

## City of Burien, Washington Contract Routing Sheet

Name of Contracting Party: King County

Project Name/Description: Interlocal Agreement for the Provision of Surface Water Management Services and Collection of Revenues (1993-present)

Contract Amount: \$ \_\_\_\_\_  
(Include Contractor's Proposal Amount and Sales Tax)

Type of Contract:

<input type="checkbox"/> <b>Architectural/Engineering</b> <input type="checkbox"/> From Engineering Roster <input type="checkbox"/> Advertised Bidding Done  <input type="checkbox"/> <b>Professional Services</b> (Non-Engineering) <input type="checkbox"/> 3 Bids received <input type="checkbox"/> Direct Negotiation	<input type="checkbox"/> <b>Construction</b> <input type="checkbox"/> Informal Bidding Process Done-3 bids (less than \$20,000/\$35,000) <input type="checkbox"/> From Small Works Roster (\$20,000/35,000 to \$100,000) <input type="checkbox"/> Competitive/Advertised Bidding Done (Over \$100,000) <input type="checkbox"/> Other: _____	<input type="checkbox"/> <b>Human Services/Arts &amp; Culture/City Match</b>  <input type="checkbox"/> Other: _____  <input type="checkbox"/> <b>Contract Amendment to Contract No.</b> _____
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*(Please attach a list of all bids received)*

Is this contract authorized in the current year's budget?  Yes  No

If budgeted, list Fund/Dept.: \_\_\_\_\_

Page # in Budget: \_\_\_\_\_ Budget line item amount: \$ \_\_\_\_\_

BARS Account Number: \_\_\_\_\_

Is a budget amendment needed?  Yes  No Amount? \$ \_\_\_\_\_

Date of Council Approval: 1993

**REVIEWED BY:**

Contract Manager: \_\_\_\_\_ Date: \_\_\_\_\_

Department Director: \_\_\_\_\_ Date: \_\_\_\_\_

Management Analyst: \_\_\_\_\_ Date: \_\_\_\_\_

<p style="text-align: center;"><b><u>Routing Instructions:</u></b></p> <input type="checkbox"/> Send original to Contractor for their signature and then provide a copy of the fully signed contract to _____ <hr/> <input type="checkbox"/> Contract is already signed by Contractor, please provide a copy of the fully signed contract to: _____ <hr/> <input type="checkbox"/> Other (Please describe) _____ <hr/>	<p style="text-align: center;"><b><u>Contract File Checklist:</u></b></p> <input type="checkbox"/> Purchase Order # _____ <input type="checkbox"/> Tax ID Form <input type="checkbox"/> Current Business License # _____ <input type="checkbox"/> Insurance Certificate <input checked="" type="checkbox"/> Contract Fully Signed
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AMENDMENT TO THE INTERLOCAL AGREEMENT  
BETWEEN KING COUNTY AND THE CITY OF BURIEN  
FOR THE PROVISION OF SURFACE WATER MANAGEMENT SERVICES  
AND COLLECTIONS OF REVENUES

This amendment extends the duration of an interlocal agreement between King County and the City of Burien which was entered into by both parties for the purpose of providing surface water management services to the City and providing for the collections of surface water management service charges for the City by King County. All changes to the existing agreement are contained in this amendment; elements of the original agreement which are not addressed in this amendment remain as stated in that document.

WHEREAS, King County and Burien entered into an interlocal agreement in March 1993 which is attached to this amendment as Exhibit A and is incorporated by reference herein, and

WHEREAS, the present agreement expires on December 31, 1995 and both parties wish it to remain in effect until revisions to the service agreement to cover the next contract period can be determined, and

WHEREAS, the parties have authority to enter into and to amend agreements under RCW 39.34, the Interlocal Cooperation Act;

NOW, THEREFORE, the parties mutually agree to the following amendments to the interlocal agreement:

Effectiveness and Duration

- A. This amendment will become effective on January 1, 1995 and remain in effect until a new agreement is signed by the parties.
- B. This amendment shall become effective upon signature by the parties to the agreement.

  
\_\_\_\_\_  
Pamela Bissonette  
for King County Executive

  
\_\_\_\_\_  
Fred Stouder  
Burien City Manager

**COPY**

AN INTERLOCAL AGREEMENT  
BETWEEN KING COUNTY AND THE CITY OF BURIEN  
FOR THE PROVISION OF SURFACE WATER SERVICES  
AND COLLECTION OF REVENUES

1 This agreement is hereby entered into by King County, Department of Public  
2 Works, Surface Water Management Division, hereinafter referred to as "King County", and  
3 the city of Burien, a municipal corporation hereinafter referred to as "Burien", for the  
4 provision of surface water services to Burien and the collection and transfer of Burien's  
5 surface water management revenue by King County.

