



UTILITIES COMMITTEE

MARCH 11, 2016

4:00 P.M.

COUNCIL CHAMBERS

AMENDED

1. **NORTH THURSTON PUBLIC SCHOOLS MARVIN ROAD ANNEXATION**
RYAN ANDREWS, PLANNING MANAGER
(STAFF REPORT ATTACHED)

2. **INTERLOCAL AGREEMENT FOR STORM AND SURFACE WATER MONITORING**
DOUG CHRISTENSON, UTILITIES CIVIL ENGINEER
(STAFF REPORT ATTACHED)



UTILITIES COMMITTEE
March 11, 2016

SUBJECT: North Thurston Public Schools Marvin Road Annexation

RECOMMENDATION: Recommend to the full council that a motion be approved to proceed with the proposed North Thurston Marvin Road annexation proposal that includes the following provisions:

- 1) Authorize the applicants to circulate a petition and gather signatures of property owners representing at least 60% of the assessed value of the annexation property demonstrating their consent to annex;
- 2) Require the City's property (assessor's parcel no. 11934100100) also be included within the boundary of the area to be considered for annexation;
- 3) Require the assumption of all or of any portion of existing City indebtedness by the area to be annexed; and
- 4) Waive the requirement for completion of an annexation study in accordance with the City's annexation policies prior to adoption of an ordinance to formally annex the area or make application to the Boundary Review Board.

STAFF CONTACT: Scott Spence, City Manager *SS*
Rick Walk, Community Development Director *RW*
Ryan Andrews, Planning Manager *RA*

ORIGINATED BY: Community Development Department

- ATTACHMENTS:**
1. [Notice of Intent to Commence Annexation](#)
 2. [Existing Zoning](#)
 3. [Aerial Photo](#)
 4. [Existing Sewer Lines](#)
 5. [Existing Water Lines and Water Service Areas](#)

FISCAL NOTE: None.

PRIOR REVIEW: None.

BACKGROUND:

The City has received a notice of intent to commence annexation proceedings filed by North Thurston Public Schools. The filing of the notice is the first step in the annexation process under the petition method (RCW 35A.14.120), which requires a petition filed by property owners representing a minimum of 10% of the valuation of the area proposed for annexation. The City has verified that the ownership does comprise a minimum of more than 10% of the assessed valuation for general taxation purposes of the properties for which annexation is requested.

As a result of the petition, the Utilities Committee will review the annexation proposal to verify that the City can effectively provide utility service to the proposed annexation area. Additionally, the Committee will review the boundaries of the annexation area for any recommended modifications.

Proposed Annexation Area

The area proposed for annexation is located in the Hawks Prairie Planning Area and within the Lacey Urban Growth Area west of Marvin Road NE, east of Legacy Drive NE, north of 41st Avenue NE, and south of 44th Avenue NE. The area includes 72.07 acres in two separate tax parcels. Although, the request is just for the parcel owned by North Thurston Public Schools (NTPS), the city-owned parcel to the southeast would also be a part of the application for the purposes of creating logical boundaries and elimination of unincorporated islands.

The NTPS parcel is 69.17 acres in size and is planned for a future high school and middle school complex. The second parcel is 2.9 acres in size and is owned by the City of Lacey for purposes of siting a future well. The 2015-2016 assessed value of these parcels is \$512,150 of which the NTPS ownership represents \$401,850, or approximately 78 percent of the assessed valuation. Since both properties are owned by government entities, both are exempt from the payment of property taxes.

The area proposed to be annexed is undeveloped and is primarily forested with second and third-growth Douglas firs. There are very few identified critical areas in the area proposed for annexation with no identified water bodies or steep slopes. The NTPS property has been identified as containing areas of wetland; however, at this time, the amount is unknown. Upon development of the property, NTPS will be required to submit a wetland delineation report and comply with the appropriate provisions related to wetland protection.

The area around the southeast corner of the proposed annexation area is within a critical aquifer recharge area and within the 1 year time of travel zone associated with the City's well at the property at the southeast corner of the intersection of Marvin Road NE and 41st Avenue NE. As properties develop in this area, certain land use restrictions apply to protect the aquifer.

Both properties are zoned Open Space Institutional. The purpose of the Open Space Institutional zone is to allow government and quasi-government uses including schools, museums, churches, and community centers as well as a variety of open space uses including city parks and passive recreational uses. If the annexation is approved, the properties will continue with their existing Open Space Institutional zoning.

Annexation Boundary

The area proposed for annexation includes the properties in the North Thurston Public Schools ownership as well as the City of Lacey's adjacent property to the southeast. The areas

immediately surrounding the properties to the south, west, and north are located in rural Thurston County and are not eligible for annexation as they are located outside of the Urban Growth Area. The subject properties were recently added to the Urban Growth Area in 2013.

This boundary, as proposed, would connect to the current city limits to the west of the Edgewater subdivision across Marvin Road NE. This configuration is a logical extension and would not create any islands or illogical boundaries. The City Council does have the opportunity to modify any boundaries prior to the applicant proceeding with the annexation; however, there are no other surrounding properties eligible for annexation.

Utilities

The properties are located outside of the City of Lacey's water service area and are served by Thurston County PUD #1 within the Prairie Ridge water service area. As currently configured, any water service to these properties would be served by PUD water unless a request was made to and approved by the PUD to remove the properties from the service area. Should that occur, the properties would be added to the City's water service area with the closest point of connection to the City's water service at the intersection of 41st Avenue NE and Marvin Road NE (see attachment 5).

City of Lacey sewer service in the area is relatively limited but is available nearby with the nearest connection at the intersection of 41st Avenue NE (see attachment 4). Upon development of the properties within the annexation area, sewer service would be required to be extended.

The area is also served by private utilities including Puget Sound Energy and Comcast. No issues are expected concerning provision of these utilities to the area.

Taxes, Fees, and Services

Typically, as part of an annexation proposal, a full annexation study is performed to outline all issues associated with the annexation including taxes and fees. However, with these properties, no tax revenue is gained through the proposed annexation. It is the City Council's option to require an annexation study; however, staff believes that in this case there is little to be gained by completing a study. The one item for additional discussion would be police service needed to serve the future high school/middle school site. However, this can be coordinated by the staff through discussions with the police department.

