



CITY COUNCIL MEETING AGENDA

July 16, 2012

6:00 p.m. - Special Meeting: to hold a discussion on naming committee members to prepare pro and con statements for the North Highline Annexation Ballot Measure

6:15 p.m. - Special Meeting: Executive Session to discuss potential litigation and real estate acquisition

7:00 p.m. – Regular Meeting

PAGE NO.

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|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|
| 1. CALL TO ORDER | 2. PLEDGE OF ALLEGIANCE | 3. ROLL CALL | |
| 4. AGENDA CONFIRMATION | | | |
| 5. PUBLIC COMMENT | Individuals will please limit their comments to three minutes, and groups to five minutes. | | |
| 6. CORRESPONDENCE FOR THE RECORD | a. Email Dated June 29, 2012, from Joan Anderson Regarding Equality. | | 3. |
| | b. Written Comments for Meeting of July 2, 2012, from C. Edgar Regarding Request for Amendment to Land Use Map. | | 5. |
| | c. Email Dated July 4, 2012 from Hans Leistina Regarding Fire Works at Mormon Church. | | 7. |
| | d. Email Dated July 11, 2012, from Chris Smith-Clark Regarding July 2 City Council Meeting. | | 9. |
| 7. CONSENT AGENDA | a. Approval of Vouchers: Numbers 32055 - 32161 in the Amounts of \$244,063.46 with Voided Check Nos. 32056 - 32058. | | 11. |
| | b. Approval of Minutes: Regular Council Meeting, July 2, 2012. | | 27. |
| | c. Adopt Ordinance No. 563, Amending Criminal Code Relating to False Statements to Police Officers and 911 Dispatchers. | | 31. |
| 8. BUSINESS AGENDA | a. Presentation of the Century Agenda by the Port of Seattle. | | |
| | b. Presentation of the Lora Lake Clean-Up by the Washington State Department of Ecology. | | |
| | c. Discussion on and Motion to Appoint Members to Prepare Pro and Con Statements for the Proposed North Highline Annexation Area Ballot Measure. | | 33. |
| | d. Presentation and Discussion on the Drainage Master Plan. | | 39. |
| | e. Review of Proposed Council Agenda Schedule. | | 209. |
| | f. City Business | | 223. |
| 9. COUNCIL REPORTS | | | |
| 10. ADJOURNMENT | | | |

COUNCILMEMBERS

Brian Bennett, Mayor	Rose Clark, Deputy Mayor	Jack Block, Jr.	
Bob Edgar	Lucy Krakowiak	Joan McGilton	Gerald F. Robison

City Hall, 400 SW 152nd Street, 1st Floor

Carol Allread

From: Public Council Inbox
Sent: Friday, June 29, 2012 2:49 PM
To: 'Joan Anderson'
Subject: RE: Equality

Dear Ms. Anderson,

Thank you for writing to the City Council to express your concerns. Your email will be included in a future Council agenda packet as Correspondence for the Record.

Sincerely,

Carol Allread
Executive Assistant, City Manager's Office
City of Burien
(206) 248-5508 Office
(206) 248-5539 Fax
carola@burienwa.gov

From: Joan Anderson [<mailto:jcanderson560@gmail.com>]
Sent: Friday, June 29, 2012 1:29 PM
To: Public Council Inbox
Subject: Equality

Dear Mr. Bennett,

I saw the list of the Mayors for the Freedom to Marry,
<http://www.google.fr/url?sa=t&rct=j&q=mayors+for+freedom+marry&source=web&cd=1&ved=0CCsQFjAA&url=http%3A%2F%2Fwww.freedomtomarry.org%2Fpages%2Fmayors-for-the-freedom-to-marry&ei=Hgs2T466JqGm0QXXitCqAg&usg=AFQjCNffZEz-caUf04uExSk-JATunekOOg> (direct link).
There are 243 Mayors on the list now, like Des Moines, Ferndale, Issaquah, Kirkland, Olympia, Redmond, Seattle, Shoreline, Stanwood, Tacoma, Vancouver in Washington.

Same gender marriage is not allowed in Washington and you may know that even married same gender couples are unequal because of a law called DOMA. This is downright discrimination and this means real hardship for many families like mine.

Maybe you do not know of this bipartisan initiative. Equal opportunities for all citizens regardless their differences is consistent with the true spirit of our Nation, enshrined in our Constitution. I hope that you will take a stand for justice and join these mayors, like our President did and countless civil rights associations.

Thank you.

Joan Anderson

jcanderson560@gmail.com

CFTR: 7/16/02

cc: Mike Martin, City manager
Nhan Nguyen, management
Analyst



CITY OF BURIEN, WASHINGTON

Written Public Comments For Meeting Of July 2, 2012

For those who do not wish to speak, but would like to make comments, please use this sheet. Your comments will be summarized and become part of the permanent record for this Council meeting. You may leave your completed sheet with the City Clerk. Thank you.

To The Burien City Council;

Once again McGilton has gotten the facts wrong on the request for an Amendment to the Land Use Map. The current land use for the Lake Burien Neighborhood allows for greater than 4 units per acre. The Lake Burien neighborhood is requesting that the land use density be kept at no greater than 4 units per acre. She has confused the issue by stating that she thinks the neighborhood is requesting 3 units per acre. Sadly, Mr. Greenburg did not correct her misconception on this issue. He understands the density well as he has worked for the City of Burien for an excess of 15 years. Also the Amendment to change the Land Use Map did not appear before the Council

Name: C. Edger

Address: 1811 SW 152nd St

City / Zip Code: 98166

Telephone: _____

last year but in 2010. She gave the wrong dates, wrong recall of what the advocates asked for and the wrong density numbers

CFTR: 07/16/12

cc: Scott Greenburg, Community Development Director

Carol Allread

From: Carol Allread on behalf of Burien
Sent: Friday, July 06, 2012 1:56 PM
To: 'Hans Leistina'; Burien
Cc: Cindy Andrus
Subject: RE: Fireworks at Mormon Church 200 - 177th Place Suth, Burien

Dear Mr. Leistina,

Thank you for writing to express your concerns. Your email will be included in a future Council agenda packet as Correspondence for the Record.

In the future, if you wish for your correspondence to be included in a Council agenda packet as Correspondence for the Record, please send your email to the Public Council Inbox, council@burienwa.gov.

Sincerely,

Carol Allread
Executive Assistant, City Manager's Office
City of Burien
(206) 248-5508 Office
(206) 248-5539 Fax
carola@burienwa.gov

From: Hans Leistina [mailto:hans_leistina@yahoo.com]
Sent: Wednesday, July 04, 2012 12:58 AM
To: Burien
Cc: Cindy Andrus
Subject: Fireworks at Mormon Church 200 - 177th Place Suth, Burien

Once again the Mormon Church allowed hoodlums onto their parking lot setting off dangerous fireworks.

The King County Police responded and quieted them down.

Then the King County Police called me and indicated that they were not happy at being called out for fireworks because, even though they are illegal - everyone was doing it. This was on the evening of July 3, 2012.

That Mormon Church has been told several times to control the situation on their property. Why are they not fined?

**Hans Leistina,
17431 Ambaum Boulevard South #D-35
206-433-8906**

CFTR: 07/16/12

CC: Scott Kimerer, Burien PD

Carol Allread

From: Public Council Inbox
Sent: Wednesday, July 11, 2012 9:38 AM
To: 'Chris Smith-Clark'
Subject: RE: July 2 City Council Meeting

Dear Chris,

Thank you for writing to the City Council to express your concerns. Your email will be included in a future Council agenda packet as Correspondence for the Record.

Carol Allread
Executive Assistant, City Manager's Office
City of Burien
(206) 248-5508 Office
(206) 248-5539 Fax
carola@burienwa.gov

From: Chris Smith-Clark [<mailto:CSmith-Clark@ecww.org>]
Sent: Wednesday, July 11, 2012 7:28 AM
To: Public Council Inbox
Subject: July 2 City Council Meeting

I watched part of the meeting and must say that I cannot understand Mr. Martin's statement that it is impossible to determine what amount of staff time is spent on the annexation process. As an accountant with over 30 years of fund accounting, I can tell you this is very commonly done and is not at all complicated. I would suggest that if this is, in fact, something about which the Council wants information, perhaps the Finance Department could explain to the city manager how this is done.

CFTR: 07/16/12

cc: mike martin, City Manager
Nhan Nguyen, Management Analyst

COMPUTER CHECK REGISTER

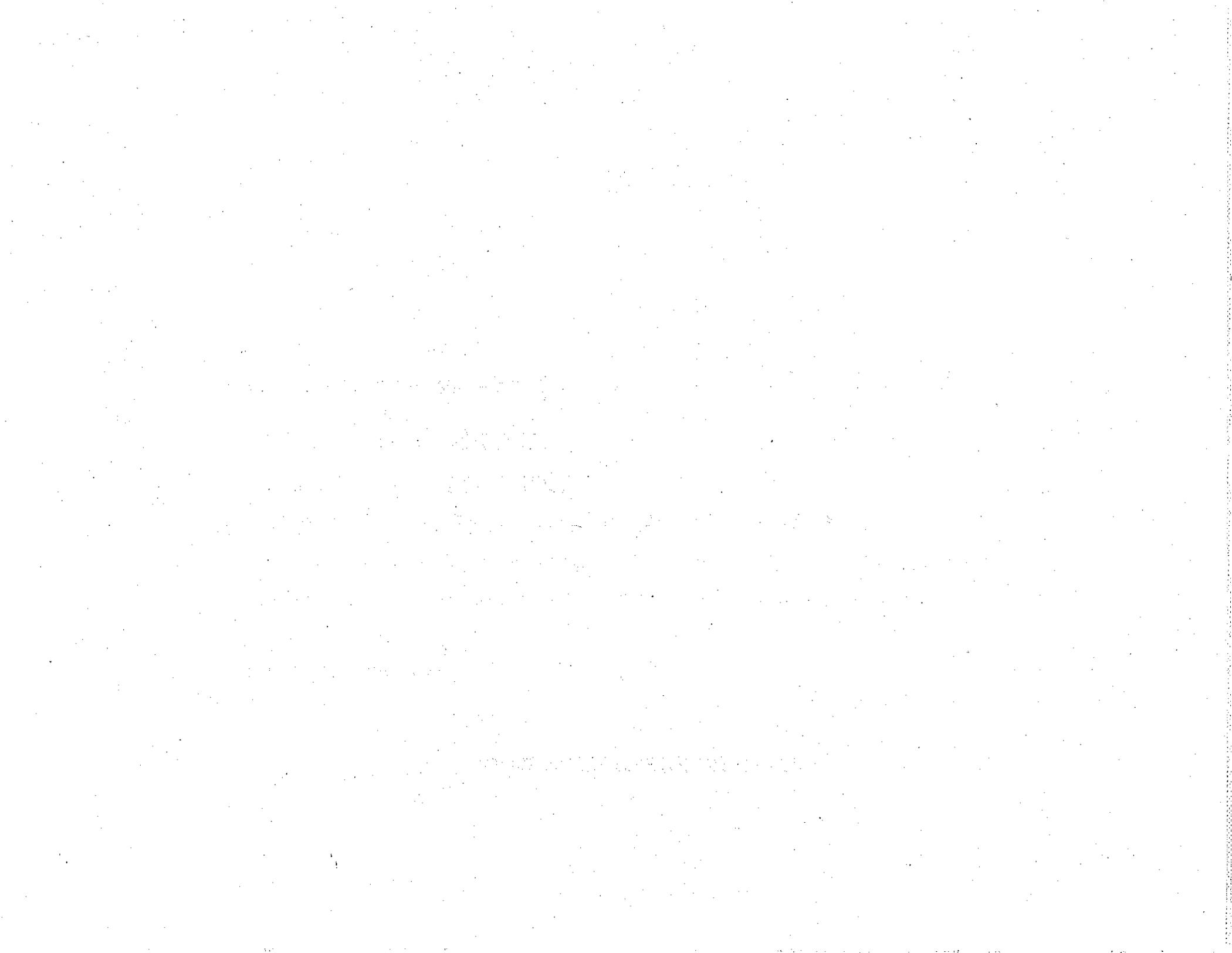
CHECK REGISTER APPROVAL

WE, THE MEMBERS OF THE CITY COUNCIL OF BURIEN, WASHINGTON, HAVING RECEIVED DEPARTMENT CERTIFICATION THAT MERCHANDISE AND/OR SERVICES HAVE BEEN RECEIVED OR RENDERED, DO HEREBY APPROVE FOR PAYMENT ON This 16th day of July 2012 the FOLLOWING:

CHECK NOS. 32055 – 32161

IN THE AMOUNTS OF \$244,063.46

WITH VOIDED CHECK NOS. 32056-32058



Accounts Payable
Checks for Approval



User: CathyR
Printed: 07/12/2012 - 8:04 AM

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
32055	07/16/2012	Street Fund	Office And Operating Supplies	ACE Hardware		1.41
32055	07/16/2012	Surface Water Management Fund	Office And Operating Supplies	ACE Hardware		43.22
32055	07/16/2012	Surface Water Management Fund	Office And Operating Supplies	ACE Hardware		15.86
Check Total:						60.49
32056	07/16/2012	General Fund	Subscriptions/publications	Attorney's Eagle Eye Service	59.13	0.00
Check Total:						0.00
32057	07/16/2012	General Fund	Prof. Svcs-instructors	Pamela Ann Allen	1,006.20	0.00
Check Total:						0.00
32058	07/16/2012	Street Fund	Repairs And Maintenance	Alpine Fence Company	1,075.66	0.00
32058	07/16/2012	Street Fund	Repairs And Maintenance	Alpine Fence Company	245.76	0.00
32058	07/16/2012	Street Fund	Repairs And Maintenance	Alpine Fence Company	56.39	0.00
Check Total:						0.00
32059	07/16/2012	Street Fund	Office And Operating Supplies	Alpine Products Inc		604.44
32059	07/16/2012	Street Fund	Office And Operating Supplies	Alpine Products Inc		193.27
Check Total:						797.71
32060	07/16/2012	General Fund	Dues/memberships	American Society Composers, Au		325.50
Check Total:						325.50
32061	07/16/2012	General Fund	Registration - Trainng/workshp	Active Shooter Training LLC		325.00

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	325.00
32062	07/16/2012	General Fund	Telephone	A T & T		51.38
					Check Total:	51.38
32063	07/16/2012	Art in Public Places Fund	Works of Art	Augustina Droze Mural Studio I		3,000.00
					Check Total:	3,000.00
32064	07/16/2012	General Fund	Office and Operating Supplies	LISA AUMANN		61.49
					Check Total:	61.49
32065	07/16/2012	Surface Water Management Fund	Professional services	A WorkSAFE Service Inc		26.00
32065	07/16/2012	Street Fund	Professional Services	A WorkSAFE Service Inc		26.00
					Check Total:	52.00
32066	07/16/2012	General Fund	Telephone	JACK BLOCK, JR.		55.48
					Check Total:	55.48
32067	07/16/2012	General Fund	Instructors Prof Svcs	Lucas Bonnema		390.00
					Check Total:	390.00
32068	07/16/2012	General Fund	Instructors Prof Srvs	Brent Botkin		125.00
					Check Total:	125.00
32069	07/16/2012	General Fund	Annexation	Brim Press, LLC		410.63
					Check Total:	410.63
32070	07/16/2012	General Fund	Prof. Svcs-instructors	Viola Brumbaugh		1,165.45
					Check Total:	1,165.45
32071	07/16/2012	Street Fund	Office And Operating Supplies	Bryant's Tractor & Mower Inc		142.45
32071	07/16/2012	Surface Water Management Fund	Office And Operating Supplies	Bryant's Tractor & Mower Inc		142.45

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	284.90
32072	07/16/2012	Street Fund	Repairs & Maint. - Fleet	Burien Chevrolet		129.89
32072	07/16/2012	Surface Water Management Fund	Repairs & Maint. - Fleet	Burien Chevrolet		129.88
					Check Total:	259.77
32073	07/16/2012	General Fund	Small Tools & Minor Equipments	CDW-G		151.21
32073	07/16/2012	General Fund	Office And Operating Supplies	CDW-G		65.08
					Check Total:	216.29
32074	07/16/2012	General Fund	Telephone	ROSE CLARK		53.62
					Check Total:	53.62
32075	07/16/2012	General Fund	Office and Operating Supplies	Clay Art Center Inc		907.15
32075	07/16/2012	General Fund	Office and Operating Supplies	Clay Art Center Inc		54.03
					Check Total:	961.18
32076	07/16/2012	General Fund	Telephone	CenturyLink		60.82
					Check Total:	60.82
32077	07/16/2012	General Fund	Code Supplement	Code Publishing Co.		6,994.86
					Check Total:	6,994.86
32078	07/16/2012	General Fund	Office/operating Supplies	Complete Office		320.89
32078	07/16/2012	General Fund	Office/operating Supplies	Complete Office		361.25
32078	07/16/2012	General Fund	Office And Operating Supplies	Complete Office		280.86
32078	07/16/2012	General Fund	Office And Operating Supplies	Complete Office		280.86
32078	07/16/2012	General Fund	Office And Operating Supplies	Complete Office		361.25
32078	07/16/2012	General Fund	Office And Operating Supplies	Complete Office		40.02
32078	07/16/2012	General Fund	Office/Operating Supplies	Complete Office		40.02
32078	07/16/2012	General Fund	Office And Operating Supplies	Complete Office		40.02
32078	07/16/2012	General Fund	Repairs And Maintenance	Complete Office		136.88
32078	07/16/2012	General Fund	Office And Operating Supplies	Complete Office		1,282.79
					Check Total:	3,144.84

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
32079	07/16/2012	General Fund	Instructors Prof Svcs	Janet S. Crawley		264.00
32079	07/16/2012	General Fund	Prof. Svcs-instructors	Janet S. Crawley		235.20
Check Total:						499.20
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		64.21
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		44.63
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		67.25
32080	07/16/2012	Surface Water Management Fund	Utilities	City of Seattle		17.92
32080	07/16/2012	General Fund	Utilities	City of Seattle		10.63
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		16.60
32080	07/16/2012	Surface Water Management Fund	Utilities	City of Seattle		18.06
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		79.01
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		47.05
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		78.78
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		44.78
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		78.40
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		83.79
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		52.75
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		16.68
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		30.13
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		167.66
32080	07/16/2012	General Fund	Utilities	City of Seattle		452.36
32080	07/16/2012	General Fund	Utilities	City of Seattle		412.68
32080	07/16/2012	General Fund	Utilities	City of Seattle		1,328.33
32080	07/16/2012	General Fund	Utilities	City of Seattle		674.00
32080	07/16/2012	General Fund	Utilities	City of Seattle		62.23
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		8.96
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		130.54
32080	07/16/2012	Street Fund	Utilities - Traffic Signals	City of Seattle		8.68
Check Total:						3,996.11
32081	07/16/2012	General Fund	State Lobbying Services	Michael D. Doubleday		2,907.00
32081	07/16/2012	General Fund	Federal Lobbying Services	Michael D. Doubleday		2,000.00
Check Total:						4,907.00
32082	07/16/2012	General Fund	Postage	BOPHARY DU		80.00
Check Total:						80.00
32083	07/16/2012	General Fund	Prof. Svcs-instructors	Kristin Dunlap		56.25

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	56.25
32084	07/16/2012	General Fund	Office and Operating Supplies	Destiny Worldwide		438.55
					Check Total:	438.55
32085	07/16/2012	General Fund	Repairs & Maint. - Fleet	Elidrew, LLC		11.83
					Check Total:	11.83
32086	07/16/2012	General Fund	Telephone	Robert Edgar		69.95
					Check Total:	69.95
32087	07/16/2012	Transportation CIP	Transpo Master Plan	Fehr and Peers		4,500.00
					Check Total:	4,500.00
32088	07/16/2012	Street Fund	Repairs & Maint. - Fleet	Jim Firestone		226.53
32088	07/16/2012	Surface Water Management Fund	Repairs & Maint. - Fleet	Jim Firestone		226.52
					Check Total:	453.05
32089	07/16/2012	General Fund	Fuel/gas consumption	Wright Express FSC		135.80
32089	07/16/2012	General Fund	Fuel/gas/gasoline Consumption	Wright Express FSC		436.16
32089	07/16/2012	General Fund	Fuel/gas/gasoline Consumption	Wright Express FSC		618.87
32089	07/16/2012	General Fund	Fuel/Gas Consumption	Wright Express FSC		64.62
32089	07/16/2012	General Fund	Fuel/gas/gasoline Consumption	Wright Express FSC		272.16
32089	07/16/2012	Street Fund	Fuel/gas/gasoline consumption	Wright Express FSC		1,833.99
32089	07/16/2012	Surface Water Management Fund	Fuel/gas/gasoline consumption	Wright Express FSC		2,727.55
					Check Total:	6,089.15
32090	07/16/2012	General Fund	Instructors Prof Svcs	Pam Fredback		84.00
					Check Total:	84.00
32091	07/16/2012	General Fund	Professional Services	Keira Verlee Fusman		700.00
					Check Total:	700.00
32092	07/16/2012	General Fund	Instructors Prof Svcs	Carol Gouthro		270.00

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	270.00
32093	07/16/2012	General Fund	Parks Building Security	Guardian Security		65.00
					Check Total:	65.00
32094	07/16/2012	General Fund	Instructors Prof Svcs	Victoria E. Hamilton		462.00
32094	07/16/2012	General Fund	Instructors Prof Svcs	Victoria E. Hamilton		126.00
					Check Total:	588.00
32095	07/16/2012	General Fund	Prof. Svcs-instructors	Henry Hart		178.00
					Check Total:	178.00
32096	07/16/2012	Surface Water Management Fund	Minor Tools & Equipment	HOME DEPOT		98.00
32096	07/16/2012	Street Fund	Small Tools & Minor Equipments	HOME DEPOT		98.00
32096	07/16/2012	Surface Water Management Fund	Office And Operating Supplies	HOME DEPOT		154.20
32096	07/16/2012	Street Fund	Office And Operating Supplies	HOME DEPOT		154.21
32096	07/16/2012	Surface Water Management Fund	Minor Tools & Equipment	HOME DEPOT		76.64
32096	07/16/2012	Street Fund	Small Tools & Minor Equipments	HOME DEPOT		76.63
32096	07/16/2012	Surface Water Management Fund	Office And Operating Supplies	HOME DEPOT		6.30
32096	07/16/2012	Street Fund	Office And Operating Supplies	HOME DEPOT		6.30
					Check Total:	670.28
32097	07/16/2012	Street Fund	Repairs And Maintenance	HDS White Cap Const. Supply		56.72
					Check Total:	56.72
32098	07/16/2012	Street Fund	Office And Operating Supplies	MICHAEL HURD		80.00
32098	07/16/2012	Surface Water Management Fund	Office And Operating Supplies	MICHAEL HURD		80.00
					Check Total:	160.00
32099	07/16/2012	Street Fund	Repairs And Maintenance	ICON Materials		89.37
32099	07/16/2012	Surface Water Management Fund	Repairs And Maintenance	ICON Materials		89.38
32099	07/16/2012	Street Fund	Repairs And Maintenance	ICON Materials		245.55
32099	07/16/2012	Surface Water Management Fund	Repairs And Maintenance	ICON Materials		245.54
32099	07/16/2012	Street Fund	Repairs And Maintenance	ICON Materials		61.21
32099	07/16/2012	Surface Water Management Fund	Repairs And Maintenance	ICON Materials		61.20
32099	07/16/2012	Street Fund	Repairs And Maintenance	ICON Materials		200.78

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
32099	07/16/2012	Surface Water Management Fund	Repairs And Maintenance	ICON Materials		200.77
					Check Total:	1,193.80
32100	07/16/2012	General Fund	Operating Rents & Leases	RICOH USA Inc		455.54
32100	07/16/2012	General Fund	Operating Rents & Leases	RICOH USA Inc		760.11
					Check Total:	1,215.65
32101	07/16/2012	General Fund	Telephone	LUCY KRAKOWIAK		54.99
					Check Total:	54.99
32102	07/16/2012	Street Fund	Office And Operating Supplies	King County Fleet Adm.		1,488.17
32102	07/16/2012	Surface Water Management Fund	Office And Operating Supplies	King County Fleet Adm.		1,488.16
					Check Total:	2,976.33
32103	07/16/2012	Surface Water Management Fund	Swm Billed By King Co Roads	KING COUNTY FINANCE		8,713.55
32103	07/16/2012	Transportation CIP	Design-engineering	KING COUNTY FINANCE		11,495.34
32103	07/16/2012	Street Fund	Traffic Signal/control.mainten	KING COUNTY FINANCE		5,081.56
32103	07/16/2012	Transportation CIP	Design-engineering	KING COUNTY FINANCE		1,734.77
32103	07/16/2012	Street Fund	Professional Services	KING COUNTY FINANCE		791.60
32103	07/16/2012	Surface Water Management Fund	Swm Billed By King Co Roads	KING COUNTY FINANCE		3,579.15
32103	07/16/2012	Transportation CIP	Design-engineering	KING COUNTY FINANCE		840.92
32103	07/16/2012	Street Fund	Traffic Signal/control.mainten	KING COUNTY FINANCE		967.47
32103	07/16/2012	Street Fund	Traffic Signal/control.mainten	KING COUNTY FINANCE		8,625.82
32103	07/16/2012	Street Fund	Professional Services	KING COUNTY FINANCE		87.96
32103	07/16/2012	Surface Water Management Fund	Swm Billed By King Co Roads	KING COUNTY FINANCE		6,384.30
					Check Total:	48,302.44
32104	07/16/2012	General Fund	Plan Review Fee Fire Dist 2	King County Fire District #2		4,142.60
					Check Total:	4,142.60
32105	07/16/2012	General Fund	Drug seizure proceeds KCSO	K.C.Sheriff-Sgt.R. Crenshaw		987.00
					Check Total:	987.00
32106	07/16/2012	General Fund	Instructors Prof Svcs	Keli Sim-DiRitis		70.00

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	70.00
32107	07/16/2012	General Fund	Public Defender	Kirshenbaum & Goss, Inc., P.S		6,100.00
					Check Total:	6,100.00
32108	07/16/2012	General Fund	Instructors Prof Svcs	Lauren Laughlin		132.00
					Check Total:	132.00
32109	07/16/2012	General Fund	Instructors Prof Svcs	Yon Lemieux		330.00
					Check Total:	330.00
32110	07/16/2012	General Fund	Prof. Svcs-instructors	Alexander Lewis		810.00
					Check Total:	810.00
32111	07/16/2012	General Fund	Prof. Svcs-instructors	Anne Marie Littleton		482.30
					Check Total:	482.30
32112	07/16/2012	General Fund	Burien/Highline Jt Venture	Latinos for Community Transfor		10,621.00
					Check Total:	10,621.00
32113	07/16/2012	General Fund	Prof. Svcs-instructors	Galina Malevannaya		120.00
					Check Total:	120.00
32114	07/16/2012	General Fund	Prof. Svcs-instructors	Jacob Matthew		676.00
					Check Total:	676.00
32115	07/16/2012	General Fund	Office And Operating Supplies	Shannon McConnell		329.32
32115	07/16/2012	General Fund	Prof. Svcs-instructors	Shannon McConnell		270.00
					Check Total:	599.32
32116	07/16/2012	General Fund	Instructors Prof Svcs	Hunter McGee		157.50

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	157.50
32117	07/16/2012	Street Fund	Street Maintenance-non-county	McLendon Hardware Inc		64.59
32117	07/16/2012	Surface Water Management Fund	Repairs And Maintenance	McLendon Hardware Inc		69.83
32117	07/16/2012	Street Fund	Street Maintenance-non-county	McLendon Hardware Inc		158.58
32117	07/16/2012	Street Fund	Special Event Clean up	McLendon Hardware Inc		327.44
32117	07/16/2012	Surface Water Management Fund	Office And Operating Supplies	McLendon Hardware Inc		106.98
32117	07/16/2012	Street Fund	Office And Operating Supplies	McLendon Hardware Inc		106.99
					Check Total:	834.41
32118	07/16/2012	General Fund	Instructors Prof Svcs	Momentum Dance Academy		385.78
					Check Total:	385.78
32119	07/16/2012	Street Fund	Dt Business License Svcs	Microflex Inc		3,770.88
32119	07/16/2012	General Fund	B&O Tax collect & audit	Microflex Inc		1,927.74
32119	07/16/2012	Street Fund	Dt Business License Svcs	Microflex Inc		164.92
32119	07/16/2012	General Fund	B&O Tax collect & audit	Microflex Inc		164.92
32119	07/16/2012	General Fund	Sales Tax Auditing Costs	Microflex Inc		112.35
					Check Total:	6,140.81
32120	07/16/2012	General Fund	Nuisance Abatement Costs	Miller Paint Co		22.73
					Check Total:	22.73
32121	07/16/2012	General Fund	Drug seizure proceeds KCSO	PAUL MULLIGAN		105.00
					Check Total:	105.00
32122	07/16/2012	General Fund	Instructors Prof Svcs	Shariana Mundi		726.00
					Check Total:	726.00
32123	07/16/2012	General Fund	Admission and Entrance Fees	Museum of Flight		354.00
					Check Total:	354.00
32124	07/16/2012	General Fund	Strawberry Festival	National Barricade Co. LLC		304.19