6 WHEREAS, the residents of the unincorporated King County area known as Burien  
7 have voted to become an incorporated city; and

8 WHEREAS, Burien recognizes the need for comprehensive surface water  
9 management to preserve and protect the environment, public and private property, and the  
10 health and welfare of its citizens; and

11 WHEREAS, King County has an established program to address the management of  
12 storm and surface water runoff, including meeting State and Federal mandates for water  
13 quality; and

14 WHEREAS, King County's program is financed by a service charge on developed  
15 properties and is based on the King County Drainage Code set forth in Title 9, King County  
16 Code; and

17 WHEREAS, Burien has adopted the necessary legislation authorizing the City to  
18 enter into this agreement and to establish a surface water management program and service  
19 charge; and

20 WHEREAS, through an interlocal agreement, King County is able to provide a  
21 range of surface water management services to Burien which will provide uninterrupted  
22 service to residents and property owners in the City; and

23 WHEREAS, pursuant to RCW 39.34, the Interlocal Cooperation Act, the parties  
24 are each authorized to enter into an agreement for cooperative action;

25 NOW THEREFORE, the parties hereto agree as follows:

26 I. Purpose of the Agreement:

27 A. The purpose of this agreement is to provide the means by which King County  
28 can provide the city of Burien and its residents with continuation of drainage

1 C. This agreement sets forth the services which the parties agree will be provided  
2 within the Burien city limits, provides estimates of the cost of those services and  
3 of the revenue to be collected in support of those services.

4 D. This agreement establishes the procedures for reconciling estimated service  
5 amounts and costs with the services delivered and the actual costs of those  
6 services as billed to Burien.

7 E. This agreement creates a mechanism for adjusting the amount, type and cost of  
8 services requested by Burien and provided by King County in a calendar year  
9 and establishes procedures for changing service levels in the future.

10 F. This agreement is for a term of three years. King County will deliver the  
11 services set forth in Exhibits One and Two in 1993. This agreement establishes  
12 a mechanism for adjusting the level of services in subsequent years, with the  
13 exception of the Miller/Salmon/Seola Basin Plan which will be conducted  
14 according to a Scope of Work agreed to by the parties and in substantially the  
15 same form as Exhibit Four to this Agreement.

16 1. Design and construction of large capital projects is not included in the  
17 Contract Service to Burien attachment to this agreement. Capital  
18 construction projects require an average of three years to complete and, in  
19 the event that Burien elects to undertake capital construction projects, will  
20 be subject to a special addendum to this agreement as set forth in Section  
21 IV. C. of this agreement.

22 II. Management of Contracted Drainage Services

23 A. Project Management Team

24 1. The delivery of services under this agreement will be managed by a Project  
25 Management Team composed of the King County Surface Water  
26 Management Division Manager or designee and the Burien City Manager  
27 or designee with additional staff to be determined by each party.

28 2. The Project Management Team or designees shall meet at least quarterly.

1 guidelines for requesting and providing any services in addition to those  
2 specifically addressed by this agreement.

- 3 4. The Project Management Team will use consensus to reach agreement. In  
4 the event consensus is not possible, issues requiring agreement will be  
5 forwarded to the Director of the King County Department of Public Works  
6 and the Mayor of Burien for resolution.

7 B. Activation of Specific Services

- 8 1. Estimated levels and costs of all services to be provided by King County  
9 are stated in Exhibits One and Two. The following services will be initiated  
10 only upon written request from Burien: Public Involvement; Technical  
11 Services; and enforcement services (as part of the Drainage Investigation  
12 and Regulation service category). King County will bill the City for these  
13 services only if they have been specifically requested and delivered.

14 III. Responsibilities of the Parties

15 The responsibilities of the parties under this agreement relate to authorizing,  
16 coordinating and providing drainage related services to Burien and its residents and  
17 developing the Miller/Salmon/Seola Basin Plan.

18 A. King County

- 19 1. King County agrees to provide the services as set forth in the Contract  
20 Service to Burien Addendum attached to this agreement as Exhibit One  
21 and incorporated herein.  
22 2. King County will bill Burien property owners for the surface water  
23 management service charge, using the King County property tax statement,  
24 and will collect and transfer the revenue to Burien on an approximate  
25 monthly basis.  
26 3. King County will inform Burien officials of delinquent accounts.  
27 4. King County will keep records of services delivered in Burien and will  
28 make said records available to Burien at least quarterly or as requested.

- 1 a. authorize the County to collect surface water service charges from
- 2 City property owners;
- 3 b. permit the County to act as the City's agent for collecting the
- 4 service charge and providing drainage services.
- 5 2. Burien will adopt such policies and procedures as are required to manage
- 6 the delivery of specific services under this agreement.
- 7 3. Burien will adopt King County's existing rate structure for 1993, as set
- 8 forth in Exhibit Three to this Agreement.
- 9 a. If the City changes its service charge rate structure in future years, it
- 10 will notify the County of the new rate, and any adjustments to that
- 11 rate, at least 60 days prior to year-end, allowing time for the County to
- 12 make necessary adjustments to the billing system.
- 13 4. Burien will be responsible for all actions pursuant to delinquent accounts,
- 14 including the use of liens and foreclosures on Burien property owners, after
- 15 the effective date of incorporation.