The annexation area is currently served by Lacey Fire District 8. As with the previous Hill-Betti Annexation, this property would become part of Lacey Fire District 3 upon annexation in to the City of Lacey. Coordination will need to occur between the City and the Fire Districts to ensure that this is communicated and that boundaries are amended concurrently with the annexation.

Process

The applicant has submitted a notice of intent to commence annexation using the petition method of annexation (RCW 35A.14.120). Using the petition method, property owners representing a minimum of 10 percent of the assessed valuation of the property proposed for annexation are required to submit the notice. After filing the petition, the City Council must pass a motion notifying the petitioners of its approval, rejection, or modification of the annexation area's geographical boundaries. Prior to full City Council review of the annexation, the City Council Utility Committee reviews the application for the provision of utilities. If the Council votes to

approve the petition, then the applicant moves forward on obtaining a petition from a total of 60% of the assessed valuation of the area. Once the City receives the 60% petition, the City can move forward on annexation proceedings.

Recommendation

The Utilities Committee will review the annexation request under the 60% petition method and is requested to make a recommendation that the Council pass a motion indicating the following:

- 1) Authorize the applicants to circulate a petition and gather signatures of property owners representing at least 60% of the assessed value of the annexation property demonstrating their consent to annex;
- 2) Require the City's property (assessor's parcel no. 11934100100) also be included within the boundary of the area to be considered for annexation;
- 3) Require the assumption of all or of any portion of existing City indebtedness by the area to be annexed;
- 4) Waive the requirement for completion of an annexation study in accordance with the City's annexation policies prior to adoption of an ordinance to formally annex the area or make application to the Boundary Review Board.

August 3, 2015

Katherine C. Wax
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F +1.206.359.4041

Lacey City Council
City of Lacey
420 College Street SE
Lacey, WA 98503

Re: Notice of Intent to Commence Annexation Proceedings

Dear Mayor, Deputy Mayor, and Council members:

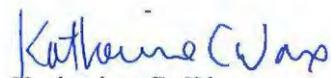
The undersigned, as counsel to North Thurston Public Schools (the "District"), respectfully requests the City of Lacey ("City") to commence annexation proceedings for the property indicated on the attached map. The property, which is identified by the Thurston County assessor as Parcel Number 11934100000, includes 69.17 acres and is owned solely by the District. (Note, however, that the property at the intersection of Marvin Road NE and 40th Court NE was subdivided from the District's property and purchased by the City for a municipal well site.) The property does not have an assigned assessed value because it is owned by the District, which is exempt from property taxes pursuant to RCW 84.36.010.

The property is located adjacent to the west of the City boundary on Marvin Road NE and has been designated by Thurston County as lying within the Urban Growth Area. The property has been identified by the District as the site of a future school campus.

We respectfully request the Council to set a date, not later than sixty days after the filing of this request, for a meeting with the District to determine whether the City will accept, reject, or geographically modify the proposed annexation; whether it shall require the simultaneous adoption of a proposed zoning regulation; and whether it shall require the assumption of all or of any portion of existing city indebtedness by the area to be annexed.

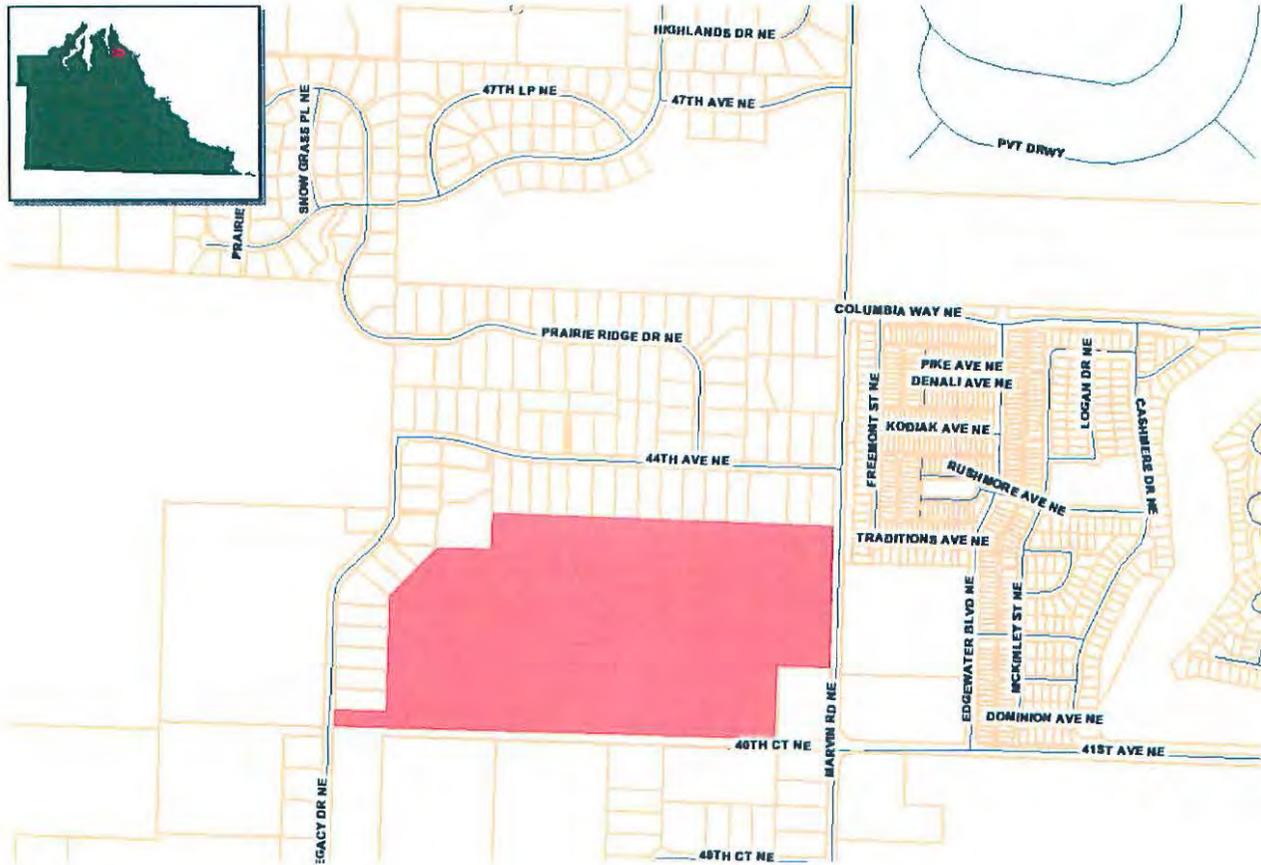
We look forward to working with the City on this annexation.