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	304.19
32125	07/16/2012	General Fund	Instructors Prof Srvs	New City Dance Company		878.80
					Check Total:	878.80
32126	07/16/2012	General Fund	Instructors Prof Svcs	Drew Nicklas		180.00
					Check Total:	180.00
32127	07/16/2012	General Fund	Prof. Svcs-instructors	Pamela Odegard		150.00
					Check Total:	150.00
32128	07/16/2012	Surface Water Mgmt CIP	DRAINAGE MASTER PLAN	OTAK, Inc		10,896.23
					Check Total:	10,896.23
32129	07/16/2012	Street Fund	Repairs And Maintenance	Partner Construction Products		4,626.10
					Check Total:	4,626.10
32130	07/16/2012	General Fund	Instructors Prof Svcs	Johawna Olena Perry		35.00
					Check Total:	35.00
32131	07/16/2012	Surface Water Management Fund	Repairs And Maintenance	Phoenix Environmental Services		5,835.08
					Check Total:	5,835.08
32132	07/16/2012	General Fund	Printing/binding/copying	Print Place		368.47
					Check Total:	368.47
32133	07/16/2012	General Fund	Utilities	PSE Pmt. Processing		140.00
32133	07/16/2012	General Fund	Utilities	PSE Pmt. Processing		1,439.88
32133	07/16/2012	Street Fund	Utilities-street Lighting	PSE Pmt. Processing		1,611.08
					Check Total:	3,190.96
32134	07/16/2012	Surface Water Management Fund	Surface Water Mgmt Inventory	Pipeline Video&Cleaning North		7,307.83

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	7,307.83
32135	07/16/2012	General Fund	Business & Occupation Tax	Nexlink Global Services Inc		10.00
					Check Total:	10.00
32136	07/16/2012	General Fund	Business & Occupation Tax	The Solution		10.30
					Check Total:	10.30
32137	07/16/2012	General Fund	Refund Clearing Account -Parks	Linda Sparks		60.00
					Check Total:	60.00
32138	07/16/2012	General Fund	Refund Clearing Account -Parks	Ingrid Thompson		100.00
					Check Total:	100.00
32139	07/16/2012	Street Fund	Business Licenses	Refino Services LLC		75.00
					Check Total:	75.00
32140	07/16/2012	General Fund	Printing/binding/copying	Claude McAlpin, III		352.59
					Check Total:	352.59
32141	07/16/2012	General Fund	Instructors Prof Svcs	George Rodriguez		150.00
					Check Total:	150.00
32142	07/16/2012	General Fund	Prof. Svcs-instructors	Sandra Schneider		210.00
					Check Total:	210.00
32143	07/16/2012	General Fund	Printing/binding/copying	SafeChecks		823.56
					Check Total:	823.56
32144	07/16/2012	General Fund	Instructors Prof Svcs	Deborah Schwartzkopf		500.00

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	500.00
32145	07/16/2012	General Fund	Admission and Entrance Fees	Seattle Aquarium		758.55
					Check Total:	758.55
32146	07/16/2012	General Fund	Professional Services	Nancy Shattuck		1,820.00
					Check Total:	1,820.00
32147	07/16/2012	General Fund	Utilities	Southwest Suburban Sewer Dist.		121.00
32147	07/16/2012	General Fund	Utilities	Southwest Suburban Sewer Dist.		520.26
32147	07/16/2012	General Fund	Utilities	Southwest Suburban Sewer Dist.		55.00
32147	07/16/2012	General Fund	Utilities	Southwest Suburban Sewer Dist.		55.00
32147	07/16/2012	General Fund	Utilities	Southwest Suburban Sewer Dist.		55.00
32147	07/16/2012	General Fund	Utilities	Southwest Suburban Sewer Dist.		144.33
32147	07/16/2012	General Fund	Utilities	Southwest Suburban Sewer Dist.		111.67
32147	07/16/2012	General Fund	Utilities	Southwest Suburban Sewer Dist.		391.00
					Check Total:	1,453.26
32148	07/16/2012	General Fund	Prof. Svcs-instructors	Bonnie Taschler		254.40
					Check Total:	254.40
32149	07/16/2012	Street Fund	Repairs & Maint. - Fleet	Tire Distribution Systems Inc		1,177.44
32149	07/16/2012	Surface Water Management Fund	Repairs & Maint. - Fleet	Tire Distribution Systems Inc		1,177.45
					Check Total:	2,354.89
32150	07/16/2012	General Fund	Parks Maintenance	Trugreen-landcare/NW Region		50,791.84
					Check Total:	50,791.84
32151	07/16/2012	General Fund	Operating Rentals & Leases	Valley View Sewer District		1,030.00
					Check Total:	1,030.00
32152	07/16/2012	General Fund	Prosecution - City Atty	Walls Law Firm		12,615.15
					Check Total:	12,615.15

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
32153	07/16/2012	General Fund	Prof. Svcs-instructors	Carly Waterman		90.00
					Check Total:	90.00
32154	07/16/2012	Surface Water Management Fund	Repairs & Maint. - Fleet	Washington Tractor		23.04
32154	07/16/2012	Street Fund	Repairs & Maint. - Fleet	Washington Tractor		23.04
32154	07/16/2012	Street Fund	Repairs & Maint. - Fleet	Washington Tractor		171.37
32154	07/16/2012	Surface Water Management Fund	Repairs & Maint. - Fleet	Washington Tractor		171.37
					Check Total:	388.82
32155	07/16/2012	General Fund	Utilities	Water District No 20		59.26
32155	07/16/2012	General Fund	Utilities	Water District No 20		47.90
32155	07/16/2012	General Fund	Utilities	Water District No 20		39.50
32155	07/16/2012	General Fund	Utilities	Water District No 20		404.00
32155	07/16/2012	General Fund	Utilities	Water District No 20		39.50
32155	07/16/2012	Street Fund	Landscape Maint - Utilities	Water District No 20		118.50
32155	07/16/2012	General Fund	Utilities	Water District No 20		605.40
32155	07/16/2012	General Fund	Utilities	Water District No 20		61.36
32155	07/16/2012	General Fund	Utilities	Water District No 20		76.40
32155	07/16/2012	General Fund	Utilities	Water District No 20		45.80
					Check Total:	1,497.62
32156	07/16/2012	General Fund	Probatr/public Defindr Screenng	Tammy Weigel		1,120.00
					Check Total:	1,120.00
32157	07/16/2012	General Fund	Repairs And Maintenance	Wescom		186.15
					Check Total:	186.15
32158	07/16/2012	General Fund	Office And Operating Supplies	Walter E Nelson Co		591.82
32158	07/16/2012	General Fund	Office And Operating Supplies	Walter E Nelson Co		295.91
32158	07/16/2012	General Fund	Office And Operating Supplies	Walter E Nelson Co		98.64
					Check Total:	986.37
32159	07/16/2012	General Fund	Subscriptions/publications	Attorney's Eagle Eye Service		59.13
					Check Total:	59.13
32160	07/16/2012	General Fund	Prof. Svcs-instructors	Pamela Ann Allen		1,006.20

Check Number	Check Date	Fund Name	Account Name	Vendor Name	Void	Amount
					Check Total:	1,006.20
32161	07/16/2012	Street Fund	Repairs And Maintenance	Alpine Fence Company		1,075.66
32161	07/16/2012	Street Fund	Repairs And Maintenance	Alpine Fence Company		245.76
32161	07/16/2012	Street Fund	Repairs And Maintenance	Alpine Fence Company		56.39
					Check Total:	1,377.81
					Report Total:	244,063.46

DRAFT



CITY COUNCIL MEETING MINUTES

July 2, 2012

6:00 p.m. - Special Meeting: Executive Session to discuss potential litigation and real estate acquisition

7:00 p.m. - Regular Meeting

To hear Council's full discussion of a specific topic or the complete meeting, the following resources are available:

- Watch the video-stream available on the City website, www.burienwa.gov
- Check out a DVD of the Council Meeting from the Burien Library

SPECIAL MEETING

Mayor Bennett called the Special Meeting of the Burien City Council to order at 6:00 p.m. for the purpose holding an Executive Session to discuss potential litigation per RCW 42.30.110(1)(i) and real estate acquisition per RCW 42.30.110(1)(b).

Present: Mayor Brian Bennett, Deputy Mayor Rose Clark, Councilmembers Jack Block, Jr., Bob Edgar, Lucy Krakowiak, Joan McGilton, and Gerald F. Robison.

Administrative staff present: Mike Martin, City Manager, Craig Knutson, City Attorney, and Dan Trimble, Economic Development Manager.

No action was taken.

The Special Meeting adjourned to the Regular Meeting at 6:50 p.m.

CALL TO ORDER

Mayor Bennett called the Burien City Council meeting to order at 7:00 p.m.

PLEDGE OF ALLEGIANCE

Mayor Bennett led the Pledge of Allegiance.

ROLL CALL

Present: Mayor Brian Bennett, Deputy Mayor Rose Clark, Councilmembers Jack Block, Jr., Bob Edgar, Lucy Krakowiak, Joan McGilton and Gerald F. Robison.

Administrative staff present: Mike Martin, City Manager; Craig Knutson, City Attorney; Maiya Andrews, Public Works Director; Scott Greenberg, Community Development Director; Ramesh Davad, Development Review Engineer; and Monica Lusk, City Clerk.

AGENDA CONFIRMATION

Direction/Action

Motion was made by Deputy Mayor Clark, seconded by Councilmember McGilton and passed unanimously to affirm the July 2, 2012, Agenda.



PUBLIC COMMENT

The following people supported placing the Lake Burien Land Use Map amendment on the Comprehensive Plan Amendment Docket:

- Robert Howell, 15240 20th Avenue SW, Burien
- Chestine Edgar, 1811 SW 152nd Street, Burien
- Linda Plein, 1600 SW 156th Street, Burien

Goodspaceguy, 10219 Ninth Avenue South, Seattle

Mr. Goodspaceguy recommended that the City not place murals on private businesses. Instead the money should be spent on government property or a refund to the citizens.

Alan Bocio, 1209 SW 139th Street, Apt. #236, Burien

Mr. Bocio spoke to the importance of New Futures' programs and the closing of its site at the Heights of Burien. He asked the Council to help keep New Futures open at site.

Robbie Howell, 15240 20th Avenue SW, Burien

Ms. Howell asked that moderate to low-income apartments not be allowed in the Downtown Commercial Zone.

John Poitras, 1248 SW 149th Street, Burien

Mr. Poitras spoke to the importance of economic development in the downtown area, noted that tagging is increasing, and spoke to the City of SeaTac's contract with the Regional Animal Services of King County (RASKC).

CORRESPONDENCE FOR THE RECORD

- a. Letter Dated June 4, 2012, from Councilmember Krakowiak Regarding Federal Lobbyist Contract.
- b. Letter Dated June 12, 2012, from C. Edgar and the Lake Burien Neighborhood Regarding Land Use Map Change Request.
- c. Written Comments for Meeting of June 18, 2012, from Kelly J. Phanco Regarding Squatters on South 182nd Street.
- d. Email Dated June 19, 2012, from John Poitras Regarding Kids and Cops.

CONSENT AGENDA

- a. Approval of Vouchers: Numbers 31912 – 32054 in the Amounts of \$611,074.82.
- b. Approval of Minutes: Regular Council Meeting, June 18, 2012.
- c. Motion to Approve Public Art Design for Downtown Mural.

Follow-up

Staff will provide an explanation on the payment to the City of Seattle City for street lighting.

Direction/Action

Motion was made by Deputy Mayor Clark, seconded by Councilmember McGilton, and passed unanimously to approve the July 2, 2012, Consent Agenda.

BUSINESS AGENDA

Motion to Approve Resolution No. 335, Adopting the 2013 through 2018 Six-Year Transportation Improvement Program (TIP)

Direction/Action

Motion was made by Deputy Mayor Clark, seconded by Councilmember McGilton, and passed unanimously to approve Resolution No. 335, adopting the 2013 through 2018 Six-Year Transportation Improvement Program.

Motion to Adopt Resolution No. 336, Establishing the 2012 Comprehensive Plan Amendment Docket

Direction/Action

Motion was made by Deputy Mayor Clark, seconded by Councilmember McGilton to adopt Resolution No. 336, establishing the 2012 Comprehensive Plan Amendment Docket.

Motion by Councilmember Edgar, seconded by Councilmember Krakowiak, to amend the motion to add to Exhibit A of the 2012 Comprehensive Plan Amendment Docket and Work Program an individual proposed amendment to update the Comprehensive Plan Land Use Map for the Lake Burien area.

Motion failed 2-5. Opposed, Mayor Bennett, Deputy Mayor Clark and Councilmembers Block, McGilton and Robison.

Motion by Councilmember Block to amend the motion to add a library only zone designation that is noted to the current sites of the downtown, Boulevard Park and White Center libraries.

Motion failed due to lack of a second.

A vote was taken on the original motion.

Motion passed 4-3. Opposed, Councilmembers Block, Edgar and Krakowiak.

Discuss Ordinance Amending Criminal Code Relating to False Statements to Police Officers and 911 Dispatchers

Direction/Action

Councilmembers requested placing Ordinance No. 563 on the July 16, 2012, Consent Agenda for approval.

City Business

City Manager Mike Martin introduced the new Burien Police Captain Jesse Anderson who spoke to his service to the community.

Follow-up

Staff will provide: a business profit and loss statement for the Community Animal Resource Education Society (CARES) for future City budget decisions; the cost for sending Burien City News to those outside the City; and the RCW's related to changing the form of government to Mayor/Council. Staff will research how CARES' charges for other services could reduce the \$50,000 subsidy.

COUNCIL REPORTS

Councilmember Block reported on the Association of Washington (AWC) Annual Conference he attended in Vancouver, Washington.

ADJOURNMENT

Direction/Action

MOTION was made by Deputy Mayor Clark, seconded by Councilmember McGilton and passed unanimously to adjourn the meeting at 8:51 p.m.

Brian Bennett, Mayor

Monica Lusk, City Clerk

CITY OF BURIEN, WASHINGTON

ORDINANCE NO. 563

AN ORDINANCE OF THE CITY OF BURIEN, WASHINGTON, AMENDING THE CITY'S CRIMINAL CODE RELATED TO FALSE STATEMENTS TO POLICE OFFICERS AND 911 DISPATCHERS AND ADOPTING SECTION 9.100.400 OF THE BURIEN MUNICIPAL CODE

THE CITY COUNCIL OF THE CITY OF BURIEN, WASHINGTON DO HEREBY ORDAIN AS FOLLOWS:

Section 1. BMC 9.100.400 is hereby adopted to read as follows:

9.100.400 Making a false or misleading statement to a law enforcement officer or to a 911 dispatcher.

(1) A person is guilty of making a false or misleading statement to a law enforcement officer or to a 911 dispatcher, if he or she:

(a) Knowingly makes a false or misleading material statement to a law enforcement officer; or

(b) Calls the telephone number 9-1-1 and knowingly makes a false alarm or complaint or reports other false information that could result in the dispatch of emergency or law enforcement services.

(2) As used in this section:

(a) "Material statement" means a written or oral statement reasonably likely to be relied upon by a law enforcement officer in the discharge of his or her official powers or duties;

(b) "Law enforcement officer" means any general authority, limited authority, or specially commissioned Washington peace officer or federal peace officer, as those terms are defined in RCW 10.93.020, and other public officers who are responsible for enforcement of fire, building, zoning, and life and safety codes.

(c) "911 dispatcher" means any person who answers calls to the telephone number 9-1-1 for the purpose of dispatching emergency or law enforcement services.

(3) Making a false or misleading statement to a law enforcement officer or to a 911 dispatcher is a gross misdemeanor.

Section 2. Effective Date. This Ordinance shall take effect five days after publication.

ADOPTED BY THE CITY COUNCIL AT A REGULAR MEETING THEREOF ON THE
___ DAY OF JULY, 2012, AND SIGNED IN AUTHENTICATION OF ITS PASSAGE THIS
___ DAY OF JULY, 2012.

CITY OF BURIEN

Brian Bennett, Mayor

ATTEST/AUTHENTICATED:

Monica Lusk, City Clerk

Approved as to form:

Craig D. Knutson, City Attorney

Filed with the City Clerk: July 2, 2012

Passed by the City Council:

Ordinance No. 563

Date of Publication: July __, 2012

**CITY OF BURIEN
AGENDA BILL**

Agenda Subject: Discussion on and Motion to Appoint Members to Prepare Pro and Con Statement for the Proposed North Highline Annexation Area Ballot Measure		Meeting Date: July 16, 2012
Department: City Manager	Attachments: Excerpt on Local Voters' Pamphlet from King County Elections 2012 Jurisdiction Manual	Fund Source: N/A Activity Cost: N/A Amount Budgeted: N/A Unencumbered Budget Authority: N/A
Contact: Monica Lusk, City Clerk		
Telephone: (206) 248-5517		
Adopted Initiative: Yes No	Initiative Description:	
<p>PURPOSE/REQUIRED ACTION: The purpose of this agenda item is for Council to consider appointing committee members to write a statement in favor of or in opposition to the proposed North Highline Area "Y" Annexation Area ballot measure that will be included in the voters' pamphlet.</p> <p>BACKGROUND (Include prior Council action & discussion): For the primary and general election, King County publishes a voters' pamphlet. Jurisdictions placing measures on the ballot are automatically included in the voters' pamphlet. Pro and con committees are established to write a statement in favor of or in opposition to the ballot measure. The committees are also required to obtain the opposing statement in order to write and submit a rebuttal statement.</p> <p>For each measure for a jurisdiction that is included in the voters' pamphlet, the legislative authority of the jurisdiction formally appoints pro and con members to prepare arguments advocating voters' approval and rejection of the measure.</p> <p>Each committee shall have no more than three members. However, a committee may seek the advice of any person or persons when preparing their statement. Each committee shall designate a spokesperson with whom King County Elections shall communicate all matters related to the pamphlet.</p> <p>OPTIONS (Including fiscal impacts):</p> <ol style="list-style-type: none"> 1. Appoint members to prepare pro and con statements for the annexation ballot measure in the voters' pamphlet. 2. Do not appoint members, resulting in no statements published in the voters' pamphlet. 		
Administrative Recommendation: Appoint to the Pro and Con Committees.		
Committee Recommendation: N/A		
Advisory Board Recommendation: N/A		
Suggested Motion: Move to appoint _____, _____, _____ to the Pro Committee and _____, _____, _____ to the Con Committee for Voters' Pamphlet Statements for the North Highline Area "Y" Annexation Area Ballot Measure.		
Submitted by: Monica Lusk		
Administration _____		City Manager _____
Today's Date: June 29, 2012	File Code: R://CC/AgendaBill2012/071612cm-1 annexation pro con member	

Publishing a local voters' pamphlet (RCW 29A.32, King County Public Rules ELE 9-1)

For the primary and general elections, King County publishes a local voters' pamphlet. Districts placing measures on the primary or general election ballot are automatically included in the local voters' pamphlet.

Special election local voters' pamphlets are not automatically produced. A local voters' pamphlet must be specifically requested by the governing authority of the jurisdiction, by ordinance or resolution, and fully paid for by the jurisdiction. The ordinance or resolution must be submitted to King County Elections no later than 4:30 p.m. on the dates specified in the local voters' pamphlet deadlines box below.

Local voters' pamphlet deadlines:

Special Elections

Election date	February 14	April 17
Resolution requesting publication due	12/30/11	3/2/12
Explanatory statement	12/30/11	3/2/12
Pro/Con Committee Appointments	12/30/11	3/2/12
Pro/Con Statements	1/3/12	3/5/12
Rebuttal Statements	1/4/12	3/7/12

Primary + General Elections

Election date	August 7	November 6
Resolution due	n/a - all jurisdictions included	
Explanatory statement	5/15/12	8/10/12
Pro/Con Committee Appointments	5/15/12	8/10/12
Pro/Con Statements	5/21/12	8/15/12
Rebuttal Statements	5/23/12	8/17/12

Jurisdiction's responsibility

A jurisdiction must coordinate with the jurisdiction's legal counsel to prepare an explanatory statement (or approve one written by the jurisdiction). This statement describes the effect of the measure if it is passed into law. The jurisdiction submits the explanatory statement signed by the legal counsel no later than the deadline.

The jurisdiction is also responsible for appointing committees to prepare statements in favor of and in opposition to the ballot measure. There is a limit of three members per committee. The jurisdiction completes the Committee Appointment Form and submits it by the deadline.

The jurisdiction should also inform committee members of the deadlines, word limit, rules, and where to submit their statements. King County Elections provides a local voters' pamphlet packet for jurisdictions to distribute to committee members. This packet includes:

- submission deadlines
- information on statement specifications (word limits, formatting, etc.)
- how to submit statements and rebuttals

Go to our website www.kingcounty.gov/elections to print out this helpful packet for your pro/con committee members.

Composition

As required by state law, a King County local voters' pamphlet shall contain, at a minimum, the following information:

- Ballot title of each measure.
- Explanatory statement for each measure.
- Pro and con statements for each measure.

Local voters' pamphlet packet

This helpful packet is available on our website at www.kingcounty.gov/elections under jurisdiction resources.

- Rebuttal statements from pro and con committees for each measure.

Explanatory statements

An explanatory statement, stating the effect of a ballot measure if passed into law, is prepared by the jurisdiction or the jurisdiction's attorney. If prepared by the jurisdiction, it must be signed-off by the jurisdiction's attorney.

Length & Other Specifications

The explanatory statement shall be prepared in block paragraph style, not to exceed 250 words in length.

The statement shall cover only the anticipated effect of the measure should it be passed into law.

The statement shall not intentionally be an argument likely to create prejudice either for or against the measure.

Establishment of pro + con committees

Pro and con committees consist of members of the public who agree to write a statement in favor of or in opposition to a ballot measure.

For each measure included in the local voters' pamphlet, **the jurisdiction's legislative authority shall formally appoint**, from persons known to favor or oppose the measure as appropriate, the following:

- Pro committee to prepare arguments advocating voters' approval of the measure.
- Con committee to prepare arguments advocating voters' rejection of the measure.

If such persons are not immediately known, the jurisdiction should employ some formal means of notifying the public that members for the proponent or opponent committee are being sought.

Each committee shall have no more than three members. However, a committee may seek the advice of any person or persons when preparing

their statement. Each committee shall designate a spokesperson with whom King County Elections shall communicate all matters related to the pamphlet.

The jurisdiction responsible for establishing committees shall submit a completed Committee Appointment Form or a letter with the names of the committee members, the spokesperson for the committee, and how that person can be readily contacted (an email address is required), not later than the deadline date for committee appointments.

If the jurisdiction is unable to identify persons to serve on either or both committees, the jurisdiction shall notify King County Elections no later than the deadline date for committee appointments. Such notification shall detail the efforts made to establish the committee(s). A statement to that effect will be placed in the local voters' pamphlet. If the jurisdiction is unable to appoint committee members prior to the deadline, King County Elections may appoint committee members.

Participating jurisdictions are responsible for providing committee members with copies of the instructions, specifications, and deadlines for pro/con statements and rebuttal statements. All of this information is available in the local voters' pamphlet packet on our website.

Once committee appointments have been made, it is the responsibility of the committees to submit their statements and rebuttals by the appropriate deadline.



Word limits:

Explanatory Statement - 250 words

Pro and Con Statements - 200 words

Rebuttal Statements - 75 words

Please note that committee member names as well as one means of contact will be published below each statement and are not included in the word count.

Pro + con committee statements

Arguments in favor of or in opposition to any ballot measure, prepared by a committee designated in accordance with state law, shall be filed with King County Elections no later than the deadline for pro and con statements.

Length + other specifications

Limitations on the length of committee arguments are based upon the space available within the pamphlet. The general limitation on text length using paragraph form without the use of bullets is 200 words or less; except 500 words may be used for municipal incorporation measures.

The use of indented bullets to emphasize issues and to make the copy more readable is permissible, but will reduce the allowable text length proportionately. In the event of any question regarding the length under these circumstances, the decision of the King County Elections Director as to the length shall be final.

The names of committee members preparing the statement and one phone number, email, or website where additional information on the statement may be obtained shall be added after the statements but shall not be included in the statement word counts. Committee members' titles shall not be included.

Rebuttal statements

After the deadline to submit pro/con statements, King County elections will email the opposing committee's statement to the designated contact person listed on the Committee Appointment Form. An email address is required for the designated contact person.

Rebuttal statements are not required, however, it gives each committee an opportunity to write a few more words supporting their point of view.

Rebuttal statements are not exchanged. They may be viewed at the Elections Office upon request.



Review of statements

Prior to publication of the pro/con statements and rebuttal statements, King County Elections will email each committee a proof of their statements. Once they receive the proof, they can ensure there are no discrepancies between the proof copy and the information they submitted.

No changes to the originally submitted statements will be accepted and no new material will be accepted. The only changes that will be accepted are updates to the contact information section.

General provisions for all statements

By preparing and distributing a local voters' pamphlet, King County provides an opportunity to better inform the voting public about measures and candidates on the ballot. Arguments and statements prepared by committees for or against measures are the responsibility of the authors and are not considered to represent the position of the County regarding the measure, or of any material contained therein; nor is the County responsible for the validity or accuracy of the statements, arguments, or rebuttals.

Statement review deadlines:

Special Elections

Election date	February 14	April 17
Proof copy emailed to pro/con committees	n/a	3/9/12
Response from pro/con committees for proof due	n/a	3/12/12

Primary + General Elections

Election date	August 7	November 6
Proof copy emailed to pro/con committees	6/15/12	9/14/12
Response from pro/con committees for proof due	6/18/12	9/17/12

Arguments for or against a measure, rebuttals, and explanatory statements will not be proofread for any errors in spelling, punctuation or syntax.

Any statement may be rejected if, in the opinion of the King County Elections Director, the statement offered for filing contains obscene, vulgar, profane, scandalous, libelous, defamatory, or treasonable matter; any language tending to provoke crime or a breach of the peace, or any language or matter the circulation of which through the mail is prohibited by any act of Congress. The committee or candidate submitting such statement may appeal a rejection to the King County Prosecuting Attorney within five business days of rejection by filing an appeal with the King County Elections Director. The Prosecuting Attorney will render a decision within five business days of the appeal. The decision of the Prosecuting Attorney shall be final.

Submission of material

Please remember to use the Pro and Con Statement Submission form when submitting statements, this form is included in the Local Voters' Pamphlet Packet online.

All statements must be submitted by email, postal mail, fax, or in-person.

 Submit statements with King County Elections by:

email

election.operations@kingcounty.gov

in-person or mail

919 SW Grady Way
Renton, WA 98057

fax

206-296-0108

Frequently asked questions

When are local voters' pamphlets mailed?

King County Elections makes every effort to have ballots and local voters' pamphlets delivered to voters around the same time; however, they do not always arrive on the same day.

Even though materials are mailed all at once, they may not reach every voter on the same day.

Local voters' pamphlet information is also available on our website, where voters can create a personalized voter guide.

How are local voters' pamphlets distributed?

In county-wide elections, one copy of the local voters' pamphlet will be mailed to each household in the county. All households in a zip code will receive the same edition of the pamphlet but not all material contained inside will appear on each voter's ballot.

For example, two school districts may share the same zip code so both will appear in one edition of the pamphlet, however, the voter only resides within one of those school districts.

How can a jurisdiction participate in the local voters' pamphlet?

For the primary and general election, King County publishes a local voters' pamphlet. Districts placing measures on the primary and general election ballot are automatically included in the local voters' pamphlet.

Special election local voters' pamphlets are not automatically produced. A local voters' pamphlet must be specifically requested by the governing authority of the jurisdiction, by ordinance or resolution, and fully paid for by the jurisdiction. The deadlines for submitting the resolution or ordinance can be found on page 46.