16 IV. Description of Services

17 The services to be delivered under this agreement are described in Exhibit One  
18 attached to this agreement and incorporated herein. This section sets forth any  
19 conditions which must be met for the delivery of the specific services addressed in  
20 this section to occur.

21 A. Enforcement Services

- 22 1. Should Burien wish King County to provide enforcement services for the
- 23 City's drainage code, Burien must adopt sufficient authority to perform
- 24 specific tasks associated with enforcements, and to allow the County to
- 25 undertake specific enforcement tasks within City limits. Such authority
- 26 includes drainage standards identical or very similar to King County Code
- 27 9.04, water quality control provisions identical or very similar to King
- 28 County Code 9.12, and enforcement procedures identical or very similar

1 assistance in cases involving violations. Specifically, the County may  
2 perform the following:

- 3 a. conduct research and site visits to determine whether a violation  
4 exists.
  - 5 b. develop a form "Notice of Violation";
  - 6 c. advise the City regarding correction of the violation;
  - 7 d. develop a report to the City Manager or designee;
  - 8 e. attend hearings and provide testimony on the City's behalf;
  - 9 f. evaluate corrections/compliance and report to the City.
- 10 3. In cases requiring enforcement of Burien's drainage code, the City must  
11 initiate and prosecute actions. Specifically, Burien shall conduct the  
12 following enforcement-related activities:
- 13 a. initiate the enforcement action;
  - 14 b. issue notice of violation;
  - 15 c. coordinate repair/reconstruction with owner;
  - 16 d. conduct enforcement hearings;
  - 17 e. release notice and order upon completion of repairs;
  - 18 f. collect/negotiate fines;
  - 19 g. defend its ordinances.
- 20 4. Burien is responsible for legal services relating to enforcement actions.
- 21 5. Should Burien choose to engage King County for services on potential or  
22 actual enforcements, the County will provide in advance a written estimate  
23 of staff hours required and corresponding costs for services.

24 B. Basin Planning

25 Development of the Miller/Salmon/Seola Basin Plan is scheduled to begin in 1993.  
26 The parties hereto agree that basin planning is a comprehensive, watershed-wide  
27 effort addressing the quantity and quality of all the natural and constructed drainage  
28 related resources and conditions in the planning area. It is the intent of the parties to

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King County: 21% of the planning area;  
SeaTac: 11% of the planning area;  
Normandy Park: 7% of the planning area;  
Seattle: 4% of the planning area.

King County's and Burien's shares of all Basin Plan costs are based on the amount of planning area within the jurisdiction.

2. The Basin Plan will be developed following a Scope of Work agreed to by the involved parties and in substantially the same form as Exhibit Four, attached to this agreement as an example.
3. King County will convene all necessary meetings to finalize the Scope of Work and the level of participation by the jurisdictions in the watershed.
4. King County will provide the necessary staff and materials to complete the Plan.
  - a. King County will establish a Policy Committee, composed of representatives of jurisdictions involved in the Plan, to direct and periodically evaluate Basin Plan work products, schedule, scope and other issues related to the Plan's development.
  - b. King County will provide all records, accounting, documentation and other written materials as necessary to support costs and schedules for the Plan development.
5. Burien commits to participate in the development of the Plan as set forth in a completed Scope of Work which has been agreed to by the parties hereto.
  - a. Burien agrees to commit the necessary resources to completion of the Scope of Work within two months of the effective date of this agreement.

C. Large Capital Project Construction

In the event Burien decides to proceed with design and construction of any large Capital Project...

1 V. Financial Arrangements

2 A. Revenue Collection

- 3 1. King County will collect and distribute to Burien revenue received from  
4 properties within the city limits of Burien using the combined Property Tax  
5 and Drainage Billing Statement.
- 6 2. King County will hold revenues collected for Burien in a separate account  
7 and will disburse the revenue to the City on a monthly basis.
- 8 3. Burien will pay the County for revenue collection and disbursement as set  
9 forth in the Cost Schedule attached to this agreement as Exhibit Two and  
10 incorporated herein.
- 11 a. Burien will pay a fee of ninety-three cents (\$.93) per account for two  
12 years to cover the cost of modifying the billing system for Burien  
13 accounts. This charge will be discontinued after December 31, 1994.
- 14 b. The City will pay the County a flat one percent (1%) of all revenue  
15 collected by the County for the City under the terms of this  
16 agreement. This charge will remain unchanged for the duration of  
17 this agreement and will be deducted from the revenues collected on  
18 a monthly basis by the County and forwarded to the City. This  
19 charge is reflected on Exhibit Two to this Agreement.