Very truly yours,


Katherine C. Wax

Enclosure

PROPERTY PROPOSED FOR ANNEXATION



(Parcel No. 11934100000 is shaded in pink in the map above.)

NTPS Annexation Zoning



The City of Lacey uses the most current and complete data available. However, GIS data and product accuracy may vary. GIS data and products may be developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created or revised, etc. The City of Lacey reserves the right to correct, update, modify, or replace, GIS products without notification. The City of Lacey cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. Using GIS data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may neither assert any proprietary rights to this information nor represent it to anyone as other than City Government-produced information. The City of Lacey shall not be liable for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.

POWERED BY
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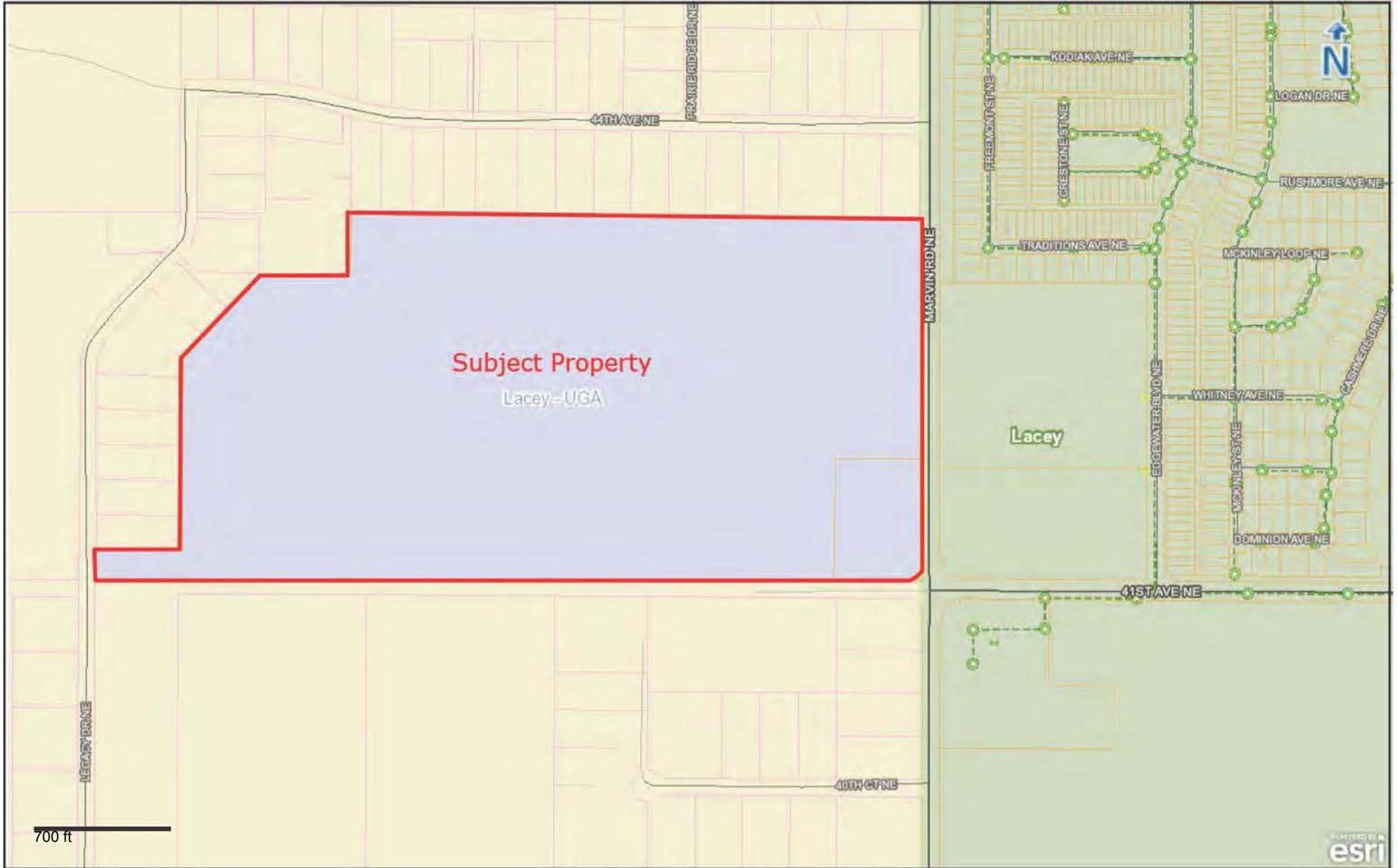
NTPS Annexation Aerial Photo



The City of Lacey uses the most current and complete data available. However, GIS data and product accuracy may vary. GIS data and products may be developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created or revised, etc. The City of Lacey reserves the right to correct, update, modify, or replace, GIS products without notification. The City of Lacey cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. Using GIS data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may neither assert any proprietary rights to this information nor represent it to anyone as other than City Government-produced information. The City of Lacey shall not be liable for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.