Local voters' pamphlet questions

phone 206-296-1565

e-mail election.operations@kingcounty.gov

**CITY OF BURIEN
AGENDA BILL**

Agenda Subject: Presentation and Discussion on the Storm Drainage Master Plan		Meeting Date: July 16, 2012
Department: Public Works	Attachments: 1) PowerPoint Presentation 2) Storm Drainage Master Plan 3) Public Comments on Draft SDMP	Fund Source: N/A Activity Cost: N/A Amount Budgeted: N/A
Contact: Maiya I. Andrews, Public Works Director		
Telephone: (206) 248-5521		
Adopted Work Plan Priority: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> .	Work Plan Item Description: Preparation and Adoption of Storm Drainage Master Plan	
<p>PURPOSE/REQUIRED ACTION: The purpose of this agenda item is to present and discuss the Storm Drainage Master Plan (SDMP).</p> <p>BACKGROUND (Include prior Council action & discussion): The last SDMP was adopted by Council in May 2005. It is being updated in order to:</p> <ul style="list-style-type: none"> • Ensure compliance with the National Pollution Discharge Elimination system (NPDES); • Ensure program operational needs are met; • Identify maintenance needs; • Address local drainage, flooding and water quality issues; and • Update the Capital Projects list. <p>A copy of the presentation is attached to this Agenda Bill as Attachment 1. The draft SDMP is included as Attachment 2. Attachment 3 is a list of the comments we received from citizens on the draft, along with responses to those comments. Changes as a result of these comments have already been incorporated into the attached draft SDMP.</p> <p>The draft includes recommended increases to the City's stormwater fee to provide the staffing and equipment necessary to comply with the new NPDES requirements in the coming year.</p> <p>OPTIONS (Including fiscal impacts): N/A</p>		
Administrative Recommendation: N/A		
Committee Recommendation: N/A		
Advisory Board Recommendation: N/A		
Suggested Motion: None required.		
Submitted by: Maiya I. Andrews, Public Works Director		
Administration _____		City Manager _____
Today's Date: July 9, 2012	File Code: R:\CC\Agenda Bill 2012\071612pw-1 SDMP Presentation.docx	



Storm Drainage Master Plan

Council Briefing
July 16, 2012

Alissa Maxwell, PE 



Agenda

- ▶ Storm Drainage Master Plan Overview
- ▶ Program and Operations Analysis
- ▶ Capital Programs Analysis
- ▶ Implementation Plan and Options
- ▶ Questions and Discussion




Overview

- ▶ Surface Water Program Purpose and Mission
 - Protect Public Health and Welfare
 - Protect Natural Resource Areas
 - Comply with Federal and State Regulations
 - Maintain Storm Drainage Infrastructure
 - Construct Capital Projects to reduce flooding, protect from erosion, enhance conveyance capacity, and protect habitat
- ▶ All activities funded through Stormwater Utility Fees and Grants




Overview

- ▶ Master Plan Goals
 - Update 2005 Plan
 - Compliance with NPDES
 - Program Operations
 - Maintenance Needs
 - Address local drainage, flooding, and water quality issues
 - Update Capital Projects List
 - 5-10 year planning timeline






Overview

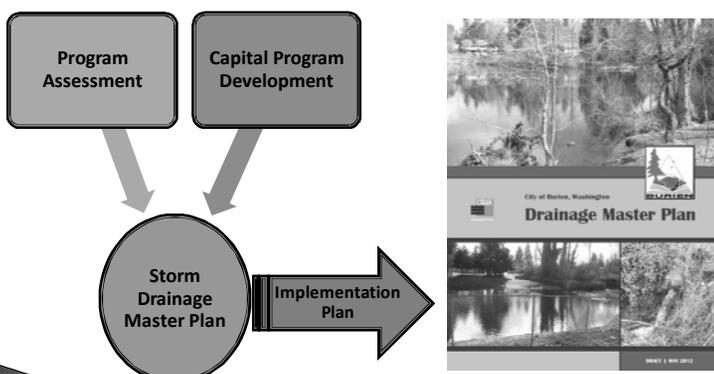
- ▶ Public Process to Date
 - Advisory Committee
 - July 2011 Kick-off
 - Public Survey of Drainage Problem Areas
 - April 2012 AC and Public Meeting
 - AC Review of Draft DMP
 - Council Presentation and Discussion







Overview







Program and Operations

- ▶ Current Internal Activities
 - Development Review
 - Infrastructure Maintenance
 - Facility Inspections
 - GIS Inventory and Mapping
 - Illicit Discharge and Spill Identification
 - Complaint Response
- ▶ Current Contracted Services
 - Catch Basin Inspection
 - Street Sweeping
 - Watershed Education
 - Maintenance Activities








Program and Operations

- ▶ Changes
 - New NPDES Permit to be effective August 2013
 - Increased Service Area
 - Adjustments to Contracted Services
- ▶ Findings and Recommendations
 - City takes on Inspections
 - Business outreach for water quality concerns
 - Ongoing complaint tracking and response
 - Code review for Low Impact Development
 - Continue seasonal/temporary staff
 - Add staff in Maintenance and Operations





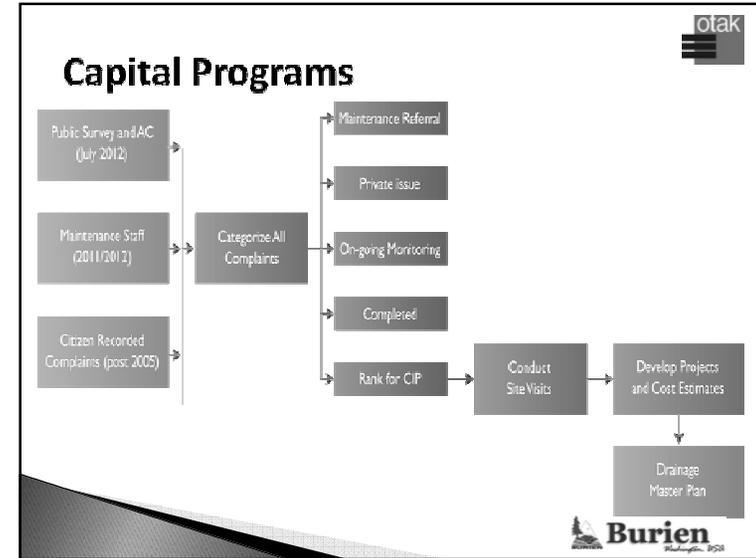


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Capital Programs

Completed Projects
SW 132 nd Street Flooding
Century Apartments Drainage Systems
142 nd Street Depression (2 projects)
15 th Ave SW Drainage System
S 132 nd Street Depression
Ambaum Pond Expansion
Hurstwood Neighborhood Infiltration System
Burien Community Center Bio-Swale Enhancement
SW Normandy Road Drainage Upgrade
Easement and Pipe Repair for Schick Shadel Hospital
Beaver Deceiver at Des Moines Memorial Dr.
SW 148 th Street Gravity Main replacement
Drainage System Replacement during Overlay Projects

Burien
Washington, 1924



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Capital Programs

- ▶ 41 Areas referred for Maintenance
- ▶ 36 Areas addressed through Capital Program
- ▶ Infrastructure Upgrade
- ▶ Ongoing reporting process
- ▶ Additional projects identified through watershed studies and basin planning

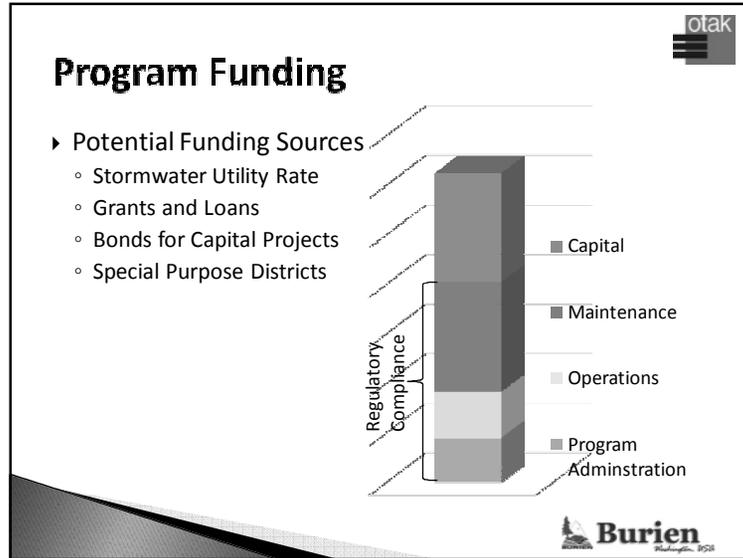
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Washington, 1924

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Annual Program Summary

Operations \$2,024,000	<ul style="list-style-type: none"> • Salary and Benefits: \$942,000 • Contracts and Expenses: \$1,082,000
Capital \$1,100,000	<ul style="list-style-type: none"> • Major CIPs: \$450,000 • Watershed Based Studies: \$200,000 • Small Works Projects: \$100,000 • Infrastructure Replacement: \$350,000
Annual Total \$3,124,000	Current Revenue \$2.5M

Burien
Washington, 1924



Funding Options

Annual Program	Option 1	Option 2	Option 3
	Proposed Program Single Rate Increase	Delayed Capital Funding Two Step Rate Increase	Enhanced Capital Funding Two Step Rate Increase
Program Operations	\$2,024K	\$2,024K	\$2,024K
Capital Programs	\$1,100K	\$800K in 2013/2014 \$1,100K after	\$850K in 2013/2014 \$1,300K after
2013 Rate (annual/SFR)	\$150.85 (25%)	\$135.16 (12%)	\$138.78 (15%)
2015 Rate (annual/SFR)		\$151.38 (12%)	\$159.60 (15%)

2012 Rate = \$120.68 (\$10.06/month)

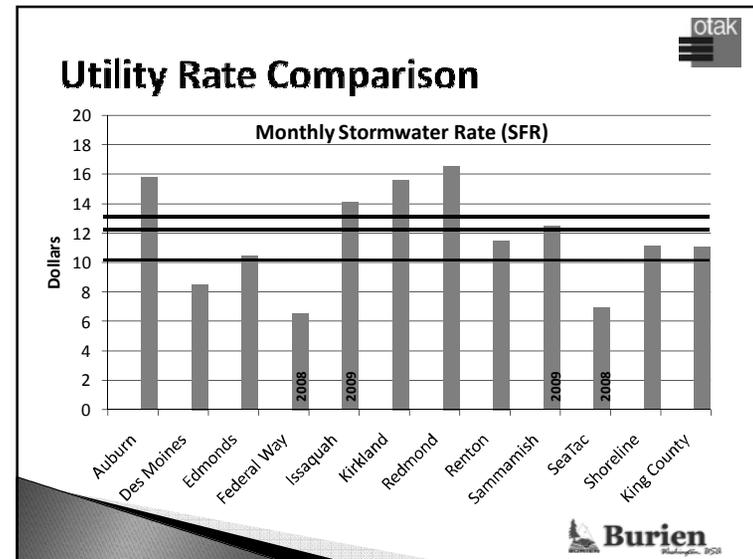
Burien
Washington 1958

Utility Rate Comparison

	Surface Water Program FTEs	Single Family Utility Rate
Burien (Proposed)	11.25	\$151
Auburn	16.0	\$189
Des Moines	11.0	\$102
Edmonds	7.5	\$126
Federal Way	16.35	\$79*
Issaquah	--	\$169
Kirkland	28.04	\$188
Redmond	31.67	\$199
Renton	11.2	\$138
Sammamish	10.2	\$150
SeaTac	7.25	\$83*
Shoreline	10.86	\$133

*Rate unchanged since 2008

Burien
Washington 1958



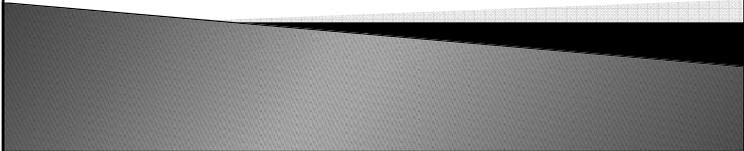


Next Steps

- ▶ Discussions and Questions
- ▶ Incorporate Council-directed plan changes
- ▶ Plan adoption
- ▶ Adjust stormwater rate through budget process
- ▶ Ongoing problem area reporting and evaluation



Questions and Discussion





City of Burien, Washington

Storm Drainage Master Plan



JULY 2012

Acknowledgements

City of Burien, Washington Storm Drainage Master Plan



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City of Burien
 Storm Drainage Master Plan
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Abbreviations and Acronyms

2005 ECOLOGY MANUAL	2005 Department of Ecology Stormwater Management Manual for Western Washington
BMC	Burien Municipal Code
BMP	Best Management Practice
CB	Catch Basin
CIP	Capital Improvement Projects
CITY	City of Burien
ESA	Endangered Species Act
ECOLOGY	Washington State Department of Ecology
FTE	Full Time Equivalent
GIS	Geographic Information System
IDDE	Illicit Discharge Detection and Elimination
KCSWDM	King County Surface Water Design Manual
LID	Low Impact Development
NERA	Northeast Redevelopment Area
NPDES	National Pollution Discharge Elimination System
PARTNERSHIP	Puget Sound Partnership
PHASE II PERMIT	2007 National Pollution Discharge Elimination System Phase II Municipal Stormwater Permit
SDMP	Storm Drainage Master Plan
SWMP	Stormwater Management Plan
SWP	Small Works Project
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
UIC	Underground Injection Control
UTILITY	Surface Water Utility
WAC	Washington Administrative Code
WRIA	Water Resource Inventory Area

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City of Burien

Storm Drainage Master Plan

Executive Summary

Background

The City of Burien is a young city located just south of Seattle, Washington. The City faces numerous demands on both the staff and financial resources. Over the last several years, the City has worked to establish a Stormwater Program to meet regulatory requirements, protect water quality, maintain the City's drainage infrastructure, and construct capital construction projects. The goals of the City's Stormwater Program are to:

- Protect public health and welfare
- Protect wetlands, shorelines, streams, and creeks as natural surface water resources
- Achieve compliance with stormwater-related regulatory requirements, specifically the Phase II Permit.
- Actively maintain the capacity of the City's drainage infrastructure.
- Identify and solve storm drainage problems
- Provide for the comprehensive, integrated management and administration of the City's stormwater facilities and operations
- Design and construct capital projects to reduce flooding, provide protection from erosion, enhance conveyance capacity and protect habitat

At incorporation in 1993, the City inherited an extensive storm drainage infrastructure that was constructed and previously maintained by King County. In 1996, the City completed a Draft Storm Drainage Master Plan in conjunction with the City's first Comprehensive Plan. In 2005, the City published its first Storm Drainage Master Plan (CH2MHill, May 2005) that provided guidance for surface water management, including policy development and setting, along with identifying the Stormwater Capital Improvement Program (CIP) project needs. The Storm Drainage Master Plan also provided the City Public Works staff with a guide for stormwater infrastructure operation and maintenance activities.

Purpose of the Study

The purpose of this study is to identify the future needs of the City's stormwater program including documenting areas where drainage and water quality can be improved, updating the CIP project list and identifying the actions and staff demands for both the current and future regulatory requirements. This Storm Drainage Master Plan (SDMP) outlines programmatic, operational, and capital construction activities to guide the City's Stormwater Program over the next five to ten years.

Stormwater Program Considerations

The City's Stormwater Program service area is approximately ten square miles, encompassing the full City limits. The City limits include three major drainage basins – Salmon Creek, Miller Creek (including Lake Burien), and Puget Sound – as shown in Figure 2-1. The SDMP has been developed with consideration to the local and regional issues described below.

NPDES Phase II Permit

In January of 2007, the City was issued the National Pollution Discharge Elimination System (NPDES) Municipal Stormwater Phase II Western Washington General Municipal Stormwater Permit (Phase II Permit), that prompted the City to add new stormwater program elements to their SWM Program, including an Illicit Discharge Detection and Elimination (IDDE) program, stormwater system inspections, increased operation and maintenance activities, and planning for future stormwater monitoring. The permit term is set to expire in 2012 and the Washington State Department of Ecology (Ecology) intends to issue a new NPDES Phase II Permit that will impact City operations starting in 2013.

Aging Stormwater Infrastructure

At incorporation and during recent annexations, the City acquired an aging stormwater infrastructure system from King County. The stormwater system infrastructure typically has a 50-100 year design life, which the majority of the existing infrastructure has met. The City has ongoing program to replace existing pipes when roadways are under construction.

Lake Water Quality

Lake Burien and Arbor Lake are small lakes that serve important local function for recreation and as ecological amenities within the Miller Creek watershed. Local residents are concerned about lake water quality and interested in supporting City programs to maintain long term watershed health. The City's efforts focus on public outreach and education to improve practices (animal waste, fertilizer use, etc.) of the surrounding and upstream properties. The City also looks to add water quality treatment facilities when developing capital projects in the surrounding area

Miller/Walker Creek Watershed

Miller Creek flows approximately six miles through urban areas of Burien and adjacent communities. Walker Creek also runs through a similar urban area of Burien and adjacent communities for two miles. In 2006, Burien, Normandy Park, SeaTac, King County, the Port of Seattle, and the Washington State Department of Transportation worked together to develop the *Miller and Walker Creeks Basin Plan*, addressing surface water quality, flooding,

stormwater infrastructure capacity, and fish habitat issues. The City works closely with King County and the Miller/Walker Basin Steward to evaluate opportunities and projects to support and restore watershed health in the Miller/Walker Creek basin.

Closed Depressions

Burien is home to numerous closed depressions where stormwater collects without a defined outlet. Major closed depressions with localized flooding issues include Hermes Depression, Mayfair Depression and the 142nd Street Depression.

In-house vs. Contracted Operation and Maintenance Activities

One challenge the City faces as a fairly young, but largely populated City is to develop a long-term plan to conduct maintenance activities using City staff instead of contracting for these services to King County. The immediate, short term plan is for City staff to start conducting all construction and stormwater facility inspections as required by the NPDES Phase II Permit. The City will take on additional maintenance activities as equipment can be purchased and new staff can be hired.

Implementing Low Impact Development and Green Infrastructure Design

Low Impact Development (LID) is an ever increasingly important topic in the field of stormwater management. The new Phase II permit is expected to require the City to update City Codes to promote increased use of LID in development planning and infrastructure design. The use of LID drainage infrastructure can be beneficial to Burien because of the hydrology (closed depressions) that need to infiltrate runoff at the source decreasing the need for large regional stormwater facilities and localized flooding. The implementation of LID codes and techniques will require additional training and staffing to design and review development plans and public CIPs.

Potential Future Annexations

This SDMP does not evaluate the programming or infrastructure requirements that would be required to support future annexations. However, stormwater program impacts should be thoroughly evaluated during the review of any future annexations. Adding service area to the City can affect the stormwater program by adding new CIP projects, additional program area for NPDES Phase II Permit requirements, a large maintenance service area, additional aging infrastructure that will need replacement and potential additional water quality issues (new lakes/streams annexed into the City etc.). Any new annexed area will also directly increase the stormwater program budget through the addition of new rate payers, so the cost/benefit to the stormwater program would need to be thoroughly reviewed.

Stormwater Program Assessment

This SDMP includes an analysis of the City's Stormwater Program for compliance with regulatory obligations and other necessary administrative functions. The primary regulation driving the City's stormwater program is the NPDES Phase II Permit. The City is also subject to compliance with the State Underground Injection Control Rule, the Federal Endangered Species Act (ESA), and the Puget Sound Action Agenda. The City's Stormwater Program already includes many of the required legal authorities, programmatic activities, services, and maintenance actions needed for compliance. Some of these activities will need to be enhanced or expanded for full compliance with current and future regulations.

The program assessment shows an overall need for 2.1 additional Full Time Equivalent (FTE) and \$180,000 annually to support the Stormwater Program. Section 3 outlines short term and long term program implementation activities, a recommended staffing plan, and budget considerations Table ES-1 provides a summary of the staffing and funding required for future Stormwater Program implementation.

Table ES-1: Summary of Existing and Future Stormwater Program Expense and FTE

Element	Existing Staff FTE	Existing Staff Cost (\$)	Existing Expense Cost (\$)	Future Staff FTE	Future Staff Cost (\$)	Future Expense Cost (\$)	Notes
1 – Public Education and Outreach	0.10	\$8,600	\$10,000	0.15	\$13,000	\$15,000	Increased outreach and measurement of outreach results as required by NPDES.
2- Public Involvement and Participation	0.05	\$7,800	\$0	0.05	\$5,000	\$0	No change.
3 – Illicit Discharge Detection and Elimination	0.50	\$43,200	\$42,700	0.60	\$50,000	\$30,000	IDDE inspections will be combined with maintenance program.
4- Controlling Runoff from New Development, Redevelopment	0.50	\$53,700	\$7,700	1.30	\$109,000	\$25,000	Revise development code for LID. Increase staffing to review development plans for LID stormwater facilities as required by NPDES.
5 – Pollution Prevention and Operation and Maintenance for Municipal Operations	6.40	\$412,900	\$520,700	7.30	\$608,000	\$503,000	Increase frequencies as required by NPDES. Shift responsibility from outside contracts to City staff.
6 – Program Implementation	0.00	\$0	\$0	0.05	\$4,200	\$30,000	Develop written program policies as required by NPDES.
7 – Total Maximum Daily Load Allocations	N/A	N/A	N/A	N/A	N/A	N/A	No TMDLs apply to the stormwater program.
8 – Monitoring	0.00	\$0	\$0	0.05	\$4,200	\$32,500	City must pay in to regional monitoring program as required by NPDES.
9 – Reporting	0.05	\$5,400	\$10,000	0.05	\$5,000	\$5,000	No change.
10 – Regional Watershed Planning	0.05	\$5,400	\$76,000	0.10	\$9,000	\$76,000	Increased attention to WRIA activities.
11- Underground Injection Control Rule	N/A	N/A	N/A	0.00	\$0	\$0	No change
12 – Capital Improvement Program	0.40	\$52,900	See Section 4	0.50	\$50,000	See Section 4	Program variable based on project development.
13 – Additional Activities	0.70	\$70,400	\$284,100	1.00	\$84,000	\$365,000	Increase funding for equipment purchase and future maintenance facility.
Total	8.75	\$660,000	\$951,000	11.25	\$942,000	\$1,082,000	
Grand Total	8.75	\$1,611,000		11.25	\$2,024,000		Operating only; See Section 4 for CIP

Capital Needs

A major component of this SDMP is the development of an updated CIP projects list. The updated CIP presented in Section 4 includes projects that address flooding, infrastructure and water quality concerns, along with identifying long term stormwater and water quality studies. The CIP also includes Small Works Projects (SWP) and an Infrastructure Replacement Fund to upgrade aging stormwater infrastructure.

Table ES-2 presents the updated capital program. A map of the proposed project locations is included in Section 4. Additional capital projects will be identified through the watershed based studies and ongoing review of drainage complaints reported by citizens and City Staff.

Table ES-2 Summary of CIP Projects, Studies and Small Works Projects		
Project Problem Area	Project Title	Cost ⁽¹⁾
CIP 1	Capacity Improvement at 4 th Avenue SW	\$552,000
CIP 2	20th Ave SW Drainage Improvements	\$390,000
CIP 3	20th Ave S between S 120th Ave and S 124th St Drainage Improvements	\$441,000
CIP 4	SW 165th St between 16th Ave SW and 19th Ave SW	\$322,000
CIP 5	SW 135th St and 6th Ave SW Drainage Improvements	\$154,000
CIP 6	SW 152nd and 8th Ave SW Drainage Improvements	\$457,000
CIP 7	25th Ave SW Drainage Improvements	\$799,000
CIP 8	4th Ave S/Blake Manor Neighborhood Drainage Improvements	\$639,000
	CIP Total	\$3,754,000
Study 1	Lake Burien System Retrofit	\$250,000
Study 2	NERA Master Drainage Plan	\$350,000
Study 3	Des Moines Memorial Drive and S 175th St Sediment Study	\$100,000
Study 4	Hermes and Mayfair Depressions System Evaluation	\$200,000
Study 5	142nd Street Depression Improvements	\$200,000
Study 6	Arbor Lake Water Quality Lake Management Plan	\$150,000
	Studies Total	\$1,200,000

Table ES-2 Summary of CIP Projects, Studies and Small Works Projects		
Project Problem Area	Project Title	Cost ⁽¹⁾
Small Works Project 1	Ambaum Blvd SW/SW 120th Block Drainage Improvements	\$100,000 per year
Small Works Project 2	Occidental Ave S Drainage Improvements	
Small Works Project 3	Eagle Landing Park/25th Ave SW Drainage Improvements	
Small Works Project 4	116th Ave SW between 1st Ave and 4th Ave SW at Church Drainage Improvements	
Infrastructure Replacement Fund	Upgrade/Replace Drainage Infrastructure associated with Roadway Improvement Projects	\$350,000 per year

Note: The cost opinion is in 2012 dollars and does not include future escalation, financing, or O&M costs.

Watershed Enhancement Program

The City is dedicated to protecting watershed health and enhancing water quality and natural resources. In compliance with NPDES Phase II Permit requirements, the City has developed an education and outreach program focused on educating residents and business owners about their impact on the health of the watershed. Through the Watershed Enhancement Program, the City is joining efforts with local organizations and citizens to improve the health of the streams and natural habitats.

Stormwater Program Funding

Historically, the City's Stormwater Program has been funded by the City's stormwater utility and grants for specific activities and projects. The City will use the annual budgeting process to update priorities and select projects for design, construction or long term planning. The City will continue to pursue grant opportunities to enhance operations and accelerate the rate of construction for stormwater related capital projects.

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City of Burien

Storm Drainage Master Plan

Section 1: Introduction

Background

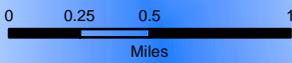
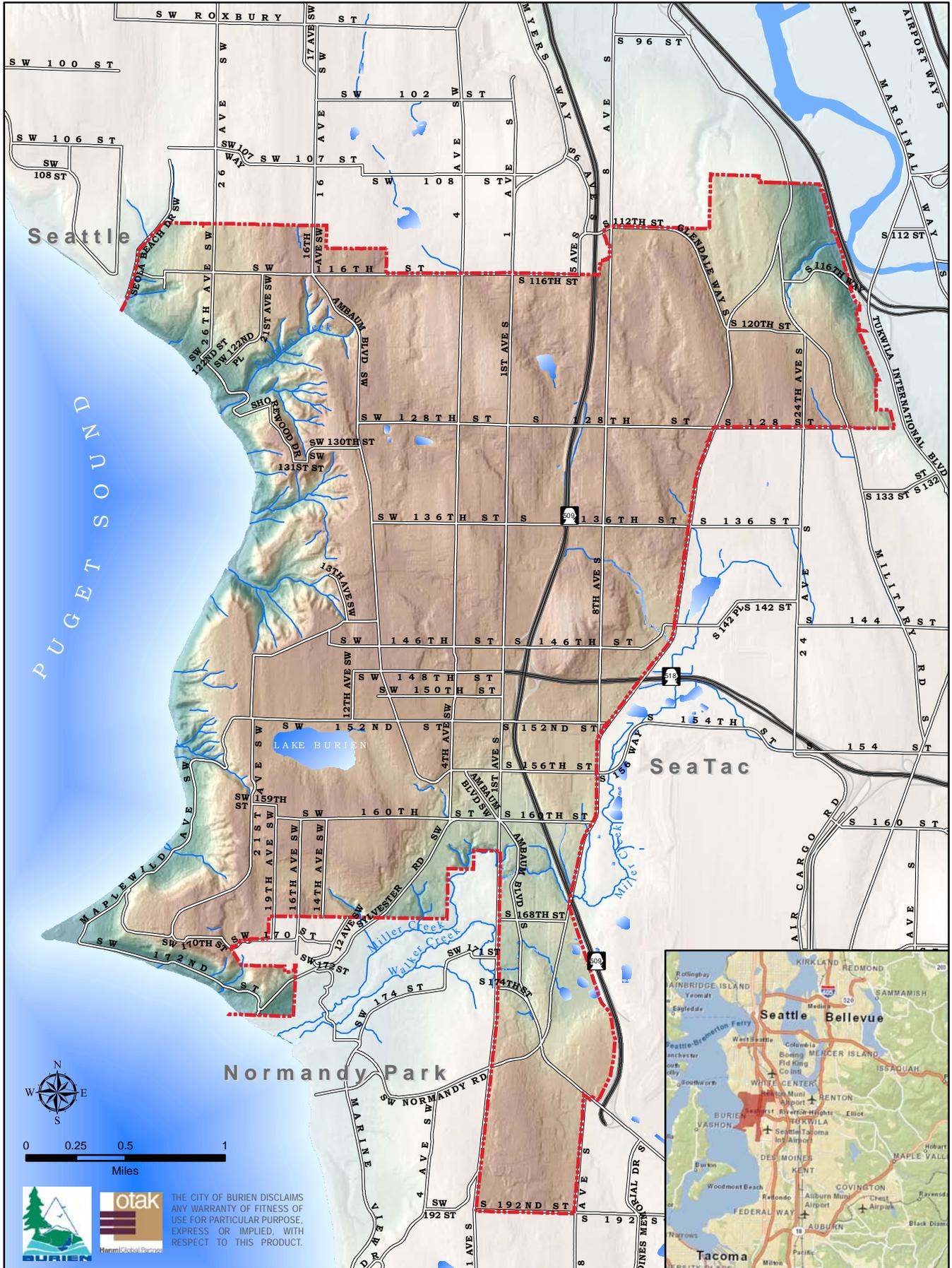
Incorporated in 1993, the City of Burien is a young, growing city faced with the challenges of meeting a myriad of local, state and federal demands on its financial and staff resources. The City's stormwater management program is currently providing stormwater education to citizens, maintaining its drainage system, reviewing new development for compliance with stormwater design standards, controlling pollution sources, constructing Capital Improvement Program (CIP) projects, and complying with requirements of the federal Clean Water Act for managing its municipal stormwater system discharges. Figure 1-1 shows the vicinity of the City of Burien.

