TTD (425) 587-3111



To receive updates via email on City and Neighborhood news, please subscribe to the Neighborhood E-Bulletin at [www.kirklandwa.gov/EBulletin.htm](http://www.kirklandwa.gov/EBulletin.htm)