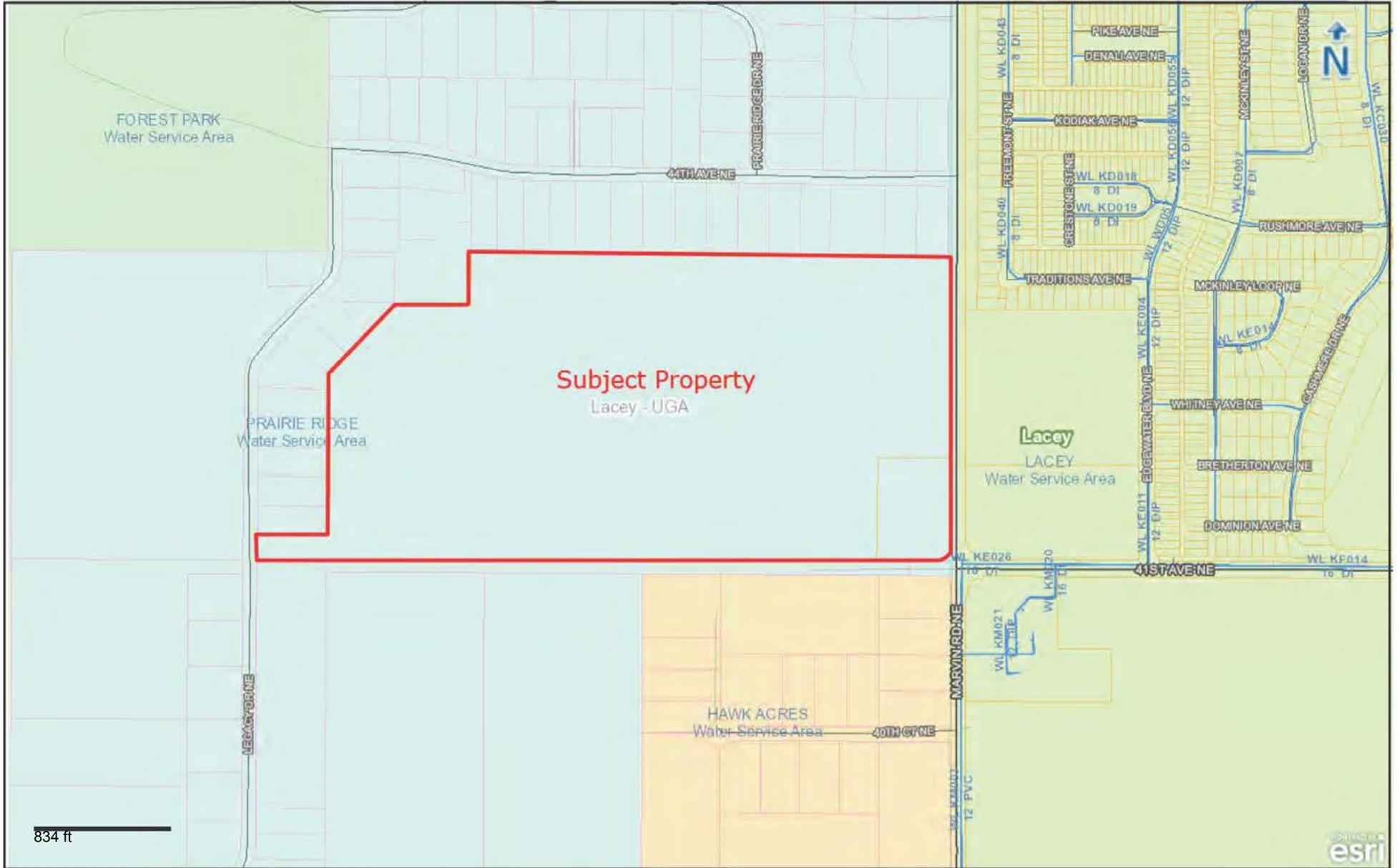
NTPS Annexation Sewer Lines



The City of Lacey uses the most current and complete data available. However, GIS data and product accuracy may vary. GIS data and products may be developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created or revised, etc. The City of Lacey reserves the right to correct, update, modify, or replace, GIS products without notification. The City of Lacey cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. Using GIS data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may neither assert any proprietary rights to this information nor represent it to anyone as other than City Government-produced information. The City of Lacey shall not be liable for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.



NTPS Annexation Water Lines and Service Areas



The City of Lacey uses the most current and complete data available. However, GIS data and product accuracy may vary. GIS data and products may be developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created or revised, etc. The City of Lacey reserves the right to correct, update, modify, or replace, GIS products without notification. The City of Lacey cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. Using GIS data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may neither assert any proprietary rights to this information nor represent it to anyone as other than City Government-produced information. The City of Lacey shall not be liable for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.





UTILITIES COMMITTEE

March 11, 2016

SUBJECT: Interlocal Agreement for Storm and Surface Water Monitoring

RECOMMENDATION: Forward to City Council with recommendation to approve the Interlocal Agreement between Thurston County and the Cities of Lacey, Olympia and Tumwater regarding Joint Storm and Surface Water Monitoring.

STAFF CONTACT: Scott Spence, City Manager *SS*
Scott Egger, Public Works Director *SE*
Peter Brooks, Water Resources Manager *PB*
Julie Rector, Water Quality Analyst *JR*
Doug Christenson, Stormwater Engineer *DC*

ORIGINATED BY: Water Resources division of Public Works Department

ATTACHMENTS:

1. [Updated Interlocal Agreement between Thurston County and the Cities of Lacey, Olympia and Tumwater](#)
2. [Appendix A spreadsheet of program elements and cost allocation details](#)

FISCAL NOTE: Proposed program will cost \$9,000 per year. The 2016 Budget anticipates this expenditure under Account Code 403-4201-538.41-23

PRIOR REVIEW: None

BACKGROUND:

The City of Lacey has participated in a stormwater and surface water monitoring program with Thurston County and the Cities of Olympia and Tumwater since 1990. The previous interlocal agreement for this monitoring program expired in 2014, although the program has continued while an updated agreement was developed. The monitoring program and cost allocation spreadsheet (Appendix A to the Agreement) have been updated with reductions in program elements and associated costs.

This updated Interlocal Agreement is for the years 2015-2018, retroactive to January 2015. Lacey's share of the joint monitoring program has a maximum annual cost allocation of \$9,000, which is reduced from the previous program period (\$20,000 for 2012-2014). The agreement has been reviewed and approved by the staff and legal representatives of all four participating jurisdictions.

ADVANTAGES:

1. This agreement continues the local regional storm and surface water monitoring program with our partner jurisdictions that has benefited Lacey with local data for more than twenty years.
2. Lacey's maximum annual cost allocation of \$9,000 is reduced from \$20,000 per the previous agreement.