This Storm Drainage Master Plan (SDMP) updates and replaces the previous Plan which was prepared in May 2005. The updates address the requirements of the National Pollution Discharge Elimination System (NPDES) Municipal Stormwater Phase II Western Washington General Municipal Stormwater Permit (Permit), bring the City's existing CIP program up to date, and evaluate program staffing and resources. This SDMP also includes a comprehensive review of the City's existing Stormwater Program, recommendations for future programs and capital projects, and an implementation plan for the next five to ten years.

Stormwater Program Purpose and Mission

The City's Stormwater Program is dedicated to addressing public safety, protecting properties and structures, supporting continued economic development, and protecting and preserving the natural environment and its functions. The goals of the City's Stormwater Program are to:

- Protect public health and welfare
- Protect wetlands, shorelines, streams, and creeks as natural surface water resources
- Achieve compliance with stormwater-related regulatory requirements, specifically the Phase II Permit.
- Actively maintain the capacity of the City's drainage infrastructure.
- Identify and solve storm drainage problems
- Provide for the comprehensive, integrated management and administration of the City's stormwater facilities and operations
- Design and construct capital projects to reduce flooding, provide protection from erosion, enhance conveyance capacity and protect habitat



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Drainage Master Plan

Figure 1-1 Vicinity Map

May 2012

To this end, the City's Stormwater Program routinely conducts numerous activities and services, ranging from program administration to complaint response, and includes education and outreach, development review, facility maintenance and capital improvement design and construction.

The City's Comprehensive Plan Storm Water Element (Appendix 1-1) provides the guiding policy for Stormwater Program activities in the City. The goals of the Comprehensive Plan Storm Water Element are summarized as:

- Manage stormwater runoff in such a manner as to protect steep slopes, streams, wetlands and shorelines from erosion and sedimentation;
- Preserve, protect, and restore natural habitat for salmonid species;
- Protect the quality of surface water and groundwater;
- Provide recharge of groundwater where appropriate;
- Ensure natural control mechanisms where appropriate;
- Establish design standards for drainage systems that support the character of adjacent development and the environmental protection goals of the City; and
- Minimize the risk to property and residents from flooding hazards.

This SDMP outlines an implementation plan to guide the City's Stormwater Program in achieving the goals and following the policies outlined in the Comprehensive Plan Storm Water Element.

The City's Stormwater Program addresses economic development in the following ways:

- By providing clarity during the planning process regarding the City of Burien's stormwater standards, and the developer or business contributions towards stormwater infrastructure.
- By providing clear and straightforward recommendations as to the priority investments in the City's stormwater infrastructure over the next ten years.

Stormwater Program History

At incorporation, the City inherited an extensive storm drainage infrastructure that was constructed and previously maintained by King County. In 1996, the City completed a Draft Storm Drainage Master Plan in conjunction with the City's first Comprehensive Plan. In 2005, the City published its first Storm Drainage Master Plan (CH2MHill, May 2005) that provided guidance for surface water management, including policy development and setting, along with identifying the Stormwater CIP project needs. The Storm Drainage Master Plan also provided the City Public Works staff with a guide for stormwater infrastructure operation and maintenance activities.

In January of 2007, the City was issued an NPDES Permit that prompted the City to add new elements to the Stormwater Program, including an Illicit Discharge Detection and Elimination (IDDE) program, stormwater system inspections, increased operation and maintenance activities, and planning for future stormwater monitoring.

The City's Surface Water Utility (Utility) was formed in 2008 by Ordinance 489 and is currently administered by the Public Works Department. The Utility was established to pay for stormwater management activities, including but not limited to basin planning, stormwater system operations, maintenance, construction of facilities, regulatory compliance and water quality. The Utility collects approximately \$2.4M per year. In 2011, \$1.6M was slated for program services and \$830K was transferred out of the operating fund to pay for stormwater-related capital projects.

Organization and Staffing

The City's Stormwater Program is under the direction of the Public Works Director, who supervises a Stormwater Engineer, Engineering Technician, the Maintenance Manager and the several Maintenance workers. Portions of each person's salary are covered by the stormwater program budget. The City's maintenance staff shares responsibility to maintain the stormwater system, roadways, and other City infrastructure.

Existing Infrastructure

In order to manage runoff from urban area, the City owns and operates over 112 miles of stormwater conveyance infrastructure, approximately 32 miles of drainage ditches, 15 water quality/detention ponds, and 42 other stormwater facilities (includes oil water separators, water quality vaults, water quality filters). Private owners are responsible for over 60 miles of conveyance line and over 150 stormwater facilities. The majority of the public infrastructure was installed by King County prior to the City's incorporation (1993). The City retains an ongoing relationship with King County to conduct many stormwater related maintenance activities. As part of this SDMP, the contract services have been evaluated to identify services that can be combined or modified to realize cost savings for the City's stormwater program.

Overview of the Stormwater Management Planning Process

This SDMP update was initiated by the City in May 2011, with work continuing through June 2012. The intent of the project is to update the list, priorities, and costs of the City's Stormwater Program. The SDMP includes:

- Summary of the physical drainage and drainage-related characteristics of the City (Section 2)
- Review and assessment of the City's current Stormwater Management Program in comparison to regulatory requirements, including maintenance program responsibilities. Assessment of staffing and revenue needs to comply with regulatory requirements (Section 3)
- Document existing storm drainage problem areas and development of stormwater CIP program, including program costs and 10-year implementation plan (Section 4)
- Outline of the City's Watershed Enhancement Program to provide water quality related outreach and educational opportunities (Section 5)
- Estimation of future revenue needs and a financial plan to ensure adequate resources for implementation (Section 6)

The City intends to use the SDMP as a guide in implementing the Stormwater Program over the next five to ten years.

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City of Burien

Storm Drainage Master Plan

Section 2: Characterization of the Study Area

Service Area

The City’s Stormwater Program service area (the City limits) is approximately ten square miles. The City used an extensive Geographic Information System (GIS)-based stormwater inventory to visually track 112 miles of pipe, 32 miles of swales and conveyance channels and nearly 6,000 publically maintained catch basins and other stormwater structures. The City also maintains 15 public water quality/detention ponds and 42 other stormwater facilities (includes oil water separators, water quality vaults, water quality filters). An overview map of the City’s drainage system is included in Section 4. The City maintains a map book of the drainage infrastructure throughout the City limits. The map book can be viewed on the City’s website.

Drainage Basins

The City limits include three major drainage basins – Salmon Creek, Miller Creek (including Lake Burien), and Puget Sound. There are five subbasins within the Salmon Creek drainage basin; 23 subbasins within the Miller Creek basin; and eight subbasins within the Puget Sound drainage basin. Small areas of the City also drain to the Duwamish River, Seola Creek, and Des Moines creek as shown on Figure 2-1 and Table 2-1.

Table 2-1 Drainage Basin Areas Within City Limits	
Drainage Basin ID	Area (Acres)
Miller Creek	3,638
Lower Puget Sound – South	1004
Duwamish River	856
Salmon Creek	473
Lower Puget Sound – North	198
Seola Creek	90
Des Moines Creek	79

Adjacent and Downstream Drainages

Figure 2-1 shows a significant number of flows that originate outside the City and drain into the City limits. Flows from the north include Seola Creek, Salmon Creek (primarily Lake Hicks and the neighboring subbasin), and Miller Creek through a tributary that drains to and is pumped from the Hermes Depression to Miller Creek. Flows from the east primarily originate from the City of SeaTac. Small portions of southern Burien flow out of the City into Normandy Park and Des Moines Creek drainage basins. Remaining flows from the City originate in the bluffs on the west side of the City and empty into Puget Sound.

Hydrologic Characteristics

The hydrologic characteristics of the City are determined by climate, geology topography, geology, and land use. Streams, lakes, wetlands, steep slopes and floodplains manage and direct natural runoff flows through detention, treatment, and infiltration. As development occurs, these natural drainages are modified, often changing the performance and function of these natural drainage facilities and redirecting flows from one basin or watershed into another.

Climate

The City is part of the Puget Sound geographic region, which experiences a marine climate characteristic of the West Coast region. Average annual precipitation in this area is approximately 38.1 inches with the rainy season beginning in October and continuing through March, often extending into June.

The 2009 King County Surface Water Design Manual includes design storms for estimating stormwater runoff during storm events. The design storms for the City of Burien are:

- 2-year, 24-hour: 2.1 inches
- 10-year, 24-hour: 3.0 inches
- 25-year, 24-hour: 3.45 inches
- 100-year, 24-hour: 4.3 inches

During the development of this plan, the City experienced several rainfall events that resulted in numerous drainage complaints. While these events were not significant in overall rainfall, they did result in localized flooding and the drainage problem areas were identified and included in the Section 4 analysis.

Topography

Topography defines the drainage basins and has an effect on the direction and velocity of surface water flow and drainage paths. Over 1.2 million years ago the City's landform and topography was formed by repeated advancement and retreat of glaciers. The City's topography is made up of numerous depressions formed by glaciations marks. The western

side of the City includes steep coastal bluffs. There are numerous streams and storm drains that drain generally from east to west to the coastal bluffs of the Puget Sound.

Geology

Figure 2-2 shows the geology within the City limits. Mapping of surficial geology by Waldron indicates that the natural geologic landforms in the Burien area generally consist of recessional outwash, glacial till, and advance outwash.

Critical Areas (Sensitive Areas, Steep Slopes, Wetlands, Floodplains)

The City has classified its critical areas by stream buffers, landslide area, seismic hazard area, wetlands, aquifer recharge area, wetland buffers, and flood plains. Figure 2-3 shows the mapped sensitive and critical areas in the City.

Land Use

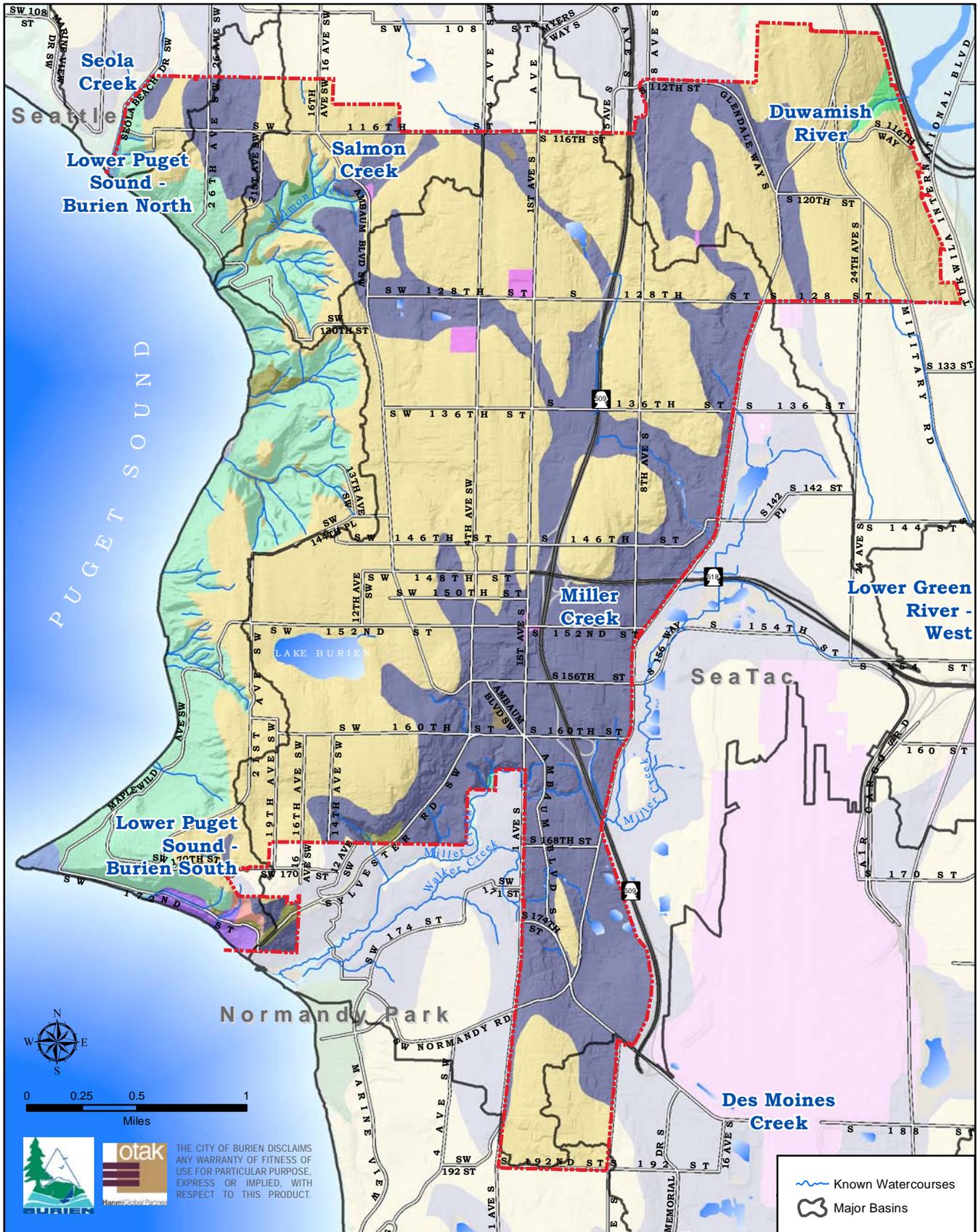
Most of the City of Burien has already been developed. Undeveloped land is generally in park areas and along steep coastal bluffs on the west side of the City. Developed areas in the City are primarily residential. Commercial areas are located along the Ambaum Boulevard SW Corridor, 1st Avenue South corridor, and an area centered around City Hall. A small industrial area is located in the southeast portion of the City.

The City, in partnership with the Port of Seattle, has completed its Redevelopment Plan and Implementation Strategy for the 135-acre Northeast Redevelopment Area (NERA), located between 8th Avenue South, Des Moines Memorial Drive, and South 138th Street. The goal of the plan is to transform the NERA from a mixture of vacant, residential, public and small commercial land uses to uses compatible with Sea-Tac International Airport operations and existing and planned surrounding land uses.

In 2010, the City annexed approximately 2.6 square miles (14,000 residents) from King County in the North Highline area. At the time of this SDMP, the City was in the process of evaluating annexation of a second area in North Highline that would add approximately 3.6 square miles (32,000 residents) to the City limits. This plan does not evaluate the programming or infrastructure requirements that would be required to support such a future annexation.

Study Area Considerations

The following study area considerations are primary drivers for this plan. The programs, projects, and future studies to address issues related to water quality and closed depressions are included in Sections 3, 4, and 5 of this SDMP.

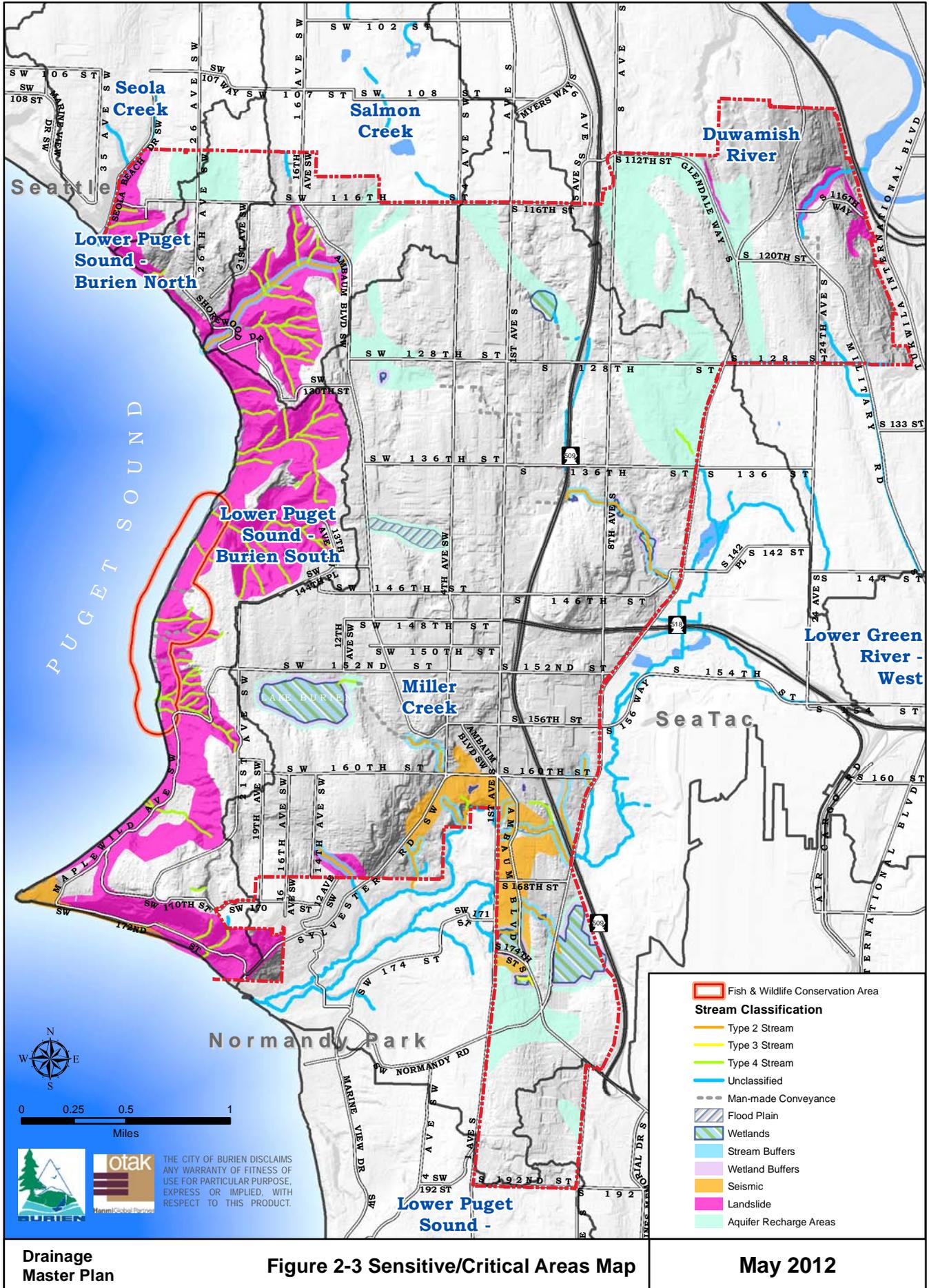


- | | | | |
|--------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------|
| Advance outwash deposits | Mass-wastage deposits (Holocene and Pleistocene) | Sedimentary deposits of pre-Fraser glaciation age (Pleistocene) | Tukwila Formation (late and middle Eocene) |
| Beach deposits (Holocene) | Modified land (Holocene) | Surficial deposits, undivided (Holocene and Pleistocene) | Vashon Drift, undivided |
| Ice-contact deposits | Recessional outwash deposits | Till | Wetland deposits (Holocene) |
| Intrusive rocks (Miocene, Oligocene, and Eocene) | Renton Formation (late and middle Eocene) | Transitional beds (Pleistocene) | Younger alluvium (Holocene) |

Drainage Master Plan

Figure 2-2 Major Drainage Basins w/ Geology Map

May 2012



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 Last updated: 5/23/2012
 By: Fernandol

Lake Burien Water Quality

Lake Burien is a small lake and a designated shoreline area located in central Burien that eventually drains to Miller Creek. Volunteer monitoring of Lake Burien coordinated through King County occurred in 1994, 1998, and 2000-2004. Unofficial monitoring activities coordinated by private residents have continued beyond the King County effort with data supplied to the City's Shoreline Master Plan process.

The trophic state index data collected through King County was used to classify Lake Burien as low to moderate in primary productivity (oligotrophic – mesotrophic) with very good water quality that was steady over the time period in which data was collected. However, local residents are concerned about the water quality of Lake Burien and interested in supporting City programs to maintain long term watershed health. Lake Burien does not have public access, so the City has limited direct influence on lake management or water quality. Instead, the City focuses efforts on public outreach and education to improve practices (animal waste, fertilizer use, etc.) of the surrounding and upstream properties. The City also looks to add water quality treatment facilities when developing capital projects in the surrounding area. See Sections 4 and 5 for additional information about the City's capital programs and Watershed Enhancement activities related to Lake Burien.

Arbor Lake Water Quality

Arbor Lake is another small lake located in north Burien with reported algae bloom problems. Arbor Lake is the headwaters to Miller Creek. While the lake is not accessible to anadromous fish such as salmon, the lake supports numerous other fish and birds species. The Lake is supported by neighborhood volunteers who often join together with Burien Park, Recreational and Cultural Services to remove invasive species around the Lake, thereby boosting habitat for native species. As with Lake Burien, providing public education and outreach regarding the water quality issues with Arbor Lake will help the long term health of the Lake.

Miller/Walker Creek Watershed

Miller Creek flows approximately six miles through urban areas of Burien and adjacent communities. Walker Creek also runs through a similar urban area of Burien and adjacent communities for two miles. There are multiple jurisdictions that drain to these two creeks including Burien, Normandy Park, SeaTac, King County, the Port of Seattle, and the Washington State Department of Transportation. In 2006, King County published the Miller and Walker Creeks Basin Plan, addressing surface water quality, flooding, stormwater infrastructure capacity, and fish habitat issues. While the plan was developed as a joint effort between the surrounding cities and King County, authorization and funding for capital projects is the responsibility of individual jurisdictions or through separate interlocal agreements.

The Miller/Walker Creek Watershed benefits from mitigation measures constructed as part of SeaTac Airport's 3rd Runway Project. The watershed also encompasses the NERA and stormwater management and mitigation projects are a key aspect of future development in the NERA. Section 4 includes projects to support and restore watershed health in the Miller/Walker Creek basin.

Closed Depressions

Burien is home to numerous closed depressions where stormwater collects without a defined outlet. Major closed depressions include Hermes Depression, Mayfair Depression and the 142nd Street Depression. There are no stormwater outlets from these three depressions, which causes reoccurring localized flooding issues. Each of these depressions need a long term master plan to address the connectivity between depressions and to identify facility upgrades or retrofits to improve drainage capacity and water quality. Basin studies to address challenges with the closed depressions are included in Section 4.



City of Burien

Storm Drainage Master Plan

Section 3: Stormwater Program Analysis

This Section provides an analysis of the City's Stormwater Program for compliance with regulatory obligations and other necessary administrative functions. The primary regulation driving the City's stormwater program is the NPDES Phase II Permit. The City is also subject to compliance with the State Underground Injection Control Rule, the Federal Endangered Species Act, and the Puget Sound Action Agenda. The City's Stormwater Program already includes many of the required legal authorities, programmatic activities, services, and maintenance actions needed for compliance. Some of these activities will need to be enhanced or expanded for full compliance with current and future regulations.

Analysis Structure

The analysis includes an overview of the City's regulatory obligations, including milestone dates, current activities, and future activities needed for compliance, along with a summary of the current organization, staffing and the stormwater utility budget. The program analysis evaluates both existing (as of 2011) and future required activities, staffing, and resources. The analysis is structured according to the following sections:

- NPDES Phase II Permit
 - Public Education and Outreach (Special Condition S5.C.1)
 - Public Involvement and Participation (Special Condition S5.C.2)
 - Illicit Discharge Detection and Elimination (Special Condition(S5.C.3)
 - Controlling Runoff from New Development, Redevelopment, and Construction Sites (Special Condition S5.C.4)
 - Pollution Prevention and Operation and Maintenance for Municipal Operations (Special Condition S5.C.5)
 - Total Maximum Daily Load Requirements (Special Condition S7)
 - Monitoring (Special Condition S8)
 - Reporting (Special Condition S9)
- Regional Stormwater Planning (ESA, WRIA, and Puget Sound Action Agenda)
- Underground Injection Control Rule
- Capital Improvement Program
- Additional Activities

A summary of existing and future required activities for each program element is presented below. The detailed results of this regulatory gap analysis are presented in Appendix 3-2. The results of the program analysis, including a summary of existing and future staffing and program expenses are summarized in Table 3-1 at the end of this section.

NPDES Phase II Municipal Stormwater Permit

The City of Burien has been identified by Ecology as a NPDES Phase II community. All Phase II communities are expected to develop a stormwater program that includes the required activities, implement those activities within the required timeframes over the permit term, and submit annual reports to Ecology to document progress toward complete program implementation. The requirements of the Phase II Permit apply throughout the entire incorporated area of the City. The City has been implementing the requirements of its NPDES Phase II Permit over the past several years. Documentation of the City’s compliance activities is summarized in 2007- 2011 Annual Reports, which are available at City Hall for review.

The analysis in this section is based on the Draft NPDES Phase II Permit published by Ecology in October 2011. The permit requirements are subject to change prior to final issuance in August 2012.

Permit Timeline

The current Phase II Permit became effective February 16, 2007 and was modified on June 17, 2009. The permit covered a five-year period that was set to expire on February 15, 2012. On October 19, 2011, Ecology released the new Draft Phase II Municipal Stormwater Permit for public comment. In 2012, Ecology expects to issue both an extension to the current permit and a new Phase II Permit with a new effective date of August 2013. See Figure 3-1 for the proposed permit re-issuance schedule.

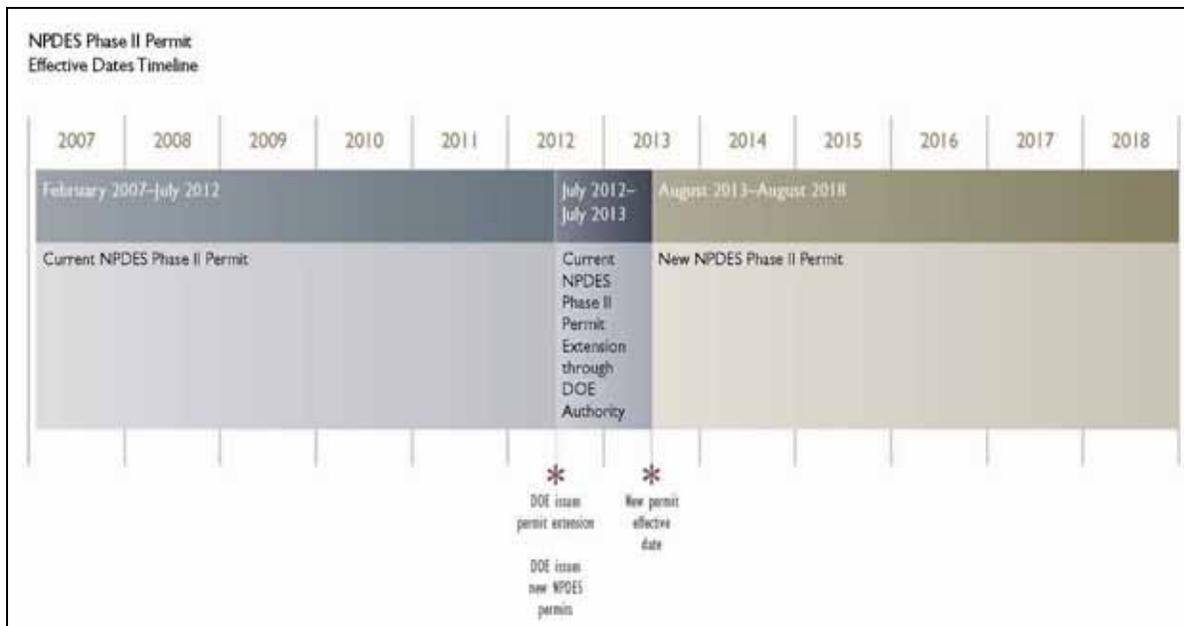


Figure 3-1: NPDES Phase II Permit Effective Dates Timeline

The general permit requirements are expected to remain the same with the issuance of the new permit, with some exceptions and some additions. A summary of the changes can be found in Appendix 3-1. See Figure 3-2 for the Phase II Permit proposed due dates.