20 B. Costs

- 21 1. The costs for services shown in Exhibit Two represent the estimated annual  
22 costs for 1993 services, with the exception of Basin Planning costs,  
23 addressed in B.2. below. The estimates account for the costs of direct  
24 services plus an administrative overhead charge as required by King  
25 County Council Motion No. 8689. In ensuing years, the estimated costs of  
26 services will be revised to reflect relevant economic adjustments such as  
27 cost of living increases adopted by the King County Council in the annual  
28 King County budget process.

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the event of annexation of areas of unincorporated King County by Burien before completion and adoption of the Plan, the parties agree to adjust contributions accordingly.

- b. In the event that the Basin Plan Scope of Work is amended by agreement of parties to the Plan, Burien and King County agree to adjust contributions as needed.
  - c. Amendments or adjustments to the total cost will be agreed to in writing by the parties hereto.
  - d. Burien will pay its portion of the agreed-to Plan cost on an annual basis over the anticipated three-year planning period, within sixty days of receipt of invoices issued by King County.
  - e. King County will invoice Burien for its share of the planning costs on an annual basis.
3. With the exception of Basin Plan costs, differences between the estimated cost of specific services and the cost of services actually delivered to Burien will be reflected in quarterly invoices for those services and will be discussed and reconciled in the quarterly meetings of the Project Management Team.
4. With the exception of Basin Plan costs, estimated service costs are for a full year and are based, where information is available, on actual costs for services delivered in previous years in the now incorporated area. Where previous year actuals are not available, projections of service costs are based on average direct costs for services throughout the King County service area.
- a. In the event that King County may be required or requested to provide SWM services to Burien in unscheduled or unpredictable circumstances or events, the parties will agree in writing for additional payment of services should the costs for those services exceed the

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VI. Effectiveness and Duration

A. This agreement will be effective upon signature by the parties and remain in effect until December 31, 1995 or until completion of the Miller/Salmon/Seola Basin Plan.

VII. Termination and Amendment

A. This agreement may be amended, altered, clarified or extended only by written agreement of the parties hereto.

B. The estimated costs and level of service shown in Exhibits One and Two are acknowledged as being the best projections for service and cost available at the time the agreement is entered into.

1. The level of services or the costs of the services will be adjusted on an annual basis and adjustments will be attached to this agreement as an addendum and incorporated herein.

2. Annual adjustments to the level of service and cost of services are subject to the annual budget process in both jurisdictions.

C. This agreement may be terminated by either party on ninety (90) days written notice to the other party. In the event of termination by Burien, the City will be responsible for actual costs for services to the end of the quarter in which the termination of services occurs.

VIII. Hold Harmless and Indemnification

A. The County shall indemnify and hold harmless the City and its officers, agents and employees, or any of them from any and all claims, actions, suits, liability, loss, costs, expenses and damages of any nature whatsoever, by reason of or negligent arising out of any act or omission of the County, its officers, agents and employees, or any of them, relating to or arising out of the performance of this

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involved. If final judgment be rendered against the City and its officers, agents and employees, or any of them, or jointly against the City and the County and their respective officers, agents and employees, or any of them, the County shall satisfy the same.

B. In executing this Agreement, the County does not assume liability or responsibility for or in any way release the City from any liability or responsibility which arises in whole or in part from the existence or effect of City ordinances, rules or regulations. If any cause, claim, suit, action or administrative proceeding is commenced in which the enforceability and/or validity of any such City ordinance, rule or regulation is at issue, the City shall defend the same at its sole expense and if judgment is entered or damages are awarded against the City, the County or both, the City shall satisfy the same, including all chargeable costs and attorney's fees.

C. The City shall indemnify and hold harmless the County and its officers, agents and employees, or any of them, from any and all claims, actions, suits, liability, loss, costs, expenses and damages of any nature whatsoever, by reason of or arising out of any ~~action~~ negligent action or omission of the City, its officers, agents and employees, or any of them, relating to or arising out of the performance of this Agreement. In the event that any suit based on such a claim, action, loss or

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damage is brought against the County, the City shall defend the same at its sole cost and expense; provided that the County reserves the right to participate in said suit if any principle of governmental law is involved; and if final judgment be rendered against the County, and its officers, agents and employees, or any of them, or jointly against the County and their respective officers, agents and employees, or any of them, the City shall satisfy the same.

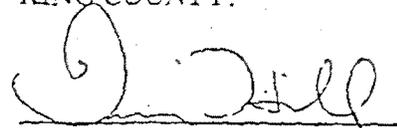
IN WITNESS WHEREOF, the parties hereto have executed this agreement on the \_\_\_\_\_ of \_\_\_\_\_, 19\_\_.