DISADVANTAGES:

1. None anticipated except the annual cost.

**INTERLOCAL AGREEMENT
BETWEEN THURSTON COUNTY
AND THE CITIES OF LACEY, OLYMPIA AND TUMWATER
REGARDING JOINT STORM AND SURFACE WATER MONITORING**

This agreement (“Agreement”) is made and entered into by and between Thurston County, a subdivision of the State of Washington, hereinafter, “County” and the Cities of Lacey, Olympia and Tumwater, municipal corporations, hereinafter, “Cities”.

WHEREAS, the mission of the joint storm and surface water monitoring program is to assess the health of regional water resources to inform the development of programs, policies and capital facility plans to protect those water resources for beneficial uses in perpetuity; and

WHEREAS, the County and Cities have jointly developed and implemented a coordinated monitoring program of water quality, stream flows, lake levels and precipitation known as the Interlocal Monitoring Program continuously since 1991; and

WHEREAS, the County and Cities have intended to renew the agreement for the Interlocal Monitoring Program once the monitoring requirements of the new Western Washington Phase II Municipal Stormwater Permit (NPDES permit) were issued in final form; and

WHEREAS, RCW 39.34.010 permits local governmental units to make the most efficient use of their powers by enabling them to cooperate with other localities on the basis of mutual advantage; and

WHEREAS, the monitoring requirements of the current NPDES Phase II permit are in effect until August of 2018 and the previous interlocal agreement ran through the end of 2014 the County and Cities require a new completed interlocal agreement to continue the establishment of benefits and obligations of the parties as set forth in the agreement,

NOW, THEREFORE, IT IS HEREBY AGREED BETWEEN THE PARTIES AS FOLLOWS:

1. In consideration of the mutual benefits to be derived by all parties, the County agrees to perform the work set forth herein in cooperation with the Cities.
2. **RELATIONSHIP OF THE PARTIES.** The Cities and the County agree that they intend to act cooperatively pursuant to the authority of chapter 39.34 RCW to accomplish the purposes recited herein. No separate legal entity is created by this Agreement. This Agreement shall be administered jointly by the Cities and the County through the Thurston Regional Stormwater Technical Advisory Committee (TAC).

3. SCOPE OF PROGRAM:

- Data collection and data management of stream flow, precipitation, and chemical metrics for water resources located in the County and Cities jurisdictions.
- Reporting of raw and interpreted data collected in the form of reporting on the County's web page and in the form of an annual report.
- Special projects as agreed upon by the Cities.

4. PROGRAM ELEMENTS:

The storm and surface water monitoring elements generally include the activities below. The specific program activities are detailed in Appendix A:

4.1 Stream Flow Monitoring

Stream flow monitoring will generally provide data to: 1) develop and update regional drainage models; 2) quantify hydrologic changes in monitored streams; 3) assist in evaluating the effectiveness of stormwater Best Management Practices (BMPs) on a basin or sub-basin level; and 4) facilitate the development of adaptive management policies, programs, and capital facility projects.

4.2 Precipitation Monitoring

Precipitation monitoring will generally provide data to: 1) assess trends and recurrence intervals; 2) assist each jurisdiction in evaluating the effectiveness of stormwater BMPs on a basin or sub-basin level; 3) facilitate the development of adaptive management policies, programs, and capital facility projects; and 4) aid in the development of regional hydraulic models.

4.3 Ambient Water Quality Monitoring

Ambient monitoring assesses water quality trends over time. Ambient monitoring data may indicate the need for special projects where ambient data suggest discrete pollution sources are degrading a local water resource.

4.4 Water Resources Monitoring Report

The Water Resources Monitoring Report will generally contain water quality data, stream flow records, and precipitation records collected in conjunction with the above program elements. The report generally tracks historical trends in both water quality and flow.

Reports will be prepared at every two years (bi-annually) for the duration of this agreement and any mutually agreed upon extensions of this agreement. The first report will cover two (2) consecutive Water Years, beginning in October, 2014. The County will post raw data after completion of quality assurance and control procedures. The final reports will be made available not later than April 30th of the year following a reporting period.

The final report will be published electronically and posted on the Thurston County Department of Resource Stewardship website.

5. ESTIMATED COST AND FINANCING

For consideration of this Agreement, the County and Cities shall plan activities under the abovementioned Program Elements, such that estimated total costs do not exceed the Maximum Annual Cost Allocation identified below, starting in 2015:

<u>Cooperating Agency</u>	<u>Maximum Annual Cost Allocation</u>
Thurston County	\$56,000
Lacey	\$9,000
Olympia	\$18,000
Tumwater	\$12,000

For purposes of this Agreement, the approval and adoption of the respective annual stormwater program budgets by the County and Cities will serve as the commitment to fund each party’s pro-rata share of the program elements and/or special projects, as defined by the worksheets included in Appendix A and any amendments thereto prior to such approval and adoption.

Costs contained in this Agreement may be reduced if additional grant support becomes available for activities contained in this Agreement. At that time, the Agreement would be supplemented to indicate the revised local cost share.

Cities shall pay as billed by the County. The County shall provide a quarterly summary of its costs directly contributing to work elements in accordance with the Agreement. If the Agreement is terminated before completion of the work contemplated herein, the Cities agree to reimburse the County within thirty (30) days of the termination date for the Cities’ share of costs incurred up to the date of termination.

Each party shall make a good faith effort to participate at the funding levels necessary to fund the pro-rata share of the monitoring program, as permitted by the adoption and approval of the annual budget. In the event, a City fails to secure the necessary funding, please refer to Section 8- REALLOCATION OF FUNDS DUE TO BUDGET REDUCTION hereafter.

6. RESPONSIBILITIES OF COUNTY

6.1 Administer the Agreement including coordination with city public works staff, participating county departments, and other city and county agencies as necessary thereby ensuring adequate review and approval via the TAC of planned monitoring activities by September 1st.