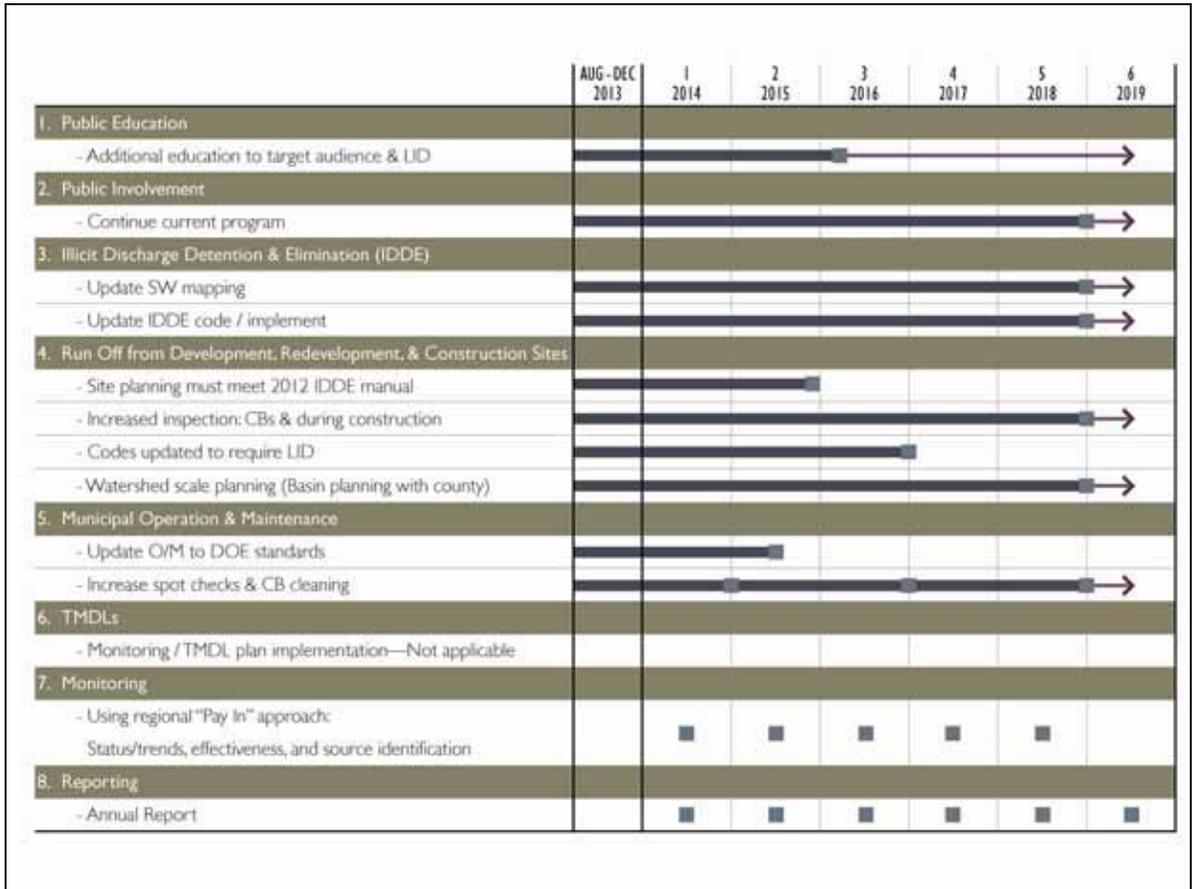


Figure 3-2: Proposed NPDES Phase II Permit Requirements and Milestones

Public Education and Outreach (S5.C.1)

The City has an active public education and outreach program. Recent activities include:

- Partnering with the Environmental Science Center to measure public education effectiveness
- Storm drain stenciling program
- Participating in the Miller/Walker Creek Basin Stewardship program
- Erosion and Sediment Control brochures available for small construction sites

- Conducted natural lawn care workshops through the Environmental Science Center
- Distributing Low Impact Development (LID) information to developers during pre-application meetings with City Staff.
- Posting natural yard care information, as available on the City's website
- Publishing educational information in the City newsletter and on the City website,
- Publicizing and distributing car wash kits for charity groups
- Active participation in the STORM group (the Regional NPDES Education and Outreach Forum) and the *Puget Sound Starts Here* campaign



Natural Yard Care Workshop

As part of the upcoming new Phase II Permit the City will be required to focus the education and outreach efforts on prioritized target audiences, including the business community, property owners/managers, and school aged children. The City is required to evaluate the effectiveness of the outreach program by 2016. Section 5 of this plan includes a detailed summary of the City's planned Watershed Enhancement Program, which is designed to address the Public Education Requirement of the Phase II Permit.

Program Implementation

These increased efforts will require some additional staff time and additional funding beyond current levels starting in 2013.

Public Involvement and Participation (S5.C.2)

As required, the City posts the most current Annual Report to Ecology and the Stormwater Management Program update on its website. In the summer of 2011, as part of the development of the SDMP, the City conducted a stormwater survey to request information about known stormwater problems. The City formed an Advisory Committee to participate in the development and review of this SDMP. As part of the upcoming new Phase II Permit the City will need to ensure the Annual Report and Stormwater Management Program documents are posted on their website by May 31 each year. The City must continue to provide opportunities for public involvement and participation in the stormwater program.

Program Implementation

No changes to staffing or funding are required.

Illicit Discharge Detection and Elimination (S5.C.3)

The City has adopted an ordinance to address Illicit Connections and Illicit Discharge Detection and Elimination (Burien Municipal Code (BMC) Chapter 13). The ordinance

includes a list of allowable and prohibited discharges to the City's drainage system and streams. The ordinance includes escalating enforcement procedures and actions. The Code Enforcement group is responsible for all IDDE Code Enforcement activities.

Over the last few years, the City has spent considerable effort establishing a comprehensive inventory of the stormwater infrastructure. All stormwater system data is available in GIS format and is maintained by the City's GIS and IT Department. The GIS Stormwater Map is available on the City's website and upon request from the public.

The City has established a general IDDE Program to implement the Phase II Permit Requirements. Current activities include:

- Contracting with King County to conduct a "Water Quality Audit" program that performs visits to commercial businesses to provide education on illicit discharge. Follow-up enforcement is the responsibility of the City's Code Enforcement Officer.
- Performing visual inspections of priority receiving waters (Miller Creek, Walker Creek, and Salmon Creek) with technical assistance from King County and Ecology.
- Establishing a hotline¹ for citizens to report spills and illicit discharges.
- Contracting with King County to respond to major spills.
- Maintaining records of the IDDE program in CityWorks (public works asset management software).
- Holding IDDE training for all field staff, including follow-up training as staff comes on board or new policies/procedures are put into place.

Program Implementation

To address ongoing NPDES Phase II Permit requirements, the City will need to establish a written IDDE Plan and Procedures Manual and identify primary staff responsible for overseeing inspections and follow-up activities. The procedures manual should be developed, taking into account the IDDE program requirements in the new permit. The new Permit will also require the City to expand IDDE inspections in 2013 to cover all catch basins on a rotating basis. With proper staff training, the IDDE inspections can be conducted jointly with required maintenance inspections, saving both staff resources and program cost.



¹ IDDE Hotline: (206) 439-3154

Controlling Runoff from New Development, Redevelopment, and Construction Sites (S5.C.4)

The City's oversight of development is codified in BMC Chapter 13. The City has adopted the 2009 King County Surface Water Design Manual (KCSWDM) with no exemptions to guide stormwater management from new development and redevelopment projects. The ordinance allows non-structural preventive actions and source reduction approaches, such as LID techniques, to minimize the creation of impervious surface and the disturbance of native soils and vegetation.

The City's Stormwater Engineer works with the Community Development Department to conduct a drainage review of all proposed development and redevelopment projects and to conduct required site inspections during and post construction. The City tracks all development reviews and inspections in CityWorks.

The new NPDES Phase II Permit requirements will place an increased emphasis on the evaluation and use of LID techniques to manage stormwater runoff and water quality. All codes, rules, standards and other enforceable documents must be revised to require LID principles and LID Best Management Practices (BMPs). The City must conduct an LID review and revision process of their existing codes and report the results to Ecology. These code revisions will apply to both the stormwater ordinance and the City's overall development code. LID amendments must include measures to minimize impervious surfaces, measures to minimize loss of native vegetation, and measures to minimize stormwater runoff.

Program Implementation

These new Permit requirements will mean increasing workload for the City's Stormwater Engineer under the new NPDES Phase II Permit. Initially, the work will need to focus on the required code revisions to incorporate LID principals. As the economy recovers, drainage review for development and redevelopment will likely expand to a full-time staff position. Currently, the City has elected to not reimburse the Stormwater Program with development fees that could potentially help cover the costs of an additional staff person. The new Permit will also require additional staff training on LID and requirements in the 2012 Ecology Manual.

The stormwater program will need to partner with Community Development to complete the required development code review and update to remove barriers to the use of LID in the City. Through that process, the City can evaluate whether LID techniques will be required, encouraged, or incentivized during the site planning phase. Utilizing LID techniques in stormwater management is already required through the 2009 KCSWDM.

The City should also consider evaluating the water quality treatment standards for incorporated areas. The 2009 KCSWDM designates all unincorporated areas as either Basic Treatment or Sensitive Lake Water Quality Treatment areas. The City has not established equivalent designations within the City limits and should consider whether the more stringent Sensitive Lake Water Quality Treatment standard should be applied to areas surrounding local waterbodies.

Pollution Prevention and Operation and Maintenance for Municipal Operations (\$5.C.5)

Contracted Maintenance Services

The City currently contracts most major maintenance activities to King County. The City does not yet own a street sweeper, vactor truck, or other stormwater system maintenance equipment. The City's limited fleet of maintenance vehicles is housed at the City's Public Works Maintenance Shop (rental facility). The City has a long-term vision to purchase property for the construction of a permanent maintenance shop, equipment yard, and storage area. Establishing a maintenance facility and purchasing equipment are two major steps in allowing the City to staff their own maintenance program and move away from contracts with King County.



**Local Burien Roadside
Drainage Ditch**

Inspections

The City has been contracting with King County to perform required inspections of water quality and flow control facilities on an annual basis. The City also inspects catch basins on a rotating basis with a plan to have all catch basin inspected once before the current Phase II Permit ends. At the end of 2011, the City had completed inspections of all 5,900+ catch basins within the City limits, cleaning those that exceeded sediment accumulation standards. The new permit is expected to increase catch basin inspection frequency from once in the 5-year permit term to once every other year. Stormwater facilities will still require annual inspections.

The short term plan is for City staff to start conducting all construction and stormwater facility inspections as required by the NPDES Phase II Permit. The City will take on additional maintenance activities as equipment can be purchased and new staff can be hired.

Stormwater System Maintenance

The City's Stormwater Program includes an annual stormwater facilities maintenance program. This program includes maintaining the proper function of stormwater facilities through cleaning, mowing, inspection and repair/replacement activities. The NPDES Permit

requires the City to take corrective maintenance action based on the state of each catch basin or stormwater facility during maintenance inspections. While maintenance standards are not changing in the new NPDES Permit, the increased inspection frequency is likely to identify more areas that need maintenance attention. The capital program evaluation (Chapter 4) also identified a list of drainage concerns that were referred for additional maintenance.

The City also contracts with King County Street to conduct street sweeping to reduce particulate and pollutant loading to the conveyance system and local receiving waters. Public streets are swept twice per year with downtown streets and arterials swept at a higher frequency.

Complaint Response

The City's Stormwater Program is responsible for receiving and responding to public complaints. Drainage complaints are documented and responded to using maintenance referrals or Customer Service Request Forms, as submitted by citizens at City Hall or through complaints received on the phone. Depending on the nature and magnitude of the problem, City staff addresses it internally or brings in assistance from outside agencies or contractors.

Response to water quality complaints and spill reports will become part of the City's Illicit Discharge and Elimination program that is required by the Phase II Permit.

Minor Surface Water Improvements

Maintenance crews actively investigate and address minor stormwater issues such as isolated flooding or erosion, and conducts repairs. Most of these repairs are made in the field and are routinely conducted by maintenance crews. Small works projects have been identified and included in Section 4.

Pollution Prevention

The City is implementing practices to reduce stormwater impacts associated with runoff from streets, parking lots and roads maintained by the City including pipe and culvert cleaning, ditch and roadside areas maintenance including vegetation management, street sweeping and cleaning, and street repair and resurfacing per the requirement of the King County Road Standards. The City also conducts snow and ice control, with priority removal focused on arterial streets and residential streets addressed on an emergency basis and uses techniques to help prevent impacts to the local waterways.

The City has an Integrated Pest Management Brochure and uses pollution prevention techniques during sediment and erosion control, landscape maintenance and vegetation disposal, street repair/resurfacing and trash management (through a franchise agreement).

The City is not conducting building exterior cleaning and maintenance. The City is also implementing a Stormwater Pollution Prevention Plan for the public works storage area.

Recordkeeping

The City uses CityWorks to track operations and maintenance activities.

Program Implementation

The City will need to continue all current maintenance program activities. Maintenance crews will take on the additional responsibility of conducting all facility and catch basin inspections, combining the required maintenance inspection and IDDE inspection into a single site visit. This will require additional staff time to complete approximately 3,000 catch basin inspections annually, but will reduce the expense of contracting those services to King County. Inspection staff will need additional training to understand the inspection requirements and all maintenance staff should receive ongoing training to understand stormwater facility maintenance standards, illicit discharge reporting, pollution prevention techniques, and the importance of recordkeeping.

The increased inspection requirements also come with an added recordkeeping burden. The City needs an efficient system to translate inspection records into maintenance work orders and a system to track that maintenance actions have been completed. The City may also consider integrating tracking of maintenance activities with the existing GIS system. The NPDES Permit will allow the City to reduce the required inspection frequencies if inspection records show that portions of the system do not need frequent attention. The City's efforts in developing comprehensive maintenance records may pay off with reduced inspection requirements in the future.

Total Maximum Daily Load Allocations (S7)

There are no applicable Total Maximum Daily Load (TMDL) water bodies in Burien, in either the current or upcoming Phase II Permit.

Program Implementation

No change to the existing staffing or program funding.

Monitoring (S8)

The City has submitted all monitoring documents required under the current Phase II Permit including the required monitoring site selection documents to Ecology that identify potential locations for regional monitoring activities. The new NPDES Phase II Permit gives the City the option of conducting their own monitoring program or paying in to a collective fund that Ecology will use to conduct regional monitoring activities. Phase I Permittees are spending hundreds of thousands of dollars annually to conduct their own monitoring

programs under the existing Phase I Permit. The draft Permit identified that Burien's cost to pay into the regional monitoring program will be approximately \$32,000 per year.

Program Implementation

The City should budget to participate in the regional monitoring program at an annual cost of approximately \$32,000 per year. In addition to the significant cost savings over conducting an individual monitoring program, the pay-in program shifts liability and responsibility away from the City and to Ecology for meeting the monitoring obligations of the Phase II Permit.

Annual Reporting (S9)

The City completed their Annual Report and Stormwater Management Program (SWMP) documents each year and submitted the two documents to Ecology annually in March. As part of the upcoming new NPDES Phase II Permit the City will continue to submit annual reports to Ecology.

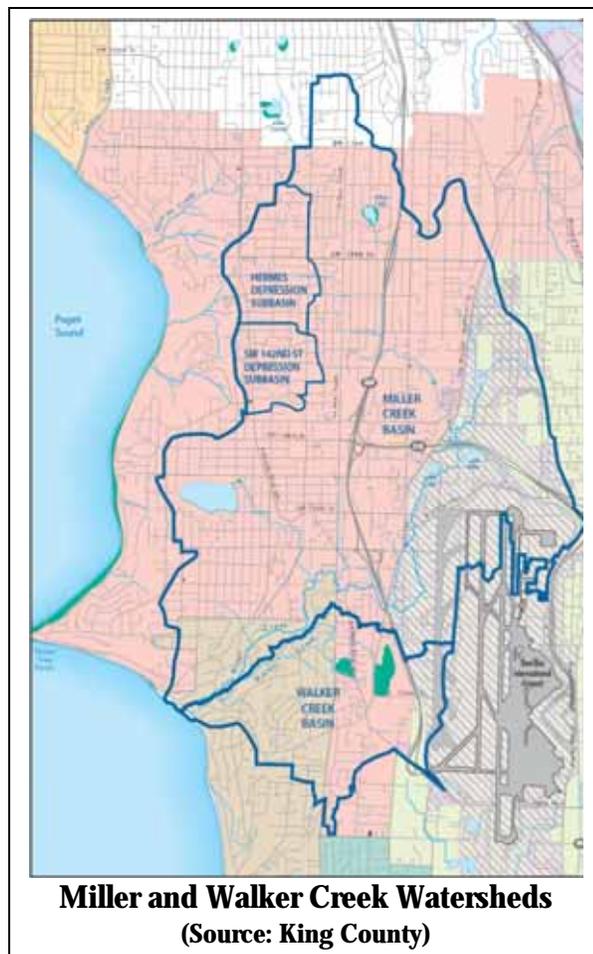
Program Implementation

No change to the existing staffing or program funding.

Regional Watershed Planning

Endangered Species Act and Water Resources Inventory Area Planning

In 1999, the federal government listed the Puget Sound Chinook salmon and bull trout as threatened in the Puget Sound Region. Steelhead trout are also protected under the same regulations as threatened Pacific salmonids. In the Puget Sound region, a coalition of local governments has created a Regional Forum system to coordinate protection and restoration efforts on a watershed basis. The Regional Forum is organized by Water Resource Inventory Area (WRIA), consistent with the watershed identification system used by Ecology and other state resource agencies.



The City is part of WRIA #9 in the Green/Duwamish and Central Puget Sound Watershed. As part of WRIA #9 planning and the Miller/Walker Creek Stewardship Program, the City has conducted the following activities to work toward a healthy basin:

- Adult salmon monitoring
- A volunteer program conducting stream restoration projects including planting trees and controlling invasive weeds
- Public education presentations.
- Basin planning
- IDDE program and water quality investigations
- Development standards to help improve the health of these two creeks.

In May of 2006 King County published a report titled “Prioritization of Marine Shorelines of WRIA #9 for Juvenile Salmonid Habitat Protection and Restoration”. This report identified Puget Sound shoreline habitat in southern King County that should be preserved or restored to help salmon, including prioritizing nearshore habitat in Burien that provides important habitat for young salmon after they have left the freshwater streams where they hatched and reared.

Between 1998 and 2009 the Green/Duwamish and Central Puget Sound Watershed Ecosystem Form comprised of 16 cities, including Burien, made recommendations to the King Conservation District on watershed protection, restoration and salmon conservation projects to be funded leveraging King Conservation District to secure matching grants.

Projects completed include:

- The King County Miller Creek Basin Plan that outlined an inter-jurisdictional plan for stormwater management, water quality protection and habitat improvements in the watershed
- City of Burien: Seahurst Park Monitoring 2007 to determine the success of a 2005 bulkhead and shoreline restoration project for adaptive management
- City of Burien Walker Creek Headwaters Purchase that acquired 21 acres of wetlands to protect them from development
- City of Burien Seahurst Park Nearshore Restoration that identified fish use and other habitat elements before construction of site restoration projects to understand success of such restoration projects

Puget Sound Action Agenda

In April, 2007, the Washington State Legislature passed legislation creating the Puget Sound Partnership (Partnership) to coordinate and lead the effort to restore and protect Puget Sound. (The Puget Sound Partnership replaced the former Puget Sound Action Team.) The Partnership’s charge is to define a strategic action agenda that prioritizes necessary actions based on science and includes clear, measurable goals for the recovery of Puget Sound by 2020. Adopted December 1, 2008, the Puget Sound Action Agenda replaces the prior Puget

Sound Water Quality Management Plan. The Action Agenda sets state policy, is a strategy for cleaning up, restoring and protecting Puget Sound, and includes five strategic priorities:

- Protect intact ecosystem processes, structures, and functions
- Restore ecosystem processes, structures, and functions
- Reduce the sources of water pollution
- Work effectively and efficiently together on a priority basis
- Build an implementation, monitoring, and accountability management system

The Partnership's major focus since publishing the Action Agenda in December 2008 has been to evaluate ecosystem status and develop a performance management system to manage recovery efforts. Interdisciplinary teams comprised of business, environment, local governments, local organizations and academia are working towards developing strategies and actions to reduce effects from five components that negatively impact Puget Sound's ecosystems: land development, shoreline alteration, runoff from built environment, wastewater, and loss of floodplain function. Until the current work of the Puget Sound Partnership Leader Council is completed, there is no new direction regarding stormwater management priorities.

Currently, the City is addressing the Action Agenda priority for managing stormwater runoff in urban areas to reduce stormwater impacts by implementing its NPDES Phase II Permit requirements and encouraging LID for new development and redevelopment.

Program Implementation

The City currently participates in regional watershed planning by making annual contributions to fund WRIA #9 and Miller/Walker Basin Stewardship Program. Because of the regional planning efforts already conducted for Miller/Walker Creeks, the City benefits greatly from the stewardship work in the local watershed. The City plans to continue participating in these program and providing annual funding for projects.

Underground Injection Control Rule

The activities required for compliance with the State's Underground Injection Control (UIC) Rule depend on the number and type of underground injection control facilities (such as dry wells or underground infiltration galleries) that the City uses for stormwater management. With no known publically owned UIC facilities, the City is not under any current UIC rule obligations. When evaluating solutions to address drainage challenges in the City's closed depressions, the City should pay careful attention to the State UIC rule. Any new or retrofitted injection facilities must comply with the requirements of WAC 173-218.

Program Implementation

No change to the existing staffing or program funding.

Capital Improvement Program

The Capital Improvement Program analysis focuses on the staffing and resources required to implement construction projects that will maintain and enhance the storm drainage infrastructure. Currently, the City contracts for engineering and construction services to design and construct approximately one stormwater-related capital improvement project each year. The City also maintains a small works roster for projects that City staff can design in-house with construction costs less than \$100,000. The City also leverages Stormwater Program funds to upgrade stormwater infrastructure when transportation or other utility projects are scheduled on local roadways.

Program Implementation

No change to the existing staffing or related program funding. See Section 4 for a detailed analysis of the City's stormwater CIP and the annual cost for construction projects.

Additional Activities

Additional Activities includes administrative functions of the Stormwater Program, interest payments, overhead costs, and fees not covered in the above regulatory elements. The City pays administrative fees to King County to coordinate the billing and collection of the City's Stormwater Utility fees with property tax bills. The Stormwater Fund also pays a portion of the City's general overhead costs for items such as operating rentals and leases, janitorial services, and other miscellaneous items. Additional Activities also includes the Stormwater Programs interest payments on past loans and engineering services to support the program.

Program Implementation

Existing administrative activities, interest payments, and fees are expected to remain generally constant. The City would like to establish a "Maintenance Facility and Equipment" fund that would accumulate monies to purchase and construct a city-wide maintenance shop, equipment shed, and material storage facility. The fund would also pay for long term purchases of maintenance equipment (vactor truck, street sweeper, etc.) that would allow City staff to conduct more maintenance actions and reduce contracts with King County. The Maintenance Facility and Equipment fund would receive transfers from all Public Works Department (as well as other City Departments as determined by City Council). For budgeting purposes, the Stormwater Programs contribution is estimated at \$100,000 per year starting in 2013.

Stormwater Program Implementation Plan

The City's existing Stormwater Program already includes many of the required legal authorities, programmatic activities, services, and maintenance actions needed for compliance with stormwater regulations. Some of these activities will need to be enhanced or expanded for full compliance in the future with both the current and upcoming Phase II Permit. Table 3-1 provides a summary of the staffing and funding required for future Stormwater Program implementation. The detailed program analysis is included in Appendix 3-2.

Table 3-1: Summary of Existing and Future Stormwater Program Expense and FTE

Element	Existing Staff FTE	Existing Staff Cost (\$)	Existing Expense Cost (\$)	Future Staff FTE	Future Staff Cost (\$)	Future Expense Cost (\$)	Notes
1 – Public Education and Outreach	0.10	\$8,600	\$10,000	0.15	\$13,000	\$15,000	Increased outreach and measurement of outreach results as required by NPDES.
2- Public Involvement and Participation	0.05	\$7,800	\$0	0.05	\$5,000	\$0	No change.
3 – Illicit Discharge Detection and Elimination	0.50	\$43,200	\$42,700	0.60	\$50,000	\$30,000	IDDE inspections will be combined with maintenance program.
4- Controlling Runoff from New Development, Redevelopment	0.50	\$53,700	\$7,700	1.30	\$109,000	\$25,000	Revise development code for LID. Increase staffing to review development plans for LID stormwater facilities as required by NPDES.
5 – Pollution Prevention and Operation and Maintenance for Municipal Operations	6.40	\$412,900	\$520,700	7.30	\$608,000	\$503,000	Increase frequencies as required by NPDES. Shift responsibility from outside contracts to City staff.
6 – Program Implementation	0.00	\$0	\$0	0.05	\$4,200	\$30,000	Develop written program policies as required by NPDES.
7 – Total Maximum Daily Load Allocations	N/A	N/A	N/A	N/A	N/A	N/A	No TMDLs apply to the stormwater program.
8 – Monitoring	0.00	\$0	\$0	0.05	\$4,200	\$32,500	City must pay in to regional monitoring program as required by NPDES.
9 – Reporting	0.05	\$5,400	\$10,000	0.05	\$5,000	\$5,000	No change.
10 – Regional Watershed Planning	0.05	\$5,400	\$76,000	0.10	\$9,000	\$76,000	Increased attention to WRIA activities.
11- Underground Injection Control Rule	N/A	N/A	N/A	0.00	\$0	\$0	No change
12 – Capital Improvement Program	0.40	\$52,900	See Section 4	0.50	\$50,000	See Section 4	Program variable based on project development.
13 – Additional Activities	0.70	\$70,400	\$284,100	1.00	\$84,000	\$365,000	Increase funding for equipment purchase and future maintenance facility.
Total	8.75	\$660,000	\$951,000	11.25	\$942,000	\$1,082,000	
Grand Total	8.75	\$1,611,000		11.25	\$2,024,000		Operating only; See Section 4 for CIP

Short Term Implementation Activities

Over the next year, City should continue to conduct all current activities established to comply with the NPDES Phase II Permit including public education and outreach activities, public involvement and participation activities, development review, and regular maintenance activities. The City should fill the empty staff position (Stormwater Engineering Technician) to continue required IDDE activities and facility inspections. In addition, the City needs to complete the following activities in 2012 to maintain compliance with the current Permit:

- Conduct follow up survey to measure effectiveness of education efforts related to proper vehicle washing
- Post the 2011 Annual Report and 2012 SWMP Update on the City's website
- Develop IDDE written procedures for field assessments, and characterizing, tracing and removing sources
- Conduct quarterly Stormwater Pollution Prevention Plan (SWPPP) inspections and repairs as necessary for heavy equipment maintenance or storage yards and materials storage facilities

Long Term Implementation Activities

Starting with the new permit effective date in 2013, the City will need to expand or enhance the Stormwater Program in the following ways to address increasing Permit requirements:

- Evaluate target audiences and re-focus the City's public education messages to support the Watershed Enhancement Program (Section 5).
- Establish written plans and procedures for the City's IDDE Program, Development Review and Enforcement, Stormwater Maintenance Standards, Private Facility Inspection and Enforcement, and Municipal Maintenance Pollution Prevention Practices. A budget of \$30,000 (Element 6.1) has been allocated for this activity. Sample plans for some elements are available on the Ecology website. It is recommended that the City work with a consultant to ensure the programs will comply with Permit requirements.
- Expand IDDE Facility inspections to cover all publically maintained catch basins on a rotating basis (starting in 2013). These inspections should be combined with required maintenance inspections and conducted by City staff.
- Conduct follow-up investigations of identified IDDE concerns. Follow corrective action and enforcement procedures as needed.
- Conduct annual training for City staff responsible for IDDE inspections, and maintenance activities, and development review. An annual training budget of \$20,000 has been allocated between Elements 3.6, 4.6, and 5.7.
- Perform and track maintenance activities performed in response to facility inspections.
- Continue to evaluate contracted services and identify activities and equipment needs to expand the services that can be performed by City staff.

- Revise City Code to incorporate LID requirements for both planning, development approval, and engineering design standards. Additional staff time and a budget of \$15,000 (Element 4.1) have been allocated for this activity.
- Pay into the regional monitoring program (starting in 2013).
- Actively participate in regional watershed planning efforts, advocating for regional funding to support projects in City of Burien watersheds.
- Establish a maintenance facility and equipment fund and designate annual transfers from the Stormwater Program to fund future construction of a City maintenance shop and vehicle/equipment storage yard.
- Construction of a new maintenance facility will also require development and implementation of a SWPPP for the new facility. Development of the SWPPP should be included in the cost of designing the facility.