Approved as to form:



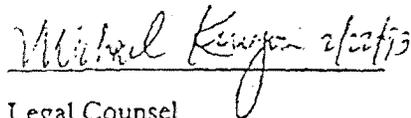
Deputy Prosecuting Attorney

KING COUNTY:



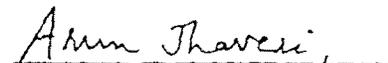
King County Executive

Approved as to form:



Legal Counsel

CITY OF BURIEN:



City Manager, Mayor

Description of Contract Services

King County will collect the surface water management service charge revenue for Burien, which the City will use to finance its surface water management program. Services supporting the program will be provided under this contract by King County, with service costs detailed on Exhibit Two. Services to be provided are described below:

**Basin Planning.** Participation in the Miller/Salmon/Seola Basin Plan, of which the City of Burien occupies 57%. Basin planning is a long-range, comprehensive watershed management tool, providing solutions to surface-water related problems, identifying resource protection measures, and providing strategies for protecting persons and property from uncontrolled surface water runoff. Mapping of the natural and constructed drainage system is included as an underlying element of the Basin Plan.

**Drainage Investigation and Regulation.** Response to, investigation and resolution of drainage complaints from Burien residents; support for drainage-related legal claims against the City; specific enforcement actions for the City's drainage code; response to and resolution of drainage problems primarily affecting private property, under the Neighborhood Drainage Assistance Program.

**Facilities Maintenance.** Inspection and maintenance of all residential facilities and regional stormwater and drainage facilities; inspection of commercial facilities; inspection- and maintenance-related technical and analytical services; and maintenance-related action on neighborhood drainage problems primarily affecting private property, under the Neighborhood Drainage Assistance Program.

**Public Involvement.** Prevention of drainage problems and protection of aquatic resources through public awareness and education, volunteer activities, and citizen involvement in surface water management plans and policies. Specific Public Involvement activities include: stenciling of storm drains to prevent water pollution, volunteer projects, educational workshops, community stewardship grants, and publications on citizen involvement in watershed protection.

**Billing Services and Revenue Collection.** Maintaining and updating Burien's customer information database; processing and mailing billing statements and other correspondence; collecting and transferring cash receipts; incorporating surface water management fee rate changes; providing reports; and customer service.

**Neighborhood Drainage Assistance Program Capital Improvement Project.** Design and construction of a small capital facility to resolve a neighborhood drainage or flooding problem primarily affecting private property. It is expected that at least one neighborhood drainage problem best resolved by a capital solution will be identified in Burien in 1993.

**Technical Services.** Consulting-type services on the full range of surface water management issues. Services are available on an hourly basis, upon Burien's request and subject to availability of provider SWM staff.

Schedule of 1993 Revenue and Service Costs

	\$	<u>Notes/Assumptions</u>
<u>Revenue Estimate</u>	<u>898,942</u>	1994 revenue is projected at \$1,200,000
<u>Service Costs</u>		
Miller/Salmon/Scola Basin Plan Drainage Mapping for Basin Plan	431,429	1994 costs = \$223,739. 1995 costs = \$56,111.
• Off-road	87,441	
• In-road	103,079	
Subtotal	621,949	
Drainage Investigation and Regulation		
• Complaint Investigation, Response, Resolution	30,560	Figures represent projected 1993 needs, based on historical averages for numbers and types of services performed in Burien.
• Regulation Enforcement	4,666	
• Neighborhood Drainage Assistance Program	4,826	
Subtotal	40,052	
Facilities Maintenance		
• Regional Stormwater Facility Maintenance and Inspection	23,200	28 storm facilities
• Stormwater Facility Technical Engineering Services	8,671	
• Residential Facility Inspection	1,455	Six residential facilities
• Residential Facility Maintenance	2,300	
• Commercial Facility Inspection	22,165	154 commercial facilities
• Analytical and Technical Support	8,429	
• Neighborhood Drainage Assistance Program	4,878	
Subtotal	71,098	
Public Involvement		
• Storm drain Stenciling	6,220	Two events
• Volunteer project	7,001	One event
• Workshop	8,550	One event
• Community Stewardship Grant	10,887	Three grants. Amount does not include grant funds.
Subtotal	32,658	
Neighborhood Drainage Assistance Program Small Capital Project	50,000	\$25,000 design; \$25,000 construction
Billing and Revenue Collection	34,466	Based on service for 9,118 accounts
Office of Financial Management charge for revenue collection	8,989	Based on 1% of \$898,942 (projected 1993 service charge revenue)
Technical Services		Services are provided on an hourly basis.
<b>TOTAL SERVICES</b>	<u><b>\$859,212</b></u>	Does not include amounts for large capital projects

### 1993 Surface Water Management Service Charges

There are two types of services charges: the flat rate and the sliding rate.

- The flat rate service charge of \$85.02 a year applies to single-family homes and parcels with 10% or less impervious surface.
- The sliding rate service charge applies to all other properties in the service area. The sliding rate is calculated by measuring the amount of impervious surface on each parcel and multiplying the appropriate rate by the total parcel acreage.