6.2 Provide legal opinions and technical support as necessary to carry out the work.

- 6.3 Account for funds expended and bill each agency annually for its' agreed upon share of the program.
- 6.4 Operate and maintain the stream and precipitation gauges for those currently installed for which shared operating costs are included in this agreement and any future gauges identified by the TAC;
- 6.5 Collect, process, and make available stream flow and precipitation data to the Cities and others by posting the data on the Thurston County Department of Resource Stewardship website a minimum of six times per year and when requested by the Cities.
- 6.6 Coordinate with the Thurston County Public Health and Social Services Department, Environmental Health (TCEH) for sampling of water quality parameters, including but not limited to, temperature, turbidity, pH, dissolved oxygen, conductivity, fecal coliform bacteria, total phosphorus, and nitrate-nitrite, for those streams identified by the TAC;
- 6.7 Coordinate with the TCEH for the proper management of the ambient monitoring data using TCEH's Surface Water Ambient Monitoring Standard Operating Procedures and Analysis Methods for quality assurance and quality control (QA/QC) procedures;
- 6.8 Coordinate with TCEH for the publication of the monitoring data outlined by the abovementioned Program Elements, including data from other state, and federal agencies, students, and volunteer organizations, in the Thurston County Water Resources Monitoring Report and post it on the Thurston County Department of Resource Stewardship website.

7. RESPONSIBILITIES OF CITIES

- 7.1 Assign its chief public works or engineering manager or designee to participate and assist the County in scope of work preparation, review and approval of planned monitoring activities and overall program direction.
- 7.2 Reimburse the County for the Cities' share of the account for labor and other costs directly contributing to program elements in accordance with this Agreement.

8. REALLOCATION OF FUNDS DUE TO BUDGET REDUCTION

Should a City fail to secure adequate funding for any or all of the program elements outlined above, the City shall provide written notice to the County within thirty (30) calendar days of its budget adoption.

The Cities agree to meet within fourteen (14) calendar days thereafter to discuss the impacts of

such a budget reduction. As participation for each City is contingent upon final budget approval and adoption, the Cities may elect to redistribute costs or eliminate specific program elements as needed, provided that the participating Cities do not exceed the maximum amounts indicated in Section 5 ESTIMATED COST AND FINANCING, unless otherwise agreed upon in writing through either subsequent agreements or addendums to this Agreement.

9. DURATION

This Agreement shall be retroactive to January 1, 2015 and remain in effect through December 31, 2018, subject to amendment, and may be extended upon agreement of the participating jurisdictions.

10. HOLD HARMLESS AND INDEMNIFICATION

The parties to this Agreement agree that each party is responsible only to themselves for any and all claims, actions, suits, liability, loss, expenses, damages, and judgments of any nature whatsoever, including costs and attorney's fees in defense thereof, for injury, sickness, disability or death to persons or damage to property caused by or arising out of the performance of this Agreement. PROVIDED FURTHER, that in the event of the concurrent negligence of any of the parties, those parties' obligations hereunder shall apply only to the percentage of fault attributable to themselves, their employees or agents.

11. ENTIRE AGREEMENT

The parties agree that this Agreement is the complete expression of its terms and conditions. Any oral or written representations or understandings not incorporated in this Agreement are specifically excluded.

12. TERMINATION

Any party to this Agreement may terminate this Agreement by giving the other parties at least thirty (30) days advance written notice. If this Agreement is so terminated, the parties shall be liable only for performance rendered or costs incurred in accordance with the terms of this Agreement prior to the effective date of termination. The hold harmless and indemnification provisions of this Agreement shall survive termination or expiration of this Agreement.

13. SEVERABILITY

If any provision of this Agreement or any provision of any document incorporated by reference shall be held invalid, such invalidity shall not affect the other provisions of this Agreement that can be given effect without the invalid provision, if such remainder conforms to the requirements of applicable law and the fundamental purpose of this Agreement, and to this end the provisions of this Agreement are declared to be severable.

14. COUNTERPARTS

This Agreement may be executed in counterparts, and all such counterparts once so executed shall together be deemed to constitute one final agreement, as if one document had been signed.

by all Parties, and each such counterpart, upon execution and delivery, shall be deemed a complete original, binding on the parties. A faxed or email copy of an original signature shall be deemed to have the same force and effect as the original signature.

Each party has caused this Agreement to be signed by its duly authorized officer or representative as of the date set forth below its signature.

CITY OF LACEY

City Manager

Date: _____

APPROVED AS TO FORM

City Attorney

ATTEST:

City Clerk

CITY OF OLYMPIA

Mayor

Date: _____

APPROVED AS TO FORM:

City Attorney

ATTEST:

City Clerk

CITY OF TUMWATER

Mayor

Date: _____

APPROVED AS TO FORM:

City Attorney

ATTEST:

City Clerk

DATE: _____

BOARD OF COUNTY COMMISSIONERS
Thurston County, Washington

ATTEST:

Clerk of the Board

Chair

APPROVED AS TO FORM:

Vice-Chair

JON TUNHEIM
PROSECUTING ATTORNEY

Commissioner

By: _____
Deputy Prosecuting Attorney

APPENDIX A: 2015 -2018 Inter-local Monitoring Agreement

Worksheet 1: Stream Flow Monitoring Cost by Agency

Watershed	Stream	Cooperating Agency				Total
		Lacey	Olympia	Thurston	Tumwater	
Nisqually	Eaton Creek					\$ -
Henderson	Woodard Creek			\$ 3,962		\$ 3,962
	Woodland Creek	\$ 1,981		\$ 1,981		\$ 3,962
Budd/Deschutes	Black Lake Ditch			\$ 1,981	\$ 1,981	\$ 3,962
	Chambers Creek			\$ 3,962		\$ 3,962
	Ellis Creek					\$ -
	Percival Creek					\$ -
Eld	Green Cove Creek			\$ 3,962		\$ 3,962
Total Annual Cost		\$ 1,981	\$ -	\$ 15,848	\$ 1,981	\$ 19,810
Percentage by Cooperating Agency		10%	0%	80%	10%	100%

Allocation Table- Flow Monitoring				
Total	Lacey	Olympia	Thurston	Tumwater
0.00		0.00	0.00	
1.00		0.00	1.00	
1.00	0.50		0.50	
1.00		0.00	1.00	
0.00				
0.00		0.00	0.00	0.00
1.00		0.00	1.00	
5.00	0.50	0.00	4.00	0.50
100%	10%	0%	80%	10%

Non-ILA Funded by Th Co

Station to be Removed

Cost Rationale: Costs are derived from the program element's cost for data collection, data management, operation and maintenance, gauge replacement, tools and accessories and vehicle rental. Costs per Cooperating Agency are derived by determining the Annual Cost per stream site and prorating the costs by the number of participating agencies.