Staffing Plan

In the 2011 budget, the Stormwater Program funded 8.75 FTEs². This includes:

- 0.45 FTE Public Works Director
- 0.5 FTE Maintenance Supervisor
- 0.8 FTE Stormwater Engineer, including 0.5 FTE for development review and 0.3 FTE for the CIP program
- 1.0 FTE Stormwater technician (currently not filled) to coordinate facility, IDDE, and maintenance inspections and follow-up investigations
- 5.5 FTE Maintenance worker
- 0.5 FTE Administrative support

The program analysis shows an overall need for 2.5 additional FTEs to support the Stormwater Program. Additional staff time is recommended in the following areas:

- Add 0.5 FTE City Engineer – New position possibly shared with transportation program budget to oversee the City’s capital programs and contracting of engineering services. This position would also include coordination with maintenance staff for small infrastructure repairs.
- Add new 1.0 FTE Stormwater Engineer – new position to coordinate the City’s NPDES permit requirements, including implementing increasing LID requirements, coordinating public outreach efforts, tracking and responding to stormwater related complaints, overseeing the stormwater utility billing with King County, establishing consistent policies, procedures, and tracking mechanisms across the Stormwater Program, and writing grant applications for additional Stormwater Program activities and infrastructure.

² The 2012 budget included the hiring of seasonal staff to conduct additional maintenance activities. Seasonal hires are not included in the FTE calculations and are rather budgeted as an ongoing and recommended program expense.

- Add 0.5 FTE to Stormwater Engineer – brings Stormwater Engineer to 1.3 FTE, with 1.0 FTE allocated to development review and site inspections, and 0.3 FTE remaining for the CIP program. Initially, the development review work will need to focus on revising City code to incorporate LID principals. As the economy recovers, drainage review for development and redevelopment will likely expand to a full-time staff position.
- Add 0.5 FTE to Maintenance Worker – brings Maintenance Worker to 6.0 FTE for maintenance staff to take on increasing responsibility for tasks currently contracted to King County and to increase catch basin inspections to every other year.

Stormwater Program Budget

Table 3-1 shows that Programmatic activities presented in this section are expected to require \$2,024,000 annually starting in 2013. This funding is necessary to meet minimum compliance requirements of the NPDES Phase II Permit and other regulatory obligations. In addition to increased funding to pay for staff salary and benefits, the stormwater program budget will see the following significant changes in 2013:

- Increased Public Outreach programs at \$10,000 per year (Element 1.1)
- Increased cost for staff training (\$20,000 in Elements 3.6, 4.6, and 5.7).
- Stormwater program contribution to a larger Community Development project to revise City Code to incorporate LID requirements as required by the Permit (\$15,000 in Element 4.1).
- Increased cost to develop written plans and procedures for the City's IDDE Program, Development Review and Enforcement, Stormwater Maintenance Standards, Private Facility Inspection and Enforcement, and Municipal Maintenance Pollution Prevention Practices (\$30,000 in Element 6.1).
- Increased cost to conduct additional conveyance system cleaning (\$25,000 in Element 5.5).
- Savings of approximately \$115,000 (Elements 3.3, 5.2 and 5.4) by reducing contracts with King County and conducting facility and catch basin inspections with City staff.
- Annual Pay-in to the regional monitoring program (\$32,000 in Element 8).
- Stormwater program contribution to a fund to support future purchase of maintenance equipment and development of a City-wide maintenance shop and storage area (\$100,000 in Element 13.1).

The stormwater program will also fund the CIP program presented in Section 4.

Additional Considerations

This Program Analysis includes Stormwater Program costs based on the City's service area in 2012. The analysis does not evaluate the Stormwater Program requirements that would be needed to support potential future annexations. Stormwater program impacts should be thoroughly evaluated when planning for services in any future annexation areas. Adding

service area to the City can affect the stormwater program by adding additional program area for NPDES Phase II Permit requirements, increasing the maintenance service area, increasing need for CIP projects to address aging infrastructure or to bring existing systems up to City standards, and bringing new liability for water quality issues in the annexation area. However, any new annexed area will also directly increase the stormwater program budget through the addition of new utility rate payers.

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City of Burien

Storm Drainage Master Plan

Section 4: Stormwater Program Capital Needs

Introduction

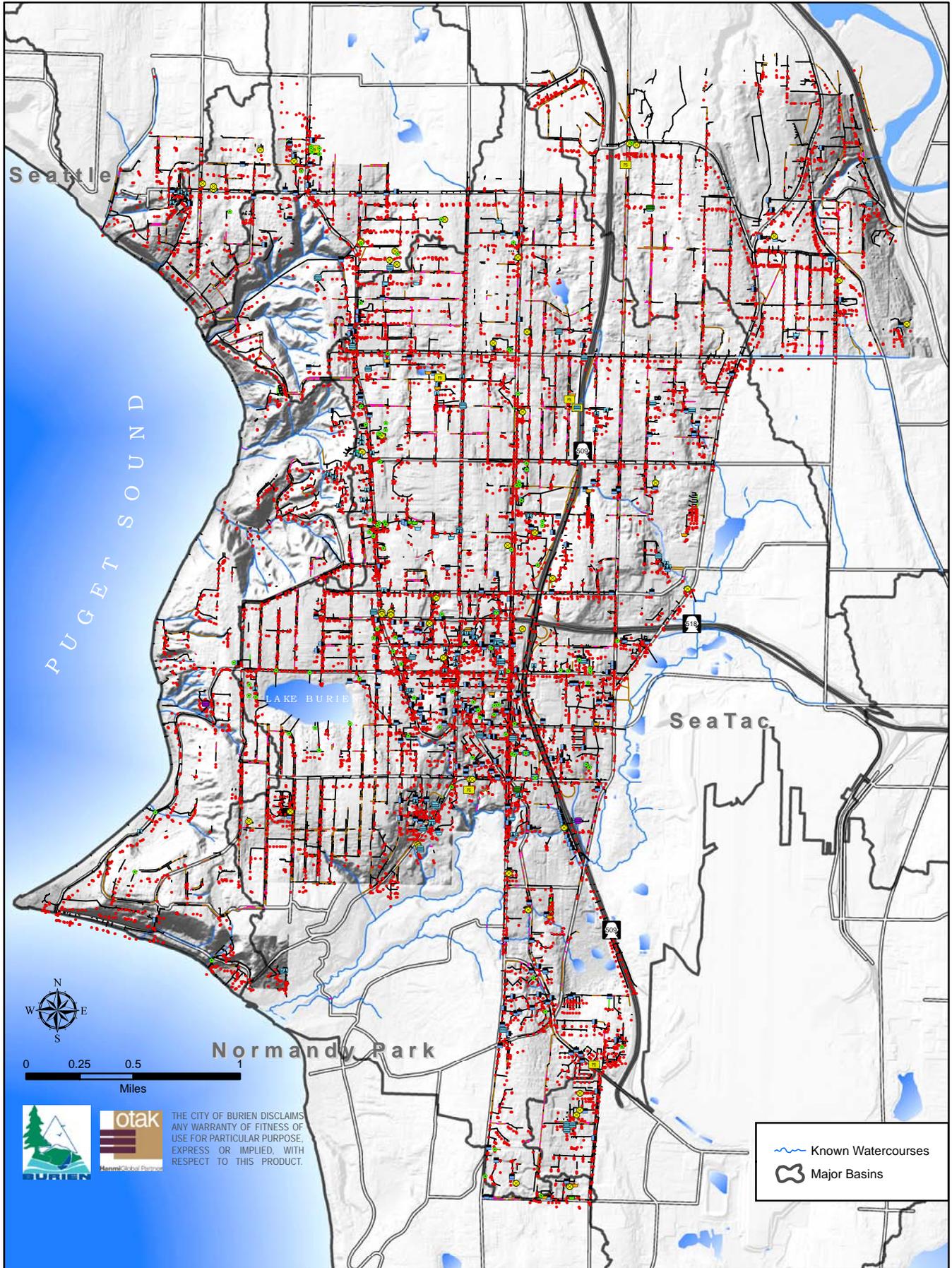
A major component of this SDMP is the development of an updated CIP projects list. The updated CIP includes projects that address flooding, infrastructure and water quality concerns, along with identifying long term stormwater and water quality studies.

Section 4 describes the CIP project development methodologies, including information sources, rating and ranking criteria for drainage concerns and the CIP project development process. This section provides a project description, sketch, and planning level cost estimate in 2012 dollars for the planning, design, permitting and construction of each CIP project. This section also provides a list of small works projects and water resource related studies to support the City's Stormwater Program.

The City's CIP projects will be funded by the City's stormwater utility (See Section 5). The City will also pursue grant funding, as appropriate, for the design and construction of the CIP projects. The City will use their annual budgeting process to update project priorities and select projects for design and construction.

Stormwater System Inventory

Table 4-1 summarizes the stormwater and drainage-related infrastructure in the City of Burien. Information was generated from the City's stormwater inventory and is continually updated as new information comes available. See Figure 4-1 for the City's stormwater system map.



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Table 4-1 Existing Stormwater Inventory*					
Type	Right-Of-Way	Parks	City Owned Property	Private Property	Total in City
Stormwater Ponds	15	-	-	unknown	unknown
Control Structures	66	5	8	213	292
Oil Water Separators	15	0	2	85	102
Water Quality Vaults	1	0	1	1	3
Water Quality Filters	12	1	0	36	49
Catchments (catch basins, yard drains, manholes etc)	5,831	122	22	2,787	8,762
Discharge Points (Outfalls, Infiltration)	72	26	8	114	220
Headwalls/Inlets/Outlets	3,182	40	12	220	3,454
Fittings (Joints, Elbows, etc)	96	16	8	832	952
Pipe (ft)	576,963	14,584	2,638	279,881	874,066
Ditch (ft)	124,150	2,080	648	13,561	140,439
Culvert (ft)	39,277	303	N/A	2,265	41,845
Swale (ft)	1,668	78	561	4,090	6,397
Watercourse (ft)	N/A	20,218	1,327	28,438	49,983
Other Gravity Mains (ft)	262	477	N/A	1,440	2,179

*As of December 30, 2011

Recent Capital Improvement Projects

The City has completed capital improvement projects identified in the 2005 Storm Drainage Master Plan. Table 4-2 provides a brief summary of the recently completed projects. A master list of the current status of the CIP projects from the 2005 plan is included in Appendix 4-1.

Table 4-2 Completed Stormwater Capital Projects from the 2005 Plan	
Project Title	Previously Listed Project Cost
SW 132nd Street Flooding	\$26,000
Century Apartments Drainage Systems	\$205,000
142nd Street Depression (2 Projects)	\$740,000 \$956,000
15th Ave SW Drainage System	\$258,000
S 132nd Street Depression	\$518,000

The City has also funded ongoing small works projects to address small problems that can be solved with simple solutions. These projects are generally designed by City staff and constructed by contractors on the City's Small Works Roster for under \$100,000. City maintenance staff also addresses stormwater infrastructure needs by replacing or adding catch basins, installing asphalt berms to direct stormwater runoff, and re-grading drainage swales and roadside ditches.



CIP Development Process

The CIP development process includes the following four steps:

- Step 1: Problem Identification and Mapping
- Step 2: Categorize Drainage Concerns
- Step 3: Ranking of Potential CIP
- Step 4: Site Visits/Development of Capital Projects

The process of collecting, categorizing, and evaluating complaints is shown in Figure 4-2 with additional details described below.

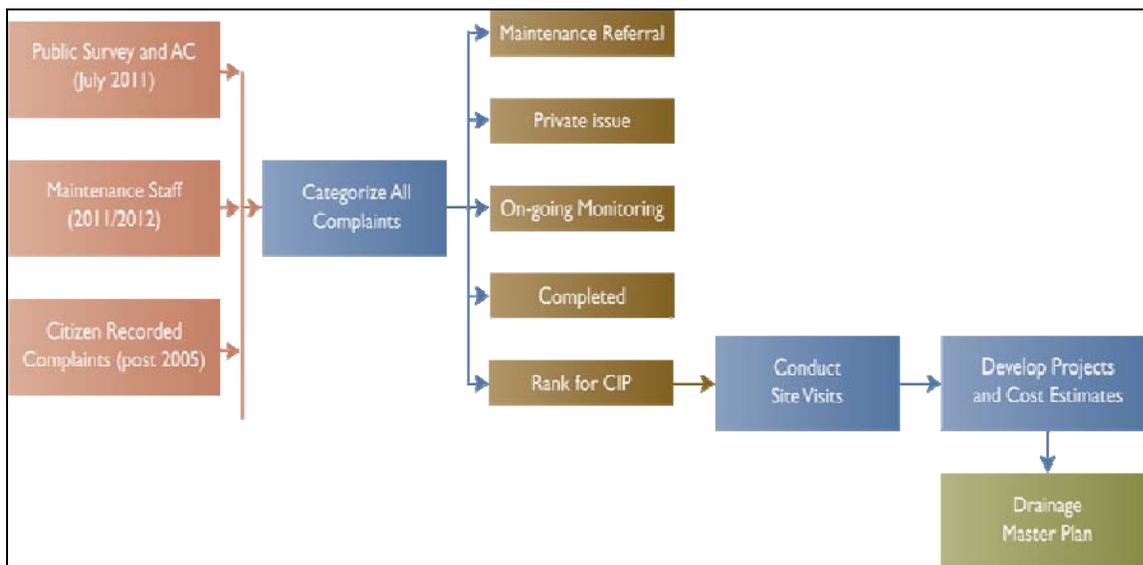


Figure 4-2: CIP Development Process Flow Chart

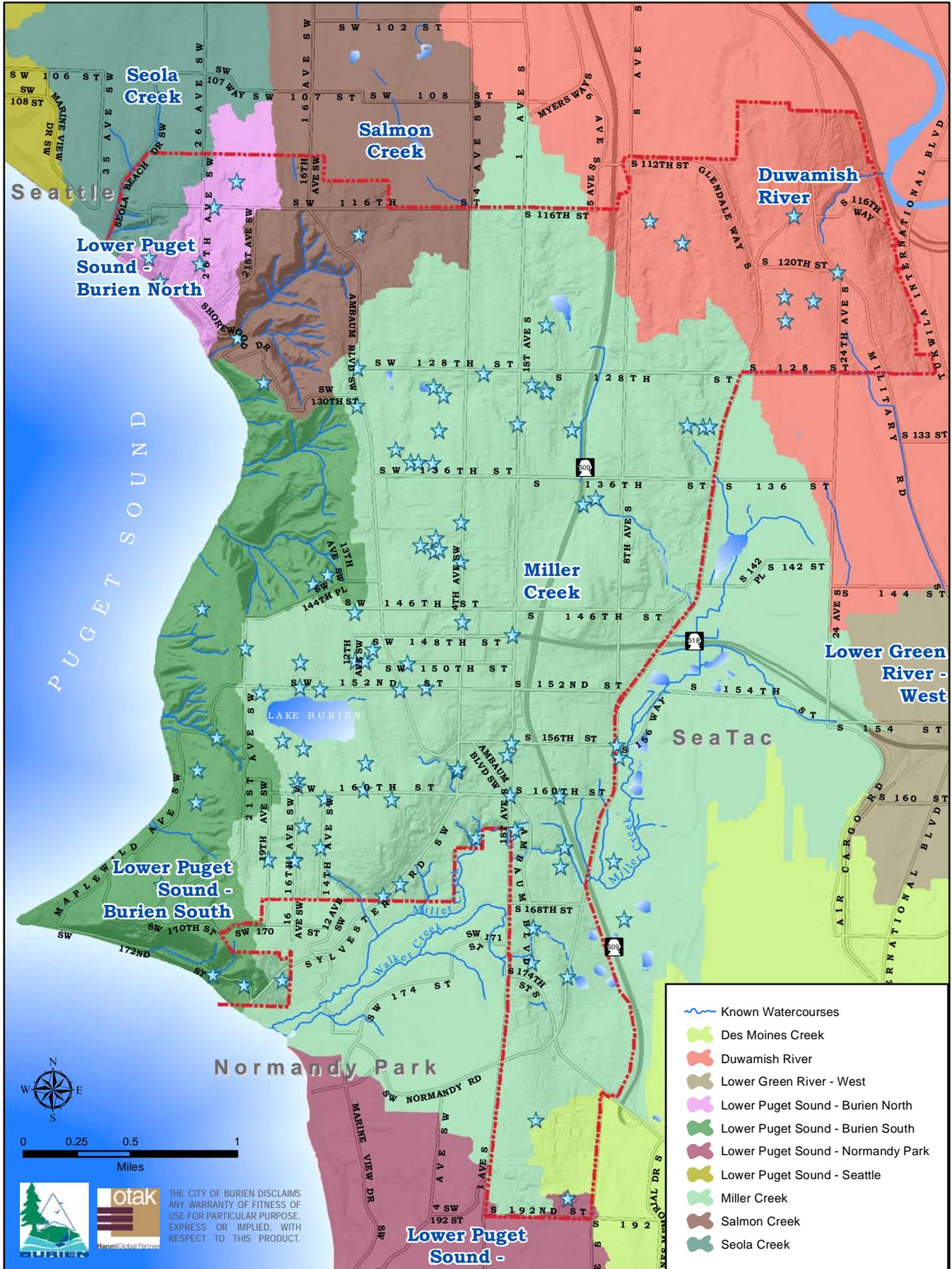
Step 1: Problem Identification and Mapping

The first step in developing the CIP projects was to identify existing drainage concerns and problem areas throughout the City. The data collection resulted in the identification of 131 drainage problems reports located across the City as summarized in Table 4-3. The problem report locations are shown on Figure 4-3 and described in detail in the evaluation matrix presented in Appendix 4-2¹.

Table 4-3 Number of Drainage Problem Reports by Source		
Source of Drainage Problem Reports	Description	Number of Problems*
City Maintenance Staff	In late 2011 and early 20012, City of Burien Maintenance Staff compiled a list of known drainage problems and areas requiring frequent maintenance.	59
Other City Staff	Throughout the CIP evaluation process, City of Burien Public Works Engineering Staff compiled a list of known drainage problems and areas of frequent public complaints. Problem areas were also reported by the Public Works Director and Council members.	10
Advisory Committee Meeting and Public Survey	In July 2011 the Advisory Committee had a meeting and discuss citizen reported drainage problems. The City also posted a drainage survey on the City's website asking Burien residents and business owners for information regarding observed stormwater problems. Citizens were asked to provide the location, a brief description of the problem, frequency, impacts and damages, and public safety concerns. The returned surveys identified a number of localized drainage problems and water quality concerns.	19
Public Citizen Complaints – Recorded by City	The City records public citizen drainage complaints within the City boundaries that are received by phone. All public citizen complaints that were received post 2005 (after development of the last stormwater plan) were added to the complaint database.	66
2005 Plan: CIP Project List	All projects listed in the 2005 Plan that had not been completed by the development of this plan were added to the list of drainage complaints for consideration in the CIP development process.	11

*Note that some complaints had multiple sources. There were a total of 131 complaints recorded.

¹ The City's drainage complaint tracking database is constantly updated with new complaints received from citizens and City staff. The CIP program presented in this SDMP was developed based on the drainage complaint database as of April 30, 2012. Future changes to the database may require adding or removing projects from the City's CIP program plan.



Step 2: Categorizing Drainage Concerns

Problem reports ranged from minor problems due to clogged structures to more serious flooding and water quality to issues that will require additional study, design, and construction. A description of each problem report is included in Appendix 4-2.

After compiling the drainage concerns into a database, developing the location map, and completing the site reconnaissance (at some locations), each drainage concern was categorized based on the possible future action needed to address the issue. The 131 problem reports were categorized as shown in Table 4-4 and Appendix 4-2.

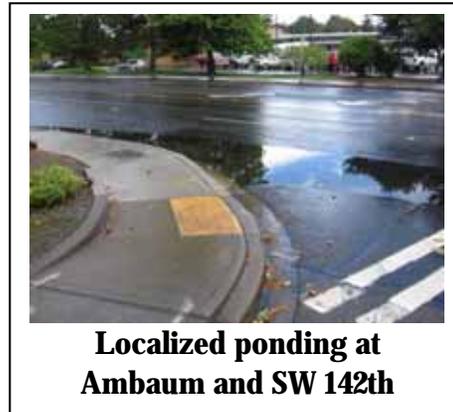


Table 4-4 Summary of Drainage Concern Categorization		
Problem Category	Number of Drainage Concerns	Description
Maintenance Referral	41	Drainage concerns referred to City maintenance staff for further action.
Private Issue	14	Problems originating and impacting private property that should be addressed by private citizens or business owners.
Ongoing Tracking	9	Drainage concerns that are yet to be confirmed by City staff. These areas require future tracking and observation during storm events to determine severity and complexity of the problem.
Completed	31	Drainage concerns that are not surface water related or had previously been addressed by City staff. No further action is required.
Potential Capital Project	36	Drainage concerns that likely require more detailed study and/or a significant construction to address the problem.
Total	130*	

*One Complaint was categorized as “not enough information”

The largest category of drainage concerns were problem areas requiring additional maintenance. These include localized ponding areas that may be caused by debris or sediment accumulation in the existing drainage network. A total of 41 drainage concerns were referred to the maintenance program for further attention. An additional nine concerns were identified as areas that need additional tracking to identify the source or severity of the reported problem.

Thirty-six drainage complaints were categorized as potential future capital projects. Many drainage complaints have related causes and/or solutions, so the 36 evaluated problem reports were grouped into 18 problem areas for further evaluation.



Step 3: Ranking of Potential CIP

The rating/ranking process utilized eight criteria, grouped according to the three major concerns of the City: flood reduction hazard, environmental impacts and community considerations, as shown in Table 4-5. Each of the eight criteria was weighted according to the City local priorities and concerns. Detailed scoring of each problem area is provided in Appendix 4-2.

Step 4: Development of Capital Projects

In the final step of the CIP development, the 18 distinct problem areas were investigated to develop potential capital project solutions. A meeting was held with City staff to review the priority problem areas. Using the experience of staff and their knowledge of the City's drainage infrastructure and reoccurring problem areas, the project team discussed proposed solutions, and selected a preferred project concept for each potential CIP that would address the long term needs of the City's drainage infrastructure at eight of the 18 locations.

Table 4-6 shows the eight new CIP projects, their costs and initial prioritization. Figure 4-4 shows the location of each new CIP project. CIP project sheets and cost estimates are included in Appendix 4-3.

Table 4-5 Ranking Criteria for CIP Projects			
General	Specific	Score Range	Weight
Flood Hazard Reduction	Flood Location	0 = no impact 3 = impacts private property 5 = impacts public streets in terms of traffic, infrastructure and public safety	1.5
	Flood Source	0 = no flooding. 3 = Private Water 5 = Public Water	1.5
	Flood Frequency	0 = flooding only during major (10+-year storm) 3 = flooding on an annual basis 5 = flooding on a monthly basis during rainy season	1
Environmental	Erosion	0 = No erosion 3 = Erosion with no public safety impact 5 = Streambank erosion or hillside erosion with public safety impact	1
	Water Quality	0 = No water quality concerns 3 = minor water quality concerns 5 = measurable water quality concerns	1.5
	Habitat	0 = No habitat impact 3 = Impact of habits of 1 to 2 species 5 = Impacts of 3 or more species	1
Community Considerations	Economic Impact	0 = No economic impacts 3 = Minor economic impacts to public or private property 5 = High economic impacts, such as commercial and high use areas	1
	Complaint History	0 = No related complaints 3 = 1 or 2 related problem reports 5 = more than 3 related problem reports; OR Projects part of past CIP.	1.5
		Total Possible Score	50

Table 4-6 Summary of CIP Projects		
Project Problem Area	Project Title	Cost
CIP 1	Capacity Improvement at 4 th Avenue SW	\$552,000
CIP 2	20 th Avenue SW Drainage Improvements	\$390,000
CIP 3	20 th Avenue S between S 120 th Avenue and S 124 th Street Drainage Improvements	\$441,000
CIP 4	SW 165 th Street between 16 th Avenue SW and 19 th Avenue SW	\$322,000
CIP 5	SW 135 th Street and 6 th Avenue SW Drainage Improvements	\$154,000
CIP 6	SW 152 nd and 8 th Avenue SW Drainage Improvements	\$457,000
CIP 7	25 th Avenue SW Drainage Improvements	\$799,000
CIP 8	4 th Avenue S/Blake Manor Neighborhood Drainage Improvements	\$639,000
	Total	\$3,754,000

Note: The cost opinion is in 2012 dollars and does not include future escalation, financing, or O&M costs.

Concept level projects were developed to address each of the problem areas. Projects include adding and upsizing inlets, replacing damaged pipes, and installing new or retrofitting existing stormwater infrastructure (pipes, ditches, etc.). Project sketches and planning level quantity/cost estimates were developed using available GIS data and information documented during the field visit. More detailed topographic survey will be needed to develop full solutions and construction drawings for each CIP. The cost estimates were developed using average bid item costs from recent construction projects and the engineering judgment and construction experience of the consultant team.

In six additional locations the preferred solution is to conduct a more detailed study to clarify the source or extent of the problem and to develop a more extensive set of solution alternatives. Table 4-7 lists the proposed drainage studies and estimated study costs.

Table 4-7 Summary of Studies		
Study Number	Project Title	Cost
Study 1	Lake Burien System Retrofit	\$250,000
Study 2	NERA Master Drainage Plan	\$350,000
Study 3	Des Moines Memorial Drive and S 175 th Street Sediment Study	\$100,000
Study 4	Hermes and Mayfair Depressions Master Plan	\$200,000
Study 5	142 nd Street Depression Improvements	\$200,000
Study 6	Arbor Lake Water Quality Lake Management Plan	\$150,000
	Total	\$1,200,000

Note: The cost opinion is in 2012 dollars and does not include future escalation, financing, or O&M costs.

Small works projects are projects that can be within the design capabilities of City Engineering staff and constructed by City Maintenance staff or contractors from the City's Small Works Roster. Small Works projects have straightforward design solutions (no specialized analysis required) and an estimated construction cost of under \$100,000 per project. The list of current small works projects is included in Table 4-8. The City's small work project list is expected to expand as additional drainage complaints are received, categorized, and ranked according to the criteria presented in the SDMP.

Table 4-8 Summary of Small Works Projects		
Small Works Project Number	Project Title	Cost
Small Works Project 1	Ambaum Blvd SW/SW 120 th Block Drainage Improvements	\$100,000 per year
Small Works Project 2	Occidental Ave S Drainage Improvements	
Small Works Project 3	Eagle Landing Park/25 th Avenue SW Drainage Improvements	
Small Works Project 4	116 th Avenue SW between 1 st Avenue and 4 th Avenue SW at Church Drainage Improvements	

Note: The cost opinion is in 2012 dollars and does not include future escalation, financing, or O&M costs.

Miller and Walker Creek Basin Plan Projects

The CIP Development process also included a review of the 2006 Miller and Walker Creek Basin Plan to identify additional projects related to the City's Stormwater Program. The Miller/ Walker Creek Basin Plan was published in collaboration with King County, WSDOT, Port of Seattle, Seatac, Burien and Normandy Park. This report outlined five major capital projects within the City of Burien (Note: all costs listed are in 2006 dollars):

- Hermes Intake Line – Water Quality Project ; Cost Dependent on Type of Treatment
- Seattle City Light Property Detention and Water Quality Treatment Facility – 12 acre-feet Detention Pond; \$1.2 Million
- Ambaum Regional Detention Facility – 12.5 acre-feet Detention Pond; \$1.4 Million
- Miller Creek Concrete Weirs – Weirs installed in Miller Creek Downstream of 1st Avenue South; \$350,000
- Walker Creek Headwater Purchase – Property Purchase; \$50,000 for protection activities; ~\$425,000 for property purchase

The Ambaum Regional Detention Facility was expanded by 7.4 acre-feet with funding from the City, WSDOT, and a State grant. The other projects in the Miller Walker Creek Basin Plan will be evaluated as part of the City's renewed focus on basin planning and watershed studies. The City will continue to evaluate the needs within the Miller and Walker Creek Basins and has allocated funding for two studies to identify short and long term project needs (Study 1 and Study 2 in Table 4-7).

Infrastructure Replacement Fund

The vast majority of the City's drainage infrastructure was constructed prior to incorporation and was previously managed and maintained by King County. Drainage system infrastructure typically has a 50-100 year design life. Based on the age of the surrounding neighborhoods, design life is a concern for large portions of the City's drainage system. The City has an ongoing program to replace existing pipes in coordination with roadway construction. However, with over 130 miles of publically owned pipes and culverts, the cost to replace just one percent of the system is approximately \$350,000. This assumes that pipe replacement occurs concurrent with other roadway improvement projects, so that design and construction management costs can be absorbed into the larger project.