Several special rate categories will automatically be assigned to those who qualify:

- An exemption for any home owned and occupied by a low-income senior citizen determined by the Assessor to qualify under RCW 84.36.381.
- A discount for any parcel served by a County-approved retention/detention (R/D) facility maintained by the owner.
- A discount for any parcel (or part of a parcel) officially designated as open space.

#### 1993 Rate Table

Rate Category	Percent Impervious Surface	Annual Service Charge (\$)
1) Residential: single-family home		85.02/parcel
2) Very Light	less than or equal to 10%	85.02/parcel
3) Light	more than 10%, less than or equal to 20%	198.40/acre
4) Moderate	more than 20%, less than or equal to 45%	410.98/acre
5) Moderately Heavy	more than 45%, less than or equal to 65%	793.60/acre
6) Heavy	more than 65%, less than or equal to 85%	1006.16/acre
7) Very Heavy	more than 85%, less than or equal to 100%	1317.94/acre

#### Rate Adjustments

Any person receiving a bill may file a request for a rate adjustment within two years of the billing date. (Filing a request will not extend the payment period.)

Property owners should file a request for a change in the rate assessed if:

- the property acreage is incorrect;
- the measured impervious surface is incorrect;
- the property is charged a sliding fee when the fee should be flat;
- the person or property qualifies for an exemption or discount; or
- the property is wholly or in part outside the service area.

# EXHIBIT FOUR

Table 1. Miller/Salmon/Seola BASIN PLANNING COSTS  
SUMMARY SHEET

Calendar Year	Category	Total Costs
1992 actual	Staff costs (salary, benefits, pto)	\$70,688
	Contracts	\$2,498
	Operations	\$2,937
	Totals	\$76,123
1993	Staff Costs	\$580,900
	Contracts	\$159,800
	Operations	\$16,193
	Totals	\$756,893
1994	Staff Costs	\$379,518
	Operations	\$13,006
	Totals	\$392,524
1995	Staff Costs	\$88,935
	Operations	\$9,506
	Totals	\$98,441
<b>Basin Planning Total</b>		<b>\$1,323,981</b>

### Drainage Mapping

1993	Unincorp. Areas - ROW [No cost estimate: Roads will do this as part of their normal agency work]	
	Unincorp. Areas - Offroads	\$32,424
	Burien - ROW	\$103,079
	Burien - Offroads	\$87,441
	SeaTac in Miller - ROW (a)	\$20,647
	SeaTac in Miller - Offroads	\$17,732
	Totals	\$261,523

(a) Derived by proportionally extending the Burien mapping cost. Roads will develop an actual estimate.

<b>Grand Total</b>	<b>\$1,585,504</b>
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TABLE 2. FOUR-YEAR BASIN PLANNING COSTS SUMMARY (1992-1995)

Calendar Year	Activity and Duration	Category	Total Costs	Staff (Est. FTE)
1992	Actual Costs Scoping	Staff	\$70,000	
		Operations & contracts	\$5,425	
		<b>Total</b>	<b>\$70,525</b>	
1993	Scoping, Data Collection, Conditions Report, Solutions Development, and Team Draft Basin Plan	Hydraulics & Engineering	\$185,001	1.29
		Geology	\$18,893	0.17
		Hydrology	\$34,115	0.36
		Aquatic Resources	\$83,737	0.91
		Water Quality	\$74,244	0.65
		Planning & Management	\$115,827	1.40
		Cartography	\$89,000	0.92
		Contracts (53104)	\$126,800	
		DPH loan-in	\$30,000	
		Operations	\$16,193	
<b>Total</b>	<b>\$756,893</b>	<b>5.70</b>		
1994	Solutions Development, Preliminary Plan, through revisions to final	Hydraulics & Engineering	\$106,744	0.58
		Geology	\$4,959	0.04
		Hydrology	\$44,057	0.43
		Aquatic Resources	\$21,852	0.30
		Water Quality	\$50,993	0.41
		Planning & Management	\$70,169	1.01
		Cartography	\$70,723	0.67
		Operations	\$13,006	
<b>Total</b>	<b>\$392,524</b>	<b>3.44</b>		
1995	Executive-proposed (final) Basin Plan through Adoption	Hydraulics & Engineering	\$5,533	0.04
		Geology	\$1,041	0.01
		Hydrology	\$9,487	0.09
		Aquatic Resources	\$972	0.01
		Water Quality	\$11,266	0.05
		Planning & Management	\$44,567	0.42
		Cartography	\$15,548	0.19
		Operations	\$9,506	
<b>Total</b>	<b>\$99,217</b>	<b>0.83</b>		

