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**EXHIBIT JRS-3**

**Aquifer Supply Replacement – Alternative II  
Connection to the City of Everett Line No. 5**

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**Prepared For:** Prefiled Testimony of Jon R. Stack, ST Engineering, Inc.  
Regarding the proposed Cross Cascade Pipeline by Olympic Pipeline

**Sponsor:** Cross Valley Water District

**Date:** February 12, 1999

**Issue:** Aquifer Supply Replacement – Alternative II  
Connection to the City of Everett Line No. 5

**Page 1:** Cost Estimate: Estimated Cost to Replace Aquifer Supply with Water  
Supply from the City of Everett Connection

**Page 2:** Exhibit Map: Cross Valley Water District  
Aquifer Supply Replacement – Alternative II

## EXHIBIT JRS-3

### Aquifer Supply Replacement – Alternative II Connection to the City of Everett Line No.5

Prepared For: Prefiled testimony of Jon R. Stack, S.T. Engineering  
Regarding the proposed Cross Cascade Pipeline by Olympic Pipeline

Sponsor: Cross Valley Water District

Date: February 12, 1999

Issue: Aquifer Supply Replacement – Alternative II  
Cross Valley Water District Connection to the City of Everett Line No.5

### Estimated Cost to Replace Aquifer Supply with Water Supply from the City of Everett Connection:

<u>Item</u>	<u>Description</u>	<u>Quantity/Units</u>		<u>Unit Cost</u>	<u>Amount</u>
1.	18" D.I. Pipe, Cl.52	57,300	LF	\$75	\$ 2,574,000
2.	12" D.I. Pipe, Cl. 52	25,000	LF	\$40	\$ 1,000,000
3.	Snohomish River Crossing (Existing Bridge)	All	L.S.	L.S.	\$ 500,000
3.	Pressure Reducing Valves	3	EA	\$35,000	\$ 105,000
4.	Connections to Existing System	6	EA	\$ 3,500	\$ 21,000
5.	Booster Pump Station with Generator	All	L.S.	L.S.	\$ 500,000
6.	10.2 MG Steel Reservoir	All	L.S.	L.S.	\$ 4,500,000
7.	Misc. Unlisted Items	All	L.S.	L.S.	\$ 2,740,000
8.	Reservoir/Pump Station Site	All	L.S.	L.S.	\$ 150,000
	Subtotal				\$13,813,500
	Sales Tax @ 7.6%				\$ 1,050,000
	Permits, Engineering, Surveying and R.O.W at 25%				\$ 3,453,500
	Contingency @ 15%				\$ 2,748,000
	<b>Total Estimated Project Cost (1998 Dollars)</b>				<b><u>\$21,065,000</u></b>

See the attached map for approximate location of proposed improvements.