	Annual Cost per Gauge
<i>Annual Data Collection:</i>	
Assume 12 events per gauge per year; 1.0 hour per event per gauge; and 1 person per event.	\$ 654.00
<i>Annual Data Management:</i>	
Assume 12 events per gauge per year; 1.0 hour per event per gauge; and 1 person per event.	\$ 654.00
<i>Annual Operation and Maintenance</i>	
Maintenance: Assume 3 events per gauge; 1.0 hour per event; and 2 persons per event.	\$ 365.00
Calibration: Assume 4 events per gauge; 3.67 hours per event; and 2 persons per event.	\$ 1,783.62
<i>Annual Stream Gauge Replacement Cost:</i>	
Assume capital costs of \$2,100 per gauge amortized over 5 years (straight line depreciation).	\$ 420.00
<i>Annual Tools and Accessories:</i>	
Assume 10% of Annual Stream Gauge Replacement Cost per annum.	\$ 42.00
<i>Annual Equipment Rental and Replacement Cost (Vehicle):</i>	
Assume 25% of the Annual ER&R Reserve Replacement cost (Vehicle No. 541):	\$ 43.00
Annual Flow Monitoring Costs on a per gauge basis:	\$3,961.62

¹ All costs rounded to the nearest whole dollar amount.

APPENDIX A: 2015 -2018 Inter-local Monitoring Agreement

Worksheet 2: Precipitation Monitoring Cost¹ by Agency

Watershed	Gauge Location	Cooperating Agency				Allocation Table- Precip Monitoring Total
		Lacey	Olympia	Thurston	Tumwater	
Nisqually	Meridian Road			\$ 1,857		\$ 1,857
Henderson	South Bay FD		\$ 929	\$ 929		\$ 1,858
	Lacey FD #3	\$ 929		\$ 929		\$ 1,858
	WARC			\$ 1,857		\$ 1,857
Budd/Deschutes	TC Bldg. 4		\$ 619	\$ 619	\$ 619	\$ 1,857
	Lake Lawrence			\$ 1,857		\$ 1,857
	Olympia Airport					\$ -
Eld	Kaiser Road					\$ -
Total Annual Cost		\$ 929	\$ 1,548	\$ 8,048	\$ 619	\$ 11,144
Percentage by Cooperating Agency		8%	14%	72%	6%	100%

Total	Lacey	Olympia	Thurston	Tumwater
1.00			1.00	
1.00		0.50	0.50	
1.00	0.50		0.50	
1.00			1.00	
1.00		0.33	0.33	0.33
1.00			1.00	
0.00				
0.00		0.00	0.00	
6.00	0.50	0.83	4.33	0.33
100%	8%	14%	72%	6%

NOAA Station
Station to be removed

Cost Rationale: Costs are derived from the program element's cost for data collection, data management, operation and maintenance, gauge replacement, tools and accessories and vehicle rental. Costs per Cooperating Agency are derived by determining the Annual Cost per precipitation gauge and prorating the costs by the number of participating agencies.

	Annual Cost per Gauge
<i>Annual Data Collection:</i>	
Assume 12 events per gauge; 1.0 hour per gauge; and 1 person per event.	\$ 654.00
<i>Annual Data Management:</i>	
Assume 12 events per gauge; 1.0 hour per gauge; and 1 person per event.	\$ 654.00
<i>Annual Operation and Maintenance</i>	
Maintenance: Assume 1.0 event per gauge; 1.0 hours per gauge; and 2 persons per event.	\$ 122.00
<i>Annual Precipitation Gauge Replacement Cost:</i>	
Assume capital cost of \$1,700 per gauge amortized over 5 years (straight line depreciation)	\$ 340.00
<i>Annual Tools and Accessories:</i>	
Assume 15% of Annual Precipitation Gauge Replacement Cost per annum.	\$ 51.00
<i>Annual Equipment Rental and Replacement Cost (Vehicle):</i>	
Assume 25% of the Annual ER&R Reserve Replacement cost (Vehicle No. 541):	\$ 36.00
Annual Precipitation Monitoring Costs on a per gauge basis:	\$1,857.00

¹ All costs rounded to the nearest whole dollar amount.

APPENDIX A: 2015 -2018 Inter-local Monitoring Agreement

Exhibit 4: Ambient Monitoring Cost¹ by Agency

Watershed	Stream	Cooperating Agency				Total
		Lacey	Olympia	Thurston	Tumwater	
Nisqually	Eaton Creek					\$ -
Henderson	Woodard Creek			\$ 4,520		\$ 4,520
	Woodland Creek	\$ 2,260	\$ -	\$ 2,260		\$ 4,520
Budd/Deschutes	Black Lake Ditch		\$ 1,507	\$ 1,507	\$ 1,507	\$ 4,521
	Chambers Creek	\$ 1,507	\$ 1,507	\$ 1,507		\$ 4,520
	Deschutes River- E Street		\$ -	\$ 2,260	\$ 2,260	\$ 4,520
	Ellis Creek		\$ -	\$ -		\$ -
	Indian Creek		\$ 2,260	\$ 2,260		\$ 4,520
	Mission Creek		\$ -			\$ -
	Moxie Creek at Plum St					\$ -
	Moxie Creek at mouth		\$ 4,520			\$ 4,520
	Percival Creek		\$ 2,260	\$ -	\$ 2,260	\$ 4,520
	Schneider Creek		\$ -			\$ -
Eld	Green Cove Creek			\$ 4,520		\$ 4,520
	McLane Creek					\$ -
	Perry					\$ -
Totten	Kennedy Creek					\$ -
	Schneider Creek					\$ -
Total Annual Cost		\$ 3,767	\$ 12,054	\$ 18,834	\$ 6,027	\$ 40,681
Percentage by Cooperating Agency		9%	30%	46%	15%	100%