<b>Basin Planning Subtotal:</b>	<b>\$1,223,995</b>	<b>12.45</b>
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Calendar Year	Activity and Duration	Category	Total External Costs	Staff (Est. FTE)
1993	Drainage mapping by SWM	Unincorporated areas (White Center, North Hill)	\$32,404	0.42
		City of Sunen	\$87,441	1.14
		City of SeaTac in Miller Creek	\$17,722	0.23
		<b>Subtotal</b>	<b>\$137,567</b>	<b>1.79</b>
		Drainage mapping by Roads	Unincorporated areas (White Center, North Hill)	[No cost estimate: Roads will do this as part of their normal agency work]
City of Sunen	\$103,079	[not calc.]		
City of SeaTac in Miller Creek (a)	\$20,647	[not calc.]		
<b>Subtotal</b>	<b>\$123,726</b>	<b>[not calc.]</b>		
<b>Total</b>	<b>\$261,293</b>	<b>1.79</b>		

<b>GRAND TOTAL (b):</b>	<b>\$1,485,288</b>	<b>14.25</b>
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(a) Derived by proportionally extending the Burien mapping cost. Roads will develop an actual estimate.  
 (b) "Grand Total" includes 1992-1995 Dollars (inflation rate 5% annually)

MILLER/SALMON/SEOLA BASIN PLAN  
Preliminary Draft Scope of Work—February 1993

The Surface Water Management Division of King County Department of Public Works is preparing comprehensive surface water basin plans for the drainages in western King County. Work is now beginning on the Salmon, Miller, and Seola Creek Basin Plan, which will be developed cooperatively with the cities of Burien, Normandy Park, Sea-Tac, and Seattle.

Basin plans document the current state of surface water drainage, constructed drainage systems, water quality, and aquatic resources of the affected basins, review applicable direction in community plans and other documents, and identify current problems and the probable outcomes of current trends. The plans develop responsive measures to address drainage, flooding, and water quality problems, protect and rehabilitate aquatic resources, and avoid or minimize future problems and damage.

Background: The Miller/Salmon/Seola basin planning area is located in southwestern King County along the shore of Puget Sound. It is a collection of several small drainage systems that originate on the plateau and flow into the Sound (see the accompanying map). The planning area includes portions of the cities of Normandy Park, Sea-Tac, and Seattle, the entire new city of Burien, and the White Center community and part of the North Hill neighborhood in unincorporated King County.

These urban basins have considerable residential and commercial development and have nearly attained build-out conditions. An important consequence of this development is the large increase in stormwater flows and associated flooding. The constructed drainage system has been developed over several decades with no overall planning or integration; a number of problems have arisen as a result of the somewhat "stitched-together" nature of the drainage system. The high level of development and density of roads contribute to the deterioration of water quality that is observed in the basin. Erosion and landsliding have occurred in a number of locations. Most of the original wetlands have been filled, and many sections of the streams have been diverted into pipes or lined with riprap, with consequent reduction of both stormwater management and habitat values.

Previous hydrologic work in this planning area and vicinity includes the surface water basin plan prepared by King County for the Hylebos Creek basin and the southern portion of the Lower Puget Sound basins, the draft (1992) Flood Control Management Plan prepared by Normandy Park for its portion of Walker and Miller creeks, the plan developed in 1988 by the City of Seattle for its portion of Seola Creek basin, aquifer analyses prepared for the Seattle Water Department in connection with the Highline Wellfield, and analysis in support of several capital improvement projects by the County.

The new surface water basin plan for the Miller/Salmon/Seola area will be produced primarily by King County Surface Water Management Division personnel. Initial assessment has identified addressing flooding problems, improving and protecting water quality, and addressing problems with the constructed drainage system as the most significant issues for the basin plan.

### M/S/S Basin Plan Objectives

- I. **Public Involvement and Agency Coordination.** Involve the public and agencies in basin plan development and implementation using:
  - A. A Citizens' Advisory Committee that includes knowledgeable and interested individuals from the local area who can speak from a variety of viewpoints and perspectives, and who can assist the County in developing and prioritizing solutions;
  - B. A Technical Advisory Team with County, cities, tribal, regional, state, and federal agency representatives that participates in scoping and document review;
  - C. Interlocal agreements with the cities in the planning area;
  - D. Public meetings during scoping and after release of the draft plan;
  - E. Mailings of basin plan notices and information; and
  - F. Community stream-based activities.
  
- II. **Current and Future Conditions Report.** Prepare a report that assesses land use/land cover and the condition of streams, lakes, wetlands, and man-made conveyance systems and predicts how development will affect surface water resources in the future. Include the following elements:
  - A. Database, Land Use and Mapping. Collect project data (such as geology, topography, land cover and community plan designations, zoning and lot sizes, impervious surface percentages, sediment yields, characteristics of streams, lakes, and wetlands, floodplains, instream structures, water quality information, surface water problem locations and characteristics, significant resource areas, and measures and recommendations of the basin plan), enter into geographic information system (GIS) databases, and use the GIS to produce maps and assist in analyses. Map the constructed drainage system. Coordinate with the development of the White Center Update to the Highline Community Plan. A consultant will be contracted to produce the land-use/land-cover map. Initial scoping indicates that the basin planning area is close to build-out based on the underlying zoning, and that there will be little opportunity to address problems through changes in land-use designations.
  