**Capital Repair at 6th Avenue
SW and SW 122nd**

The CIP program includes establishing an Infrastructure Replacement Fund. The Stormwater Program will transfer approximately \$350,000 per year into the Infrastructure Replacement Fund, so that funding can accumulate to upgrade existing stormwater infrastructure during future roadway improvement projects. Money from the Infrastructure Replacement Fund will then be used to construct the stormwater-related aspects of each project.

The infrastructure replacement fund may also be used to develop hydraulic models of the City's existing drainage infrastructure in order to prioritize system replacement in areas that require additional capacity.

Capital Program Funding

Historically, the City's CIP projects have been funded by the City's stormwater utility and grants for specific projects. The amount of funding provided for stormwater-related capital projects varies from year to year, depending on the program revenue, activities, and priorities. In 2011, the City transferred \$830,000 to pay for capital projects from the stormwater utility fund.

The capital program proposed in this plan includes CIP Projects, Water Resource Related Studies, Small Works Projects, and the Infrastructure Replacement Fund. The proposed program is expected to require between \$1.1M and \$1.3M on an annual basis. The City will use the annual budgeting process to update priorities and select projects for design, construction or long term planning. The City will continue to pursue grant opportunities to accelerate the rate of construction for stormwater related capital projects.



City of Burien Storm Drainage Master Plan Section 5: Watershed Enhancement Program

Background

The City is dedicated to protecting watershed health and enhancing water quality and natural resources. In compliance with NPDES Phase II Permit requirements, the City has developed an education and outreach program focused on educating residents and business owners about their impact on the health of the watershed.

During the development of the SDMP, the City worked with residents to form a Stormwater Advisory Committee to inform the priorities and activities proposed in this SDMP. The Advisory Committee provided critical information related to drainage problem areas throughout the City. During an April 2012 Advisory Committee meeting, citizens also identified a need for the City to increase messaging and outreach to residents, businesses, and other citizen groups related to watershed health and water quality protection. In response to this meeting, the City is developing a Watershed Enhancement Program. This program builds upon the Public Outreach and Education requirements in the NPDES Phase II Permit and expands the City's efforts to promote individual action and responsibility related to water quality protection. Through the Watershed Enhancement Program, the City is joining efforts with local organizations and citizens to improve the health of the streams and natural habitats.

Program Focus and Messages

Based on discussions with the Advisory Committee and the Miller/Walker Creek Basin Steward, the City has identified some key messages and focal points for the Watershed Enhancement Program. In general, the program messages will focus on reducing or eliminating pollutants at the source and source control activities to prevent pollutants from reaching natural systems. Some examples of these messages include:

- Encouraging residents to “Know Your Watershed” and understand what basin their property is part of.



- Reducing pollutant discharge to natural systems through focused landscaping practices such as limiting use of chemicals, proper fertilizer application when necessary, using natural techniques for weed control, and retaining trees and natural vegetation.
- Reducing stormwater runoff and pollutants by replacing developed surfaces (impervious areas or managed lawn) with pervious surface and/or native plantings.
- Promoting pet waste clean-up through messaging and installation of pet waste stations in parks and along shorelines.
- Encouraging residents to inspect side sewers for decaying pipes.
- Providing car wash kits to charity groups.
- Extending car wash education to Fire Stations and other municipal groups that maintain fleets of vehicles.
- Education and Inspections to automotive businesses to identify potential pollutant sources and identify source control techniques to reduce the potential for spills or illicit discharges to the stormwater system.
- Promoting Low Impact Development and Green Stormwater Infrastructure among the planning, development, engineering, and contractor communities.

Target Audiences and Methodology

Changing individual behaviors requires focused messaging at target groups. It often takes multiple “touches” for a message to resonate with the target audience. Additional messaging is generally required to enact a concrete change in behavior. The Watershed Enhancement Program will utilize a variety of media and methods to reach target audiences.

The City will consider the following methods for promoting messages about individual responsibility for watershed health:

- Working with local nurseries and plant distributors to encourage native planting, and natural landscaping materials. Messaging should focus on the cost effectiveness and time saving advantages of natural landscaping materials.
- Developing Brochures and “leave behind” materials. Locations for media displays may include City Hall, the Community Center, Library, Festivals, and Farmer’s Markets.
- Including water quality messaging and related articles in the City Newsletter.
- Developing pilot projects to install rain gardens, bioinfiltration swales, and other green stormwater infrastructure facilities. Pilot projects become hands-on learning tools for the development and contractor communities and also provide an opportunity for residents to increase their understanding of the system aesthetics and function.
- Working with citizen groups to hold a Native Garden Tour of local residences and public projects that have utilized native plants and other “green” approaches.

- Partnering with schools or other local groups to provide watershed-based education opportunities to school-aged children.
- Business outreach program to educate local businesses about their water quality impact and potential to reduce the discharge of pollutants into the watershed. Messaging can focus on illicit discharge, source control, runoff control and/or landscaping practices.

Partnerships

The City of Burien currently partners with King County, Normandy Park, SeaTac, and the Port of Seattle to fund the Miller/Walker Creek Basin Steward through King County. Funding a Basin Steward position was recommended in the *Miller and Walker Creeks Basin Plan*. The City of Burien's participation in the Basin Stewardship program is a key element of the Watershed Enhancement Program. The Basin Steward serves as a single point of contact for activities and information related to the basin. In addition, the Basin Steward provides educational materials on pet waste, native vegetation, controlling invasive weeds, storm drain protection, conserving water, household hazardous waste disposal, and Low Impact Development. The Basin Stewardship Program also coordinates volunteer efforts for local stream restoration and tree planting projects, conducts monitoring programs, arranges presentations to school and community groups, and responds to reports of fish sightings, and non-emergency problems in local creeks.



The Watershed Enhancement Program will evaluate opportunities to partner with the following additional agencies and organizations:

- Local Businesses
- Sustainable/Ecological Non-Profit Groups (Sustainable Burien)
- Neighborhood Groups
- Sewer Districts/Other Utility Providers
- Highline School District and/or Highline Schools Foundation

Low Impact Development

The Watershed Enhancement Program is also focused on promoting Low Impact Development (LID) and Green Stormwater Infrastructure approaches to manage stormwater runoff and improve watershed health. Using LID techniques for surface water management on new developments and capital improvement projects is a way to improve water quality in a manner that more closely mimics flow characteristics from natural forested conditions. LID has been emerging over the past several years as a new way of managing stormwater runoff. The goal of LID is twofold: 1) capture pollutants in stormwater prior to discharging to a lake or stream (usually through settling and filtration); and 2) reduce peak flows that are caused by converting land from forest to buildings, streets and parking lots (via detention/storage and or infiltration in an LID facility). A reduction in peak flows helps prevent erosion of stream channels and destruction of aquatic habitat.



In 2008 the City published a study titled “City of Burien Low Impact Development Implementation Framework” with the purpose of providing direction for developing a programmatic implementation plan and LID barriers analysis. The programmatic implementation framework for implementing successful LID outlined in the report included:

- Remove Barriers
- Provide Tools
- Provide Examples
- Promote Application of LID
- Educate the Public
- Fund Improvements
- Adapt

The City’s has adopted the 2009 KCSWDM, which requires the City to implement LID techniques (called Flow Control BMPs) on projects for both flow control and water quality on projects where appropriate. As described in Section 3, the next NPDES Permit will also require the City to review and update the development code to remove barriers from the use of low impact techniques in site planning and stormwater management.

The City has an active citizen base, including Sustainable Burien, a group whose mission is to educate, promote and participate in the creation of a sustainable community in Burien, including removal of invasive plant species in the stream corridors. Residents have also been

active in promoting the use of LID stormwater techniques in the Lake Burien basin through activism with Ecology and City Staff.

Operations and Capital Program

In addition to the Watershed Enhancement strategies described in this section, the City's stormwater program operations and capital programs are focused on promoting watershed health. The program operations described in Section 3 are designed to protect and improve water quality under the Federal Clean Water Act. Specific program activities include:

- Public education and outreach efforts focused on proper car wash methodology as well as the distribution of car wash kits to protect water quality during charity car wash events.
- Illicit discharge screenings and investigations to identify sources of pollution entering the public stormwater system.
- Water quality audit program to evaluate local business practices with respect to water quality impacts.
- Ongoing development review to ensure that proposed development and redevelopment activities are in compliance with the stormwater management standards to reduce runoff and protect water quality.
- Inspection of stormwater management facilities to identify maintenance concerns.
- Ongoing maintenance program to keep stormwater management facilities in proper working order and to remove sediment and pollutants accumulated in catch basins.
- Participation in regional watershed planning efforts.

The City's capital project program also includes specific water quality enhancement projects, as well as watershed based studies to identify additional opportunities to upgrade or retrofit the existing public infrastructure to promote watershed health. Through the Watershed Enhancement Program, the City is joining efforts with local organizations and citizens to improve the health of the streams and natural habitats.

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City of Burien

Storm Drainage Master Plan

Section 6: Summary and Recommendations

Overview

The purpose of this study was to identify the future needs of the City’s stormwater program including documenting areas where drainage and water quality can be improved, updating the CIP project list and identifying the actions and staff demands for both the current and future regulatory requirements. This SDMP outlines programmatic, operational, and capital construction activities to guide the City’s Stormwater Program over the next five to ten years.

Recommended Program

Table 6-1 summarizes the City’s recommended annual stormwater program. The recommendations are based on the analyses presented in the program analysis in Section 3 and the capital improvement program in Section 4 as well as the priorities identified through the advisory committee process described in Chapter 5. Stormwater Program costs assume full implementation of the new NPDES Phase II Municipal Permit that will begin in 2013.

Table 6-1 Recommended Annual Stormwater Program		
Stormwater Program Element	Average Annual Cost (2012 Dollars)	Notes
SWM Program (NPDES Compliance and Maintenance)	\$2,024,000	Adds 2.5 FTE to meet future NPDES Permit requirements. Shifts inspection responsibility to City staff. Funds contribution for equipment and maintenance shop.
CIP Projects	\$450,000	Constructs 8-10 projects over 10-year period. Additional projects identified through watershed studies.
Watershed Studies	\$200,000	Funds one study/year for next 3-5 years. Shift funding to CIP Projects in later years.
Small Works Projects	\$100,000	Assumes ongoing program.
Infrastructure Replacement Fund	\$350,000	Annual transfer to support long term replacement and upgrade program.
Annual Program Total	\$3,124,000	

The City's Stormwater Program is driven by activities required by the NPDES Phase II Permit. This SDMP identified program cost savings and program efficiencies to reduce the cost of NPDES Permit compliance (i.e. combining IDDE and maintenance inspections, transferring activities from contractors to City staff). However, required activities still constitute approximately 65 percent of the total recommended Stormwater Program budget.

The remaining budget funds infrastructure-related enhancement projects, including CIPs, Watershed Studies, Small Works Projects, and the Infrastructure Replacement Fund. It is recommended that the City establish a set transfer from the stormwater utility to the stormwater capital construction fund. Spending from the capital construction fund will then vary annually based on the City's priorities, which are set by Council and the Public Works Director.

Stormwater Program Funding

Historically, the City's Stormwater Program has been funded by the City's stormwater utility and grants for specific activities and projects. The 2012 Stormwater Utility revenue is expected to be \$2,508,000. As program costs increase, additional funding will be needed to implement required regulatory programmatic activities, implement administrative needs of the program, maintain existing infrastructure, and construct capital projects to address drainage and water quality problem areas. The City will use this SDMP as the basis to evaluate Stormwater Program funding sources, update program priorities, and select projects for design, construction or additional study. The City will continue to pursue grant opportunities to enhance operations and accelerate the rate of construction for stormwater related capital projects.



City of Burien
Storm Drainage Master Plan
Section 7: References

References

2011-2012 Adopted Budget, For the biennium January 1 2011 through December 31, 2012. City of Burien.

Arbor Lake Water Quality

<http://www.kingcounty.gov/environment/watersheds/central-puget-sound/miller-walker-creeks/stream-blog-2012/stream-blog-2010.aspx>

Burien Stormwater Program Webpage

<http://burienwa.gov/index.aspx?NID=184>

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City of Burien Low Impact Development Implementation Framework. CH2MHill. April 2008.

DRAFT Western Washington Phase II Municipal Stormwater General Permit. Washington State Department of Ecology.

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<http://your.kingcounty.gov/dnrp/wlr/water-resources/small-lakes/data/lakepage.aspx?SiteID=43>

Miller and Walker Creeks Basin Plan. King County and others. February 2006.

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<http://www.kingcounty.gov/environment/watersheds/central-puget-sound/miller-walker-creeks.aspx>

King County Surface Water Design Manual. King County. 2009

Western Washington Phase II Municipal Stormwater Permit. Washington State Department of Ecology. January 17, 2007, Modified June 17, 2009.

Stormwater Management Manual for Western Washington. Department of Ecology. 2005.

Appendix I-1: Stormwater Element of
the City's Comprehensive Plan (2009)

2.8 STORM WATER ELEMENT

Goal ST.1

Manage stormwater runoff in such a manner as to:

- *protect steep slopes, streams, wetlands and shorelines from erosion and sedimentation to avoid the degradation of environmental quality, wildlife habitat, and natural system aesthetics;*
- *preserve, protect, and restore natural habitat critical for the conservation of salmonid species listed under the federal ESA;*
- *protect the quality of surface water and groundwater;*
- *provide recharge of groundwater where appropriate; and*
- *ensure natural control mechanisms are preferred, where appropriate.*

Managing Stormwater (General)

Pol. ST 1.1 The City shall separately adopt a detailed Storm Drainage Master Plan to implement these stormwater policies based on this comprehensive plan. This plan shall:

- a. Provide a plan of drainage improvements and regulatory actions that will reduce or eliminate local erosion, landslide and flooding problems in Burien, thereby protecting existing and future development and property values;
- b. Provide protection from erosion, landslides and flooding in the Puget Sound basins where perennial and seasonal streams exist, and also protect these streams from the impacts of urban runoff;
- c. Provide for the long-term protection and restoration of Miller Creek Basin as a viable fish habitat and a natural amenity for the urban area. Require higher detention and water quality standards for development within this basin because it supports a federally listed species.
- d. Provide long-term protection and restoration of Salmon Creek Basin, as a viable fish habitat and a natural amenity for the urban area. Require higher detention and water quality standards for development within this basin because it supports a federally listed species.

Note: Policy numbers may not be consecutive. Through the Comprehensive Plan amendment process, some policies have been deleted from this chapter while existing policy numbers have retained their original sequence. Information on past Comprehensive Plan amendments is available at the City of Burien Community Development Department.

- e. Encourage developers to incorporate into site planning various environmentally sensitive approaches to stormwater management, including low-impact development techniques, and preservation and restoration of natural landforms.
- Pol. ST 1.2 The City should encourage regional approaches to managing stormwater to provide improved performance, maintenance and cost efficiency. Land should be acquired that is adequate for the development of regional detention and water quality facilities.
- Pol. ST 1.3 Wherever possible, stormwater facilities should be considered as a multi-functional community resource which provides other public benefits such as recreational, habitat, cultural, educational, open space and aesthetic opportunities.
- Pol. ST 1.4 Stormwater retention/detention facilities may be allowed to be used as partial fulfillment of open space requirements, where the facility provides significant recreation and open space amenities. In determining the degree to which this is allowed, consideration shall be given to the nature of the development. Where the development is non-residential, a greater percentage may be allowed for fulfillment. Commercial development shall make retention/detention facilities part of a more extensive landscaping. These facilities should be designed as an amenity, particularly in commercial developments, and to ensure the safety of its users.
- Pol. ST 1.5 A watershed approach should be taken to surface water management, with responsibility shared among the City and other contributing jurisdictions. This approach should emphasize:
- a. Prevention of water quality degradation through implementation of Best Management Practices and educational programs to reduce pollution entering surface waters;
 - b. Reduction of volumes and duration of urban flows to prevent flooding and erosion;
 - c. Cost sharing;
 - d. Consistency with the City's risk management practices; and
 - e. Maintenance and restoration of stream habitat for habitat preservation and enhancement.
 - f. Coordinated, knowledge based management decisions.

Protecting Natural Drainage Systems

- Pol. ST 1.6 Development shall be designed and constructed to minimize disruption and/or degradation of natural drainage systems and the habitat they provide, both during and after construction. Development design which minimizes impervious surfaces through the use of appropriate low-impact development techniques, such as by limiting site coverage and maximizing the exposure of natural surfaces for the infiltration of water shall be required.
- Pol. ST 1.7 Stormwater shall be detained and infiltrated on-site where possible. If on-site detention and infiltration is not possible, stormwater shall be detained so that the release rate is equal to or less than predevelopment or natural conditions. Any release must be to an approved drainage system, either natural or constructed, as approved by the City.
- Pol. ST 1.8 As part of its review process, the City shall consider the impacts of stormwater runoff from new development on the City's natural drainage systems, and require any appropriate mitigating measures. When redevelopment occurs, and the amount of impervious surface increases, the City shall require existing development to be retrofitted with stormwater management facilities. Criteria for implementing this policy should also be developed using a threshold approach patterned after SEPA requirements.
- Pol. ST 1.9 The City shall require development to provide off-site improvements necessary to avoid adverse downstream impacts.

Protecting Water Quality

- Pol. ST 1.10 In the interest of the residents of Burien, the Puget Sound area and adjoining communities, the City will protect the quality of surface water bodies that are located within drainage basins of the City.
- Pol. ST 1.11 The City will encourage all City residents and require businesses to implement Best Management Practices to prevent erosion and sedimentation from occurring, and to prevent pollutants from entering ground or surface waters to maintain natural aquatic communities and beneficial uses.
- Pol. ST 1.12 The City shall establish enforcement mechanisms that may be used to prevent or stop contamination to surface water quality, as well as to implement all City stormwater policies. Enforcement mechanisms should address surface water contamination, including surface water flows. Through intergovernmental coordination, the city will seek similar

enforcement mechanisms for all waters through or into the City from up to five miles from its corporate limit.

Discussion: The City currently does not have an adopted water quality ordinance.

Pol. ST 1.13 The City shall incorporate facilities such as detention ponds, bioswales, wetlands, and other natural drainage facilities to improve the water quality of surface water runoff from existing and new roadway improvements.

Providing Groundwater Recharge

Pol. ST 1.14 Where infiltration will not adversely effect down gradient properties, infiltration of stormwater is preferred over surface discharge to a natural stream system. The return of precipitation to the soil at natural rates near where it falls should be encouraged through the use of infiltration mechanisms, including but not limited to well designed open drainage systems, infiltration ponds, detention ponds and grass lined swales.

Pol. ST 1.15 The City should use Geographic Information Systems (GIS) and other analysis tools to assist in determining appropriate locations for implementation of low impact development techniques that are complementary to their respective geographic context. The resulting analysis (document/map) should be made available to the public to increase education and awareness of best storm water management practices. (Amended, Ord. 497, 2008)

Goal ST.2

Ensure that standards used for the design and development of stormwater drainage systems reflect and support the character of adjacent development and the stormwater, land use, and environmental protection goals of the City.

Pol. ST 2.1 Appropriate stormwater management practices shall be employed to prevent stormwater problems from urban runoff, which may include flooding, erosion, or stream channel scouring in natural drainage systems. These practices at a minimum should include the collection, control and treatment of storm water runoff at a rate and quantity that will prevent damage to both man-made and natural drainage systems. One or a combination of the following three approaches can be used to managed excessive storm water runoff:

- a. Collect, control, and treat stormwater runoff to a level that will prevent damage to the natural drainage system and restore the ability of the natural drainage system to function as a productive biosystem; and/or

- b. Remove excessive stormwater runoff from the natural drainage system by artificial means such as bypass systems in accordance with SEPA or other adopted plans, regulations or regional programs.
- c. Repair/retrofit private storm drainage lines that route City stormwater to prevent damage to both man-made and natural drainage systems.

Pol. ST 2.2 The following guidelines shall be used to develop stormwater quantity and quality standards within the City:

- a. *Multifamily and Moderate Density Single Family Neighborhoods:* The City shall require new development, as well as redevelopment projects involving external construction that may have drainage implications, to comply with full urban stormwater drainage standards. Seek to implement stormwater management, including low-impact development standards, which require all development proposals to establish systems, preferably natural, for filtering the “first flush” (delivery of disproportionately large amounts of pollutants which occur during the early stages of the storm) of urban runoff near its source. The standards should also address maximum impervious lot coverage. Where appropriate, the Director of Public Works may modify these standards but only to the extent that runoff quantity and quality levels are maintained.
- b. *Commercial and Industrial Areas:* The City shall require new development, as well as redevelopment projects involving external construction that may have drainage implications, to comply with full urban stormwater drainage standards, as described above.
- c. *Low Density Single Family Neighborhoods:* The City shall allow low-impact development techniques that are appropriately designed to match the character of adjacent land uses, such as allowing well designed, open drainage systems which increase the amount of infiltration of rainfall as it occurs, as opposed to gutters and pipes which do not provide infiltration. (Facilities on arterials in these areas may require full urban stormwater drainage standards.)
- d. *Low and Moderate Density Single Family Neighborhoods located in landslide hazard areas, on steep slopes, or in erosion hazard areas (as defined in the City’s Environmentally Sensitive Areas Ordinance), or in areas with existing or potential drainage problems:* The City shall require new development, as well as redevelopment projects involving external construction that may have adverse impacts on the stormwater drainage system, to comply with stormwater drainage standards that include on-site drainage

controls. (Facilities on arterials in these areas may require full urban stormwater drainage standards.)

- Pol. ST 2.3. The City shall develop and adopt regulations to supplement the adopted King County Surface Water Design Manual to ensure that any clearing, grading or the addition of impervious area in steep slopes or landslide hazard areas (or projects that drain or discharge into such areas) be reviewed for drainage implications and regulated accordingly.
- Pol. ST 2.4 Design and construction standards for development should address rate of discharge, water quality, method and point of discharge, and method of storm drainage control.
- Pol. ST 2.5 Design and construction standards for development should require the use of temporary erosion and sedimentation control measures that minimize the transport of sediment to drainage facilities, water resources, and adjacent properties.
- Pol. ST 2.6 Stormwater conveyance systems for proposed projects must be analyzed, designed and constructed to accommodate stormwater runoff originating off-site that are conveyed onto the project site, as well as runoff from the project itself. Encourage the use of semi-pervious or pervious surfaces, and other low-impact development techniques to ensure that stormwater discharge from the site occurs at the natural location.
- Pol. ST 2.7 The City shall enact ordinances and review development and redevelopment proposals in a manner which controls the duration and discharge of storm water from new development. At a minimum, peak discharge shall not exceed the rate of the predevelopment or natural conditions.
- Pol. ST 2.8 Maintenance of all drainage facilities constructed or modified by a proposed project becomes the responsibility of the property owner. The City of Burien may assume maintenance of all approved drainage facilities constructed for formal plat subdivisions, planned unit developments, and short plat subdivisions two years after construction approval and upon assurance that they are in working order.
- Pol. ST 2.9 The City shall not convert any pervious residential driveways to impervious surfaces following completion of a stormwater improvement or capital improvement project, unless the residential driveway was impervious prior to the commencement of the project.
- Pol. ST 2.10 Increase the overall coverage of tree canopies and other vegetation in the City by encouraging new site development and retrofit plans to include provisions for the addition or preservation of trees and vegetation.

- Pol. ST 2.11 Implement public educational programs encouraging homeowners to use development modifications to reduce stormwater impacts. The program should distribute materials to the community or conduct outreach activities about the impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.
- Pol. ST 2.12 The public shall be involved in creating, implementing, and updating the storm/surface water management program. Municipalities should make efforts to reach out and engage all economic and ethnic groups.
- Pol. ST 2.13 The City shall enforce a program to detect and eliminate illicit discharges into the city's stormwater system, including illegal dumping to the system.
- Pol. ST 2.14 Develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

Goal ST.3

Minimize the risk to property and residents from flooding hazards.

- Pol. ST 3.1 Flood prone properties outside of the floodway are developable provided that such development can meet the standards set forth in the federal flood insurance program.

Discussion: The general location of areas within the 100-year floodplain is depicted on the City's environmentally sensitive areas map.

- Pol. ST 3.2 Site plan review shall be required under SEPA for all development in the flood plain, including single family development, short plats and redevelopment. Appropriate mitigating measures shall be required whenever needed to reduce potential hazards.
- Pol. ST 3.3 Any development within the floodway, which would reduce the capacity of the floodway or create risks to property, shall be prohibited.

Appendix 3-1: New Draft NPDES
Phase II Permit Review Memo

Technical Memorandum



10230 NE Points Drive
Suite 400
Kirkland, WA 98033
Phone (425) 822-4446
Fax (425) 827-9577

To: Heungkook Lim, PE, City of Burien Surface
Water Management Engineer
From: Jessica Christofferson, EIT
Copies:
Date: December 23, 2011
Subject: New Draft NPDES Phase II Permit Review
Project No.: 31760

The purpose of this memo is to summarize the major changes between the current NPDES Phase II Permit and the draft NPDES Phase II Permit published in October of 2011.

Summary Overview of New Activities and Changes in the Permit

- Additional public education and outreach activities must include new target audiences and education on LID.
- Annual Reports must be posted by May 31 each year.
- Stormwater Mapping must include: treatment/flow control BMPs, land use for all drainage areas draining to a 24-inch storm line.
- Changes to the IDDE program requirements: allowable discharges (Spa and Hot Tub Discharges with temperature controls), IDDE compliance strategy, updated IDDE ordinance (if applicable), IDDE Program implementation and procedures, IDDE response/follow up timeline.
- The City's site planning process, BMP selection and design criteria must meet the 2012 Ecology Manual requirements OR a program approved by Ecology under the Phase I Permit. The one acre threshold was eliminated; thresholds include replaced hard surfaces; Onsite Stormwater Management (LID) standards (see Appendix 1).
- Increased inspection frequency of all new treatment/flow control and BMPs (every 6 months until 90% of lots are constructed) and catch basin in permanent residential developments. Increased inspection compliance (conducting at least 80% of scheduled inspections).
- Requiring all codes, rules, standards and other enforceable documents must REQUIRE LID principles/BMPs. LID may not be required if the site is unsuitable, then an LID feasibility analysis is required to document code exemption.
- Watershed-scale stormwater planning: The City must select a watershed selected by a Phase I County for watershed-scale stormwater planning to participate in. IF the County selects a watershed that the city is located in, then the city must participate in the watershed planning process.

- Maintenance standards must meet 2012 Ecology Manual standards.
- Increased spot checks (conduct after all major storms), catch basin inspection frequency (every 2 years) and cleaning of the conveyance system.
- Pay-in option or conduct in-house option for: Status and Trends Monitoring, Effectiveness Studies, and Source Identification and Diagnostic Monitoring Information Repository. Pay-in costs for Burien total \$31,698 annually.
- Annual reports must be submitted using Ecology's WA WebDMR program and include attachments to support work completed during the reporting period.
- There are no TMDLs applicable to the City of Burien.
- In Appendix 1, the one acre threshold was eliminated from the "regulatory threshold" triggering the regulations to be applied to new development, redevelopment and construction site activities. All minimum requirements apply to projects of 5,000 sqft or greater or new PLUS REPLACED HARD surface area. All minimum requirements apply to projects that convert 3/4 acres or more of vegetation (native vegetation has been eliminated) to lawn or landscaped areas or convert 2.5 acres or more of vegetation to pasture. Minimum requirements #1 - #5 apply to projects that result in 2,000 sqft or greater of new plus replaced HARD surface area. All new development and redevelopment projects regardless of size must comply with minimum requirement #2.
- Appendix 1: Note that the elimination of the 1 acre threshold might not be significant depending on the City's current code. The current permit allowed Phase II jurisdictions to only regulate projects over 1 acre, unless they were already regulating lower – anti-backsliding. This change will depend on how the current code is written.
- In Appendix 1, the other major change is the LID performance standard. If the jurisdiction is currently using the King County Manual, they may already be requiring "flow control BMPs", which "onsite stormwater management measures". A change is that the City may be required to do more from the mandatory list and/or meet the performance standard.

Detailed Summary on New Activities and Changes in the Permit

Below is a summary of the new activities and changes in the Permit by major element.

Public Education and Outreach

- Focus education and outreach efforts on prioritized target audience, including school aged children.
- General public, business education program should include the subject area for BMPs for equipment maintenance.
- Homeowners, landscapers, and property managers' education program should include LID principles and BMPs, Stormwater facility maintenance and dumpster maintenance for property owners.
- Create a stewardship opportunities and/or build on existing organizations to encourage residents to participate in activities.

- Public education requirements for measuring behaviors and implementing programs can be done locally or as a member of a regional group.

Public Involvement and Participation

- Ongoing opportunities for public involvement and participation shall include public hearings.
- The annual report must be posted on the jurisdiction's website no later than May 31 each year.