Allocation Table- Ambient Monitoring				
Total	Lacey	Olympia	Thurston	Tumwater
0.00				
1.00		0.00	1.00	
1.00	0.50	0.00	0.50	
1.00		0.33	0.33	0.33
1.00	0.33	0.33	0.33	
1.00		0.00	0.50	0.50
0.00		0.00	0.00	
1.00		0.50	0.50	
0.00		0.00		
0.00		0.00		
1.00		1.00		
1.00		0.50	0.00	0.50
0.00		0.00		
1.00		0.00	1.00	
0.00			0.00	
0.00			0.00	
0.00		0.00	0.00	
9.00	0.83	2.67	4.17	1.33
100%	9%	30%	46%	15%

Not ILA- Funded by Thurston County

Cost Rationale: Costs are derived from the program element's cost for data collection, data management, laboratory costs, tools and accessories and vehicle rental. Costs per Cooperating Agency are derived by determining the Annual Cost per stream site and prorating the costs by the number of participating agencies.

	Annual Cost per Stream
Annual Sample Collection:	
Calibration: Assume 12 sampling events per annum; 1.5 hours per event; and 2 persons ² per event	\$ 1,872.00
Collection: Assume 12 sampling events per annum; 1.0 hour per event; and 2 persons ² per event.	\$ 1,248.00
Annual Data Management:	
Assume 2.0 hours per sample site; and publish one (1) summary report per annum ² .	\$ 104.00
Annual Laboratory Fees:	
Private Lab: Assume 12 sampling events per annum.	\$ 1,296.00
Annual Equipment Rental and Replacement Cost :	
Annual ER&R Reserve Replacement Cost (TCEH Vehicle):	\$ 500.00
Annual Ambient Monitoring Costs on a per stream site basis:	\$4,520.00

¹ All costs rounded to the nearest whole dollar amount.

² Thurston County, Department of Environmental Health staff members to conduct fieldwork.

Summary of Annual Cost Sharing By Agency
Exhibit 6: Water Resources Monitoring Report Cost by Agency

	Cooperating Agency				Total
	Lacey	Olympia	Thurston	Tumwater	
Bi-Annual Water Resources Report	1,156	2,355	7,398	1,494	12,403
Total Annual Cost	\$ 1,156	\$ 2,355	\$ 7,398	\$ 1,494	\$ 12,403
Percentage by Cooperating Agency	9%	19%	60%	12%	100%

Allocation Table- Annual Report				
Total	Lacey	Olympia	Thurston	Tumwater
1.00	0.09	0.19	0.60	0.12

Cost Rationale: The Water Resources Monitoring Report will be prepared bi-annually. The costs will be equally divided among all Cooperating Agencies on a per annum basis.		Total Annual Costs
<i>Annual Data Collection, Draft Report; QA/QC:</i>		
Assume 80 hours per annum; and 2 persons ² .		\$8,320
Assume 18 hours per annum; and 1 person ³ .		\$981
<i>Annual Word Processing:</i>		
Assume 56 hours per annum; and 1 person ² .		\$2,352
<i>Printing and Miscellaneous Supplies:</i>		\$750
Total Annual Costs for Water Resources Report		\$12,403

¹ All costs rounded to the nearest whole dollar amount.

² Thurston County, Department of Environmental Health staff members to collect and format data for publication.

³ Thurston County, Department of Water and Waste Management staff members to collect and format data for publication.

Summary of Annual Cost Sharing By Agency					
Exhibit 7: Administration Costs ¹ by Agency					
	Cooperating Agency				Total
	Lacey	Olympia	Thurston	Tumwater	
Annual Administration Costs	\$ 436	\$ 889	\$ 2,792	\$ 564	4,680
Total Annual Cost	\$ 436	\$ 889	\$ 2,792	\$ 564	\$ 4,680
Percentage by Cooperating Agency	9%	19%	60%	12%	100%

Allocation Table- Administration Costs				
Total	Lacey	Olympia	Thurston	Tumwater
1.00	0.09	0.19	0.60	0.12

Cost Rationale: Administrative costs are dividing the total administrative costs equally among all Cooperating Agencies.	
	Total Annual Costs
<i>Annual Administrative Costs:</i>	
Project Manager: Assume 24 staff hours/annually	\$ 1,680
Utility Planner: Assume 24 staff hours/annually	\$ 1,704
Administrative Assistant: Assume 16 staff hours/annually	\$ 672
Accountant: Assume 12 staff hours/annually	\$ 624
Total Annual Administrative Costs	\$ 4,680

¹ All costs rounded to the nearest whole dollar amount.

**ILA- Monitoring Program
Summary of Annual Rates and Charges**

MPB

Date: 08/29/2003
Revised: 07/11/2012

**FY2013
Rates and Charges**

WWM Billable Hourly Rates

EPM	Engineering Project Manager	
NPDES Coordinator		\$70.00
UP	Utility Planner	\$71.00
WRS3	Water Resc Spc, PRG Supervisor	\$67.00
WRS2	Water Resc Spc -Sr. field	\$54.50
SAA	Sr Accountant Assistant	\$52.00
SOA	Senior Office Assistant	\$42.00

TC Environmental Health Billable Hourly Rates

ES(1)	Environmental Specialist	\$52.00
ES(2)	Environmental Specialist	\$52.00

Miscellaneous Rates, Fees and Charges

Annual ER&R Reserve Replacement costs:	\$855.00	per annum	
Stream Gauge (replacement costs):	\$1,850.00	per gauge	
Precipitation Gauge (replacement costs):	\$1,350.00	per gauge	
Macro Invertebrate Laboratory fees:	\$228.00	per sample	
Ambient Sampling Fees (Private Labratory):			
Fecal Coliform	\$40.00	per sample	
Nitrate/Nitrite	\$25.00	per sample	
Total Phosphorous	\$25.00	per sample	
E. Coli	\$0.00	per sample	
Turbidity	\$0.00	Determined in field	
pH	\$0.00	Determined in field	
Conductivity	\$0.00	Determined in field	
Dissolved Oxygen, DO	\$0.00	Determined in field	
Shipping Charges	\$18.00	per sample or	\$70.00 per event
Total Ambient Sampling fee	\$108.00	per sample	