  - B. Hydrology. Establish gaging stations and record streamflows. Determine subcatchments and evaluate peak flows and flow durations under pre-developed, current, and future land-use conditions. In the Miller Creek basin an Hydrologic Simulation Program—Fortran (HSP—F) model will probably be used, and a Surface Water Management Model (SWMM) will likely be used for Seola Creek; the appropriate program to use for Salmon Creek has yet to be determined. Calibrate the models to regional and local gage and precipitation data and identify 2-, 10-, 25-, and 100-year flows at the outlet of each subcatchment. Coordinate data needs and

modeling results with hydraulic, sediment transport, and habitat analyses. Evaluate performance of existing retention/detention ponds. Analyze the hydrologic benefits of possible new regional R/D facilities. A consultant will be contracted to develop the hydrologic models, conduct the hydrologic analyses, and generate appropriate flow series information for hydraulic analyses. Initial scoping suggests that urbanization-related changes in hydrology, and the performance of the constructed drainage system, will be major foci of this analysis.

- C. Hydraulics. Evaluate the effect of current and future hydraulic conditions on erosion, habitat problems, and localized flooding using computer backwater modeling and drainage system analysis. Map identified and predicted problems to determine geographic and systemic patterns. Use data sources including field observations, records of other agencies, sections, and divisions, HSP-F-modeled current and future flows, and 1992 aerial photographic coverage. Initial scoping suggests that the contribution of hydraulic conditions to flooding and erosion will be a major focus of this analysis.
- D. Geology, Erosion and Sedimentation. Prepare a geologic map of the basin that shows the distribution of surficial deposits. Describe the characteristics of the deposits, environments of deposition, stratigraphic relationships (vertical layering), and implications for groundwater recharge, movement, and discharge. In combination with topographic information, identify those areas with a particularly high susceptibility for rapid stream-channel erosion and landslide hazard. Update the maps for landslide and erosion hazard areas. Evaluate the major stream channels in the basin for susceptibility to erosion from increased flows, and identify likely repositories of the eroded sediment. Initial scoping suggests that erosion and sedimentation will be concerns in several locations.
- E. Aquatic and Wetlands Habitat. Conduct an analysis of the current and future conditions of stream and wetland habitat and fisheries using field observations from stream and wetlands inventories, spawning surveys, and other fish population and habitat problem-related data. The analysis will include: identification and mapping of spawning and rearing areas, problem areas and code violations amenable to restoration or enhancement, and unique/sensitive habitats and species; evaluation of habitat effects of increased flows at culverts and in sensitive habitat reaches using modeled flow data; comparative analysis of stream and wetland habitat changes and loss using historic and current photographs and mapping; evaluation of riparian characteristics and conditions; evaluation of pollution effects on habitat quality. Initial scoping suggests that, due to the high level of development in the basins, opportunities for aquatic and wetland habitat enhancement and restoration will be limited in comparison with previous plans.

- F. Water Quality. Prepare a water quality assessment based on existing data (land use, water quality, habitat, biologic conditions). Survey and characterize nonpoint sources of pollution. Differentiate between nonstorm and storm nonpoint pollutant problems where data are available. Identify, map, and rank beneficial uses and problem areas. Identify order of magnitude land use-related changes in water quality using existing data and loadings developed for different land uses/cover types. Identify concerns regarding the Seattle Water Department's Highline Wellfield, and identify surface water pollution sources that could affect the aquifer. Evaluate pollution effects on aquatic habitat quality. Initial scoping suggests that nonpoint pollution issues will be a major focus of this analysis.
  - G. Problem Ranking and Evaluation. Compare and rank significant surface water problems and resources.
- III. Basin Plan. Develop a watershed management strategy that addresses and reduces significant surface water problems, and protects and enhances water quality and aquatic resources, including:
- A. Capital projects and other measures to address significant current problems;
  - B. Basin-wide and area-specific drainage and sensitive areas regulations;
  - C. Area-specific changes in County programs, such as public education, code enforcement, cooperative programs, and drainage facility maintenance;
  - D. Water quality measures and stream habitat improvement projects;
  - E. An assessment of the effectiveness, feasibility, and cost of recommended solutions to problems; and
  - F. Priorities, schedules, funding, responsibilities, and staffing requirements for implementation.
- IV. Adoption and Implementation of Plan. Prepare documents as necessary for plan adoption and implementation, including:
- A. Ordinances and motions;
  - B. SEPA checklist and threshold determination;
  - C. Program and project proposals, and budget documents; and

D. Implementation guidelines.

- V. **Monitoring and Update Program.** Develop and implement a baseline monitoring program that will continue after adoption of the basin plan. Hire a basin steward (may be shared with Hylebos or Green River planning areas) to coordinate monitoring and to assist the public. Assess plan implementation and basin conditions periodically and update the plan as needed.