IDDE

- Stormwater treatment and flow control BMPs/facilities must be mapped. The City may rely on permanent stormwater control plans for mapping of LID BMPs.
- Land use must be mapped for all drainage areas going to a 24-inch diameter conveyance line.
- New conditionally allowable discharge: Spa and Hot Tub Discharges. All discharges shall be thermally controlled to prevent an increase in temperature of the receiving waters.
- The City's IDDE compliance strategy should include the applicable of operational and/or structural source control BMPs for pollutant generating sources associated with existing land uses and activities. The strategy shall also include maintenance of permanent stormwater treatment facilities and catch basins.
- Update IDDE ordinance as needed to meet new requirements.
- IDDE Program implementation and procedures: 1) Develop procedures for conducting investigations for the purpose of detecting illicit discharges and illicit connections (include field screenings and methods of identifying potential sources). 2) Implement a field screening methodology appropriate to the characteristics of the water quality concern. 3) Prioritize conveyances and outfalls and complete field screening for at least 40% of the system.
- IDDE Response/Follow up Timeline: Immediate response, Investigate within 7 days and Report within 21 days.

Controlling Runoff from New Development, Redevelopment and Construction Sites

- The City's site planning process, BMP selection and design criteria must meet the 2012 Ecology Manual requirements OR a program approved by Ecology under the Phase I Permit. The one acre threshold was eliminated; thresholds include replaced hard surfaces; Onsite Stormwater Management (LID) standards (see Appendix 1).
- The City must have the legal authority to inspect and enforce the maintenance standards for all private stormwater facilities.
- Inspect all new stormwater treatment and flow control BMPs/facilities and catch basins for permanent residential developments every 6 months until 90% of lots are constructed to identify maintenance needs and enforce compliance of maintenance standards.
- Inspection compliance is achieved by conducting at least 80% of scheduled inspections.
- LID Code related requirements: All codes, rules, standards and other enforceable documents must be reviewed and revised to incorporate and REQUIRE LID principles and LID BMPs. The City must conduct and review and revision process and report the results to Ecology.

- LID amendments must include: measures to minimize impervious surfaces, measures to minimize loss of native vegetation, and measures to minimize stormwater runoff.
- Watershed-scale stormwater planning: The City must select a watershed selected by a Phase I County for watershed-scale stormwater planning to participate in. IF the County selects a watershed that the city is located in, then the city must participate in the watershed planning process.

Municipal Operation and Maintenance (new title)

- The City must implement maintenance standards specified in the 2012 Ecology Manual.
- Spot checks after all major storm events are required for permanent stormwater treatment and flow control BMPs/facilities.
- Catch basin inspection schedule of every 2 years may be changed as appropriate to meet the maintenance standards based on maintenance records of double the length of time of the proposed inspection frequency. Catch basin inspections at least once every two years is required.
- The City may clean the entire MS4 within a circuit, including, including all conveyances and catch basins, once during the permit term.
- Implement practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands.

Monitoring

- Status and Trends Monitoring: Notify Ecology in writing of the chosen option.
 - Option 1: Pay into a collective fund that will cost Burien \$11,238 annually.
 - Option 2: Conduct in house monitoring sites will be selected for the Ecology-approved QAPP; If the QAPP lists a potential sampling location within Burien, then the City can monitor the site through option 2. If a site is not selected in the jurisdiction, therefore this may not be a viable.
- Effectiveness Studies: Notify Ecology in writing of the chosen option.
 - Option 1: Pay into a collective fund that will cost Burien \$18,724 annually.
 - Option 2: Conduct in house
- Source Identification and Diagnostic Monitoring Information Repository: Notify Ecology in writing of the chosen option.
 - Option 1: Pay into a collective fund that will cost Burien \$1,736 annually
 - Option 2: Conduct in house

Reporting

- Annual Reports must be posted by May 31 each year.
- Submit annual reports electronically using Ecology's WA WebDMR program available on Ecology's website.

- Include attachments to the annual report including summaries, descriptions, reports and other information as required, or as applicable, to meet the requirement of the permit during the reporting period.

TMDLs

- The City of Burien has no TMDL requirements.

Appendix 1

*In all sections the 2005 Ecology Manual was replaced with the 2012 Ecology Manual.

Section 1: Exemptions

- Road Maintenance: Exemptions for road maintenance apply to both new or redevelopment projects.

Section 2: Definitions

- Some definitions were updated and definitions were added for Bioretention BMPs, Converted Pervious Surface, Erodible or Leachable Materials, Hard Surface, Low Impact Development, LID Best Management Practices, LID Principles, Permeable Pavement, Pervious Surface, Pollution-generating hard surface (PGHS), and Rain garden.
- Hard surface replaces impervious surfaces through the document. Hard surfaces are defined as: An impervious surface, a permeable pavement, or a green roof.

Section 3: Applicable of the Minimum Requirements (M.R.)

- The one acre threshold was eliminated from the “regulatory threshold” triggering the regulations to be applied to new development, redevelopment and construction site activities. All minimum requirements apply to projects of 5,000 sqft or greater or new PLUS REPLACED HARD surface area. All minimum requirements apply to projects that convert 3/4 acres or more of vegetation (native vegetation has been eliminated) to lawn or landscaped areas or convert 2.5 acres or more of vegetation to pasture. Minimum requirements #1 - #5 apply to projects that result in 2,000 sqft or greater of new plus replaced HARD surface area.
- All new development and redevelopment projects regardless of size must comply with minimum requirement #2.

Section 4: Minimum Requirements

- M.R. #1: Stormwater Site plan shall use site- appropriate development principles to retain native vegetation and minimize impervious surfaces to the extent feasible.
- M.R. #2: Two things have been removed from this requirement. 1) Permittees may no longer choose to allow site operators to apply an “Erosivity Waiver.” 2) Permittees may no longer develop an abbreviated SWPPP. SWPPPs are required for all projects which result in 2000 sqft or more of new replaced hard surface area or which disturb 7000 sqft or more. Projects below

these thresholds can prepare Construction SWPPPs. Guidance on the content of the SWPPP document was updated. See section for further detail.

- M.R. #5: New project thresholds detailed further in this section, including the requirement for LID Development Performance Standards and BMP T5.12 or the Mandatory List for LID Performance Standards (provided in text – see text for me details).
- M.R. #8: Projects within the drainage area of a wetland shall comply with Guide Sheets #1 through #1 in Appendix I-D of the 2012 Ecology Manual.

NEW Section 8: Feasibility Criteria for Selected Low Impact Development Best Management Practices

- This is a new section to Appendix 1 that requires feasibility criteria for Site/Engineering-based Conditions, Bioretention BMPs and Rain Gardens, Permeable Pavements, and Vegetated Roofs. This section also addresses competing needs for on-site stormwater management requirements with public health and safety standards etc.

Appendix 3-2: Existing and Future
Program Analysis

CITY OF BURIEN

**Stormwater Management Program Gap Analysis
June 2012**





CITY OF BURIEN

Stormwater Management Program Gap Analysis

June 2012

Stormwater Management Program Element	Existing SWM Program			Future SWM Program		
	Staff FTE	Staff Cost (\$)	Expense Cost (\$)	Staff FTE	Staff Cost (\$)	Expense Cost (\$)
SWMP Element #1 - Public Education and Outreach	0.10	\$8,600	\$10,000	0.15	\$13,000	\$15,000
SWMP Element #2 - Public Involvement and Participation	0.05	\$7,800	\$0	0.05	\$5,000	\$0
SWMP Element #3 - Illicit Discharge Detection and Elimination	0.50	\$43,200	\$42,700	0.60	\$50,000	\$30,000
SWMP Element #4 - Controlling Runoff from New Development, Redevelopment, and Construction Sites	0.50	\$53,700	\$7,700	1.30	\$109,000	\$25,000
SWMP Element #5 - Pollution Prevention and Operation and Maintenance for Municipal Operations	6.40	\$412,900	\$520,700	7.30	\$608,000	\$503,000
SWMP Element #6 - Program Implementation	0.00	\$0	\$0	0.05	\$4,200	\$30,000
SWMP Element #7 - Total Maximum Daily Load Allocations	N/A	N/A	N/A	N/A	N/A	N/A
SWMP Element #8 - Monitoring	0.00	\$0	\$0	0.05	\$4,200	\$32,500
SWMP Element #9 - Reporting	0.05	\$5,400	\$10,000	0.05	\$5,000	\$5,000
SWMP Element #10 - Regional Watershed Planning and ESA	0.05	\$5,400	\$76,000	0.10	\$9,000	\$76,000
SWMP Element #11 - Underground Injection Control Rule	N/A	N/A	N/A	0.00	\$0	\$0.00
SWMP Element #12 - Capital Improvement Program	0.40	\$52,900	See CIP	0.60	\$50,000	See CIP
SWMP Element #13 - Additional Activities	0.70	\$70,400	\$284,100	1.00	\$84,000	\$365,000
TOTAL	8.75	\$660,000	\$951,000	11.25	\$942,000	\$1,082,000
GRAND TOTAL	\$1,611,000			\$2,024,000		
	Future Funding Gap		\$413,000			

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments	
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)		
SWMP Element #3 - Illicit Discharge Detection and Elimination												
SS.C.3.a 3.1 Storm Sewer System Map	Develop a municipal storm sewer system map of: -All storm sewer outfalls (including tributary areas and land use); -Receiving waters; -Structural stormwater facilities; -Connection points authorized during permit term; -Areas not draining to surface water. -Stormwater treatment and flow control BMPs/facilities must be mapped. -The City may rely on permanent stormwater controls plans for mapping of LID BMPs. -Land use must be mapped for all drainage areas going to a 24-inch diameter conveyance line.	Year 4 (2/15/2011), Continue in New Permit Term	The City has updated their GIS stormwater map using existing as-built drawings and from new/re-development project that have either privately and publicly owned stormwater facilities. All stormwater system data is available in a GIS format and is maintained by the GIS and IT Department, and by the SWM Technician.			\$15,000	Update mapping to meet the new permit requirements including mapping all stormwater treatment and flow control BMPs/facilities. Map all land uses for drainage areas going to a 24-inch diameter conveyance line.			\$15,000	\$15,000 is allocated for the "GIS Plan Implementation" expenditure line item of the 2011 budget. Maintain current budget for ongoing stormwater system mapping.	
			The GIS Stormwater Map is available on the City's website and upon request from the public.				Continue current practice					
SS.C.3.b 3.2 Illicit Discharge Ordinance	Develop and implement an ordinance prohibiting non-stormwater discharge to the MS4. The ordinance should cover: -Potable water flushing; -Lawn and landscape irrigation runoff; -Swimming pool discharges; -Street and sidewalk wash water; -Other non-stormwater discharge. Include enforcement procedures in the ordinance and develop an enforcement strategy. -Update IDDE ordinance to include a new conditionally discharge: Spa and Hot Tub Discharges. All spa and hot tub discharges shall be thermally controlled to prevent an increase in temperature in receiving waters. -Update the IDDE Ordinance as needed to meet all new requirements in the Permit.	Year 2.5 (8/15/2009) Update in New Permit Term	The City has adopted an ordinance to address Illicit Connections and Illicit Discharge Detection and Elimination (Burien Municipal Code Chapter 13). The ordinance includes a list of allowable and prohibited discharges to the City's drainage system or streams. The City has developed an enforcement strategy and the SWM ordinance including escalating enforcement procedures and actions. The Code Enforcement group is responsible for all IDDE Code Enforcement activities.								The City is already meeting the new Permit requirements for their IDDE Ordinance because the City adopted the KC SPPM, which addresses conditions discharges for Spas and Hot Tubs.	
SS.C.3 & SS.C.3.c 3.3 Detection and Elimination Program	Develop and implement program to detect and address non-stormwater discharges, including spills and illicit connections.	Permit End (8/19/2011), Start in New Permit Term	See individual program activities below.				See individual program activities below.					
	Develop procedures for: -Locating priority areas based on land use, previous complaints, and storage practices; -Field assessment during dry weather of outfalls in 3 priority receiving waters; Once a problem is reported or identified: -Characterizing nature and potential threat of illicit discharges; -Tracing the source of illicit discharge; -Notifying property owners; -Removing the source and conducting follow-up inspections. The City's IDDE compliance strategy should include the applicable operational and/or structural source control BMPs for pollutant generating sources associated with existing land uses and activities. The strategy shall also include maintenance of permanent stormwater treatment facilities and catch basins.	Permit End (8/19/2011), Start in New Permit Term	The City has an IDDE program in place. The City does not have a formal IDDE procedures manual or forms they use for tracking of the IDDE Program. This is on the City's work plan for NPDES Permit Compliance related items. The City pays King County on an hourly basis to conduct a "Water Quality Audit" program that performs visits to commercial businesses to provide education on illicit discharge (City pays for up to 300 hours a year). County looks for problems and begins corrective action process - sends letters, follow-up etc. Ongoing problems are referred to the City for fines/enforcement.			\$25,000	The City shall develop a formal IDDE procedures manual with tracking forms and standard operating procedures. Update the City's IDDE program compliance strategy to include applicable operational and/or structural source control BMPs for pollutant generating sources associated with existing land uses and activities. The strategy shall also include maintenance of permanent stormwater treatment facilities and catch basins. IDDE Program manual shall include procedures for: 1) conducting investigations for the purpose of detecting illicit discharges and illicit connections. 2) characterizing the nature of identified problems. 3) tracing the source of illicit discharges. 4) Removing the source and conducting follow-up inspections.	Add 200 staff hours		\$10,000	\$25,000 is allocated for the "Swm Billed By Swm Dept" expenditure line item of the 2011 budget to cover the County's Water Quality Audit Program. The City anticipates moving this program in-house. Allocate an additional 200 staff hours/year to implement the program. Retain \$10,000/year for external clean-up and enforcement activities. See Element 6.1 for developing the written documentation of the IDDE program and Standard Operating Procedures for identifying, tracking, reporting, and resolving IDDE problems.	
	Field Assessments of three high priority receiving waters by Year 4 and one high priority receiving water each year after. Prioritize conveyances and outfalls. Complete field screenings of at least 40% of the City's conveyances and outfalls.	Year 4 (2/15/2011), Annually After Year 5 (2/15/2012), Start in New Permit Term	The City has prioritized receiving waters for visual inspection. The evaluation was based on the sub basins delineated by King County and the City, which are, Miller Creek basin, Walker Creek basin, Salmon Creek basin and the Puget Sound sub basin. City staff performs the dry weather outfall inspections for the City for approximately 1 site per year.				See above.	Complete field screenings of at least 40% of the conveyances and outfalls.	See Element 5.4.	See Element 5.4.	See Element 5.4.	Significant increase in staff effort is needed under proposed permit. Previous requirement only required screening of outfalls. New requirement will require screening 40% of all elements within the City's conveyances and outfalls. These screenings will be conducted under Element 5.4 Catch Basin Inspection.
	Characterization, source tracing (includes visual inspections, and when necessary opening manholes, using mobile cameras, collecting and analyzing water samples, and/or other detailed inspection procedures) and removal.	As needed, As needed in New Permit Term	Conducted by King County as needed under Water Quality Audit Program.				See above.	Continue to characterize discharges, trace sources, and remove IDDE threats.			See Element 6.1 and activities above	Source Tracing includes visual inspections, and when necessary opening manholes, using mobile cameras, collecting and analyzing water samples, and/or other detailed inspection procedures. See Element 6.1 for developing the written documentation of the IDDE program and Standard Operating Procedures for identifying, tracking, reporting, and resolving IDDE problems.

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	
SS.C.3.d 3.4 Public Education and Spill Reporting	Inform public employees, businesses, and general public of hazards associated with illegal discharges.	Permit End (8/19/2011), Continue in New Permit Term	The City utilizes the Water Quality Audit program assisted by King County to provide public education on the IDDE program.				Continue current practice				
	Publicize a hotline for public reporting of spills and illicit discharges.	Year 2 (2/15/2009), Continue in New Permit Term	The City has established a hotline number to report spills and illicit discharges. The City publicizes the hotline on their website.				Continue current practice				
	Keep records of calls and follow-up actions taken. Include the new IDDE Response/Follow Up Timeline in the new IDDE procedures.	Year 2 (2/15/2009), Continue in New Permit Term	The City first responds to spill and King County conducts secondary response to spills.				Continue current practice. Include new IDDE response/follow up timeline in the new IDDE procedures.				
SS.C.3.e 3.5 Program Evaluation and Tracking	Track number and type of illicit discharges, including spills, identified and inspections made.	Permit End (8/19/2011), Continue in New Permit Term	The City keeps records of drainage complaints, spills and IC/IDDE in a program called "CityWorks" is an asset management software program. This program is integrated with GIS. City uses it for SWM Program items only (mapping, IDDE, problem area identification, maintenance).				Continue current practice				
	Track feedback from public education efforts.	Permit End (8/19/2011), Continue in New Permit Term	In place through web link on the City's website.				Continue current practice				
SS.C.3.f 3.6 Staff Training	Train responsible staff on illicit discharge identification, investigation, clean-up, and reporting.	Year 2.5 (8/15/2009), Continue in New Permit Term	The City has provided IC/IDDE trainings to City staff for IC/IDDE on identification and reporting on the illicit discharges.			\$2,667	Train staff upon development of the IDDE Procedures Manual.			\$5,000	1/3 of the \$8,000 staff training budget is allocated for the "Registration - Training/workshop" expenditure line item of the 2011 budget. Provide training to the SWM Tech, ROW Inspectors, Maintenance Crews and SWM Engineers/Technicians. Continue trainings in the New Permit Term.
	Ongoing training for all municipal field staff and other appropriate staff on identification and reporting.	Year 3 (2/15/2010), Continue in New Permit Term	The City has provided training to all staff on IDDE.				Train new and existing staff as needed.				
	Document and maintain records of training.	Year 2.5 (8/15/2009), Continue in New Permit Term	The City maintains records of training activities.				Continue current practice.				
Total -Element #3				0.50	\$43,236	\$42,667		0.60	\$50,000	\$30,000	Existing 0.50 FTE is for the SWM Engineering Tech allocated to IDDE related activities (0.4 FTE) and working with KC on the Water Quality Audit Program (0.1 FTE under Element 1.1), plus 0.1 FTE working on GIS Mapping with IT staff. Increase the required staff time as noted above.
SWMP Element #4 - Controlling Runoff from New Development, Redevelopment, and Construction Sites											
SS.C.4.a 4.1 Stormwater Runoff Control Ordinance	Adopt an ordinance to address runoff from new development, redevelopment, and construction site projects disturbing 1 or more acre. The ordinance should include: -Minimum technical requirements equivalent to the 2005 Ecology Manual; -Legal authority for inspection of private facilities; -Provisions to allow LID techniques.	Year 3 (2/16/2010), Adopt by Ordinance by 12/31/2015	In 2009, the City adopted the 2009 King County Surface Water Design Manual (KCSWDM) through ordinance (BMC Chapter 13) to address runoff from new development, redevelopment, and construction site activities. The Ordinance includes the minimum requirements, technical thresholds, and definitions in Appendix 1 for new development, redevelopment and construction site activities. The adopted ordinance and the 2009 KCSWDM include a site planning process, BMP selection, and design criteria that reduce the discharge of pollutants to the maximum extent practicable. The ordinance allows non-structural preventive actions and source reduction approaches, such as LID Techniques, to minimize the creation of impervious surface and the disturbance of native soils and vegetation.				Update the City's stormwater runoff control ordinance to adopt the 2012 Ecology Manual or an equivalent approved Manual (expected to be 2012 KCSWD). Work with the Planning Department to adopt/revise codes, rules, standards and other enforceable documents as necessary to require LID principles and LID BMPs. This will require the City to conduct and review the revision process for LID code writing/implementation etc and report the results to Ecology.	Add 200 staff hours		\$15,000	The City shall include the Planning Department for adopting LID regulations (for subdivisions, permitting etc.). The City may need a feasibility study in applying LID in Burien that identifies areas of steep slopes, critical recharges areas, soils mapping (infiltration capacities identified), etc). Add 200 staff hours and \$15,000 in consultant support to adopt new King County Manual and LID regulations.
	The City's site plan process, BMP selection and design criteria must meet the 2012 Ecology Manual requirements or an approved equivalent Manual. The one acre threshold has been eliminated. Enhanced emphasis on Onsite Stormwater Management (LID) standards. All codes, rules, standards, and other enforceable documents must be reviewed and revised to incorporate and require LID principles and LID BMPs. LID amendments must include: measures to minimize impervious surfaces, measures to minimize loss of native vegetation, and measures to minimize stormwater runoff.	Adopt LID Codes by 12/31/2016									
SS.C.4.b 4.2 Site Plan Review and Inspection	Develop a permitting process with plan review, inspection, and enforcement for public and private projects that disturb one acre of land or greater. -Review all stormwater site plans; -Inspect high risk sites prior to clearing and construction; -Inspect all sites during and after construction; Verify all sites have a maintenance plan in place and maintenance responsibility has been assigned; -Implement an enforcement strategy. -Compliance = 80% of scheduled inspections. -Develop a permitting process with plan review, inspection, and enforcement to ensure that the ordinance guidelines meeting the 2012 Ecology Manual requirements.	Year 3 (2/16/2010), Start in New Permit Term	The City has applied the Technical Thresholds in Appendix 1 to all sites one acre or greater, including projects less than one acre that are a part of a larger common plan of development or sale. The City has also applied the permitting process to all sites that disturb a land area of one acre or greater, including projects less than one acres that are part of a larger common plan of the development or sale.				Additional staff time to review projects for compliance with 2012 Ecology Manual requirements. The City currently has smaller review thresholds then required by the Permit as described in BMC 13.10.130. Drainage review is required for projects that are subject to a City permit.	Add 800 staff hours			Additional staff time (approx 800 hours/year) will be required for the permitting process as new requirements are implemented. Reminder: Ecology eliminated the 1 acre threshold for the new Permit. The City now requires projects that add 500 sqft or of new impervious area be routed to the Public Works department for drainage review.

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	
§5.C.4.c 4.3 Long Term Operation and Maintenance	Adopt an ordinance requiring inspection and maintenance of stormwater facilities and establishing enforcement procedures. The City is required to have the legal authority to inspect and enforce the maintenance standards for all private stormwater facilities.	Year 3 (2/16/2010), Implement by 12/31/2015	The City has adopted an ordinance that provides the legal authority through the approval process for new development, to inspect private stormwater facilities that discharge to the City. The City has conducted site inspection (ESC) for single family residential (SFR) homes. The Building Department is responsible for the inspections of SFRs.				Obtain a covenant or easement for future private facility maintenance activities/inspections				
	Adopt maintenance standards for facilities consistent with the 2005 Ecology Manual. Adopt maintenance standards for facilities consistent with the 2012 Ecology Manual.	Year 3 (2/16/2010), Implement by 12/31/2015	The City has adopted the 2009 KCSWDM includes stormwater maintenance standards and requirements that are equivalent to the Washington State Department of Ecology's 2005 Stormwater Manual.				Adopt maintenance standards consistent with the 2012 Ecology Manual.	See Element 4.1			The City will coordinate with King County to ensure the maintenance standards are consistent with the 2012 Ecology Manual. Staff time included in Element 4.1.
	Inspect new treatment and flow control facilities annually. Inspect all new stormwater treatment and flow control BMPs/facilities and catch basins for permanent residential developments every 6 months until 90% of lots are constructed to identify maintenance needs and enforce compliance of maintenance standards. Inspection compliance is achieved by conducting at least 80% of scheduled inspections.	Year 3 (2/16/2010), Implement by 12/31/2015	The City has conducted site inspections for new development and redevelopment projects that disturb a land area of one acre or greater, including project less than one acre that area part of a larger common plan of the development. The City contracts with King County to annually inspect all stormwater treatment and flow control facilities (other than catch basins) permitted by the City.			See Element 5.2	Ensure the City has the proper legal authority to enforce the maintenance standards for all private stormwater facilities. Inspect all new stormwater treatment and flow control BMPs/facilities and catch basin for permanent residential developments every 6 months until 90% of lots are constructed to identify maintenance needs and enforce compliance of maintenance standards. Inspections compliance is achieved by conducting at least 80% of scheduled inspections.	Add 500 staff hours		See Element 5.2 and 6.1	See Element 6.1 for the expense to develop a Private Facility Inspection and Maintenance Program. Add 500 staff hours/year to implement the Private Facility Inspection program.
	For new residential developments that are part of a larger common plan of development, inspect new water quality and flow control facilities every six months during building construction.	Year 3 (2/16/2010), Implement by 12/31/2015	The City has inspected new stormwater treatment and flow control facilities privately owned or operated to identify maintenance needs and enforce compliance with maintenance standards as needed.								
§5.C.4.d 4.4. Permit Tracking and Inspection Records	Keep records of all inspections, enforcement actions, maintenance activities, and construction sites.	Year 3 (2/16/2010), Continue in New Permit Term	The City purchased City works, a Stormwater Asset Management system. The City is using the system to keep records of drainage inspections and maintenance, create work tickets, and to track cost and time. The City has reviewed and maintained the review records of Stormwater Site Plans for new development and redevelopment projects. The City has also inspected and maintained the inspection records, prior to clearing and construction, of all known development sites that have a high potential for sediment transport as determined through plan review. The City has also implemented a procedure for keeping inspection records and enforcement actions by staff, including inspection reports, warning letters, notices of violations, and other enforcement records, maintenance inspections and maintenance activities. "City View" software program is used to track permit status, development review, comments, construction site inspections, etc - links to "MyBuildingPermit.com."			\$5,000	Continue current practice.			\$5,000	\$5,000 is allocated for the "Computer Consultand Pro Services" expenditure line item of the 2011 budget, which includes the purchase and maintenance of the City Works software. Computer support is an ongoing expense to the stormwater program.
§5.C.4.e 4.5 NOI for Construction Activity	Make copies of the "Notice of Intent for Construction Activity" and/or "Notice of Intent for Industrial Activity" available to developers.	Immediately (2/16/2007), Continue in New Permit Term	The City has provided copies of the "Notice of Intent for Construction Activity" and "Notice of Intent for Industrial Activity" to developers of proposed new development and redevelopment sites				Continue current practice.				The Erosion and Sediment Control (ESC) brochure for small project site has been created and is available to the public. The Small Project Drainage Requirement brochure has been created and is available to the public. (Source: 2011 SWMP)
§5.C.4.f 4.6 Staff Training	Conduct training for staff in permitting, plan review, construction site inspection, and enforcement concerning the Stormwater Runoff Control program (Element 4.1). Maintain records of training.	Year 3 (2/16/2010), Train staff after new stormwater runoff control is adopted	The City has provided training to City staff who are responsible for implementing the program to control runoff from new development, redevelopment, and construction sites, including permitting, plan review, construction site inspection, and enforcement. The City has provided certified Erosion and Sediment Control (ESC) training to relevant City staff.			\$2,667	Train staff on the new 2012 Ecology Manual and the updated stormwater runoff control ordinance.	Add 100 staff hours		\$5,000	1/3 of the \$8,000 staff training budget is allocated for the "Registration - Training/workshop" expenditure line item of the 2011 budget. Increase training budget to \$5,000 annually to train new staff as needed and current staff on the new stormwater control ordinance and 2012 Ecology Manual. Assume 2 staff attend up to one week of training each per year.
			The City maintains records of training activities.				Continue current practice.				
§5.4.h 4.7 Watershed-Scale Stormwater Planning	City must participate in watershed-scale stormwater planning as initiated by the King County. (The County is required to select one watershed for stormwater planning.)	Start in New Permit Term	Not Applicable.				Continue participation in watershed planning for Miller-Walker Watershed as initiated by King County.			See Element 10	See Element 10 for Watershed Planning.
Total -Element #4				0.50	\$53,713	\$7,667		1.30	\$109,000	\$25,000	0.50 FTE is for a portion of the CIP Engineers allocated to stormwater development review for the existing SWM Program. Increased staff time as noted above.

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	
SWMP Element #5 - Pollution Prevention and Operation and Maintenance for Municipal Operations											
SS.C.5.a 5.1 Adopt Maintenance Standards	Adopt maintenance standards consistent with the 2005 Ecology Manual. Adopt maintenance standards consistent with the 2012 Ecology Manual.	Year 3 (2/16/2010), Adopt maintenance standards by 12/31/2015	The City adopted the 2009 KCSWDM in February of 2010, which includes the maintenance standard and requirements of drainage structures such as flow control, conveyance, and water quality. The City also adopted the 2009 Stormwater Pollution Prevention Manual (KCSPPM) in August of 2009, which includes Best Management Practices (BMPs) for Commercial, Multi-Family and Residential Properties.				Adopt and implement maintenance standards consistent with the the 2012 Ecology Manual.			See Element 6.1	Adopting the updated King County Manual (Element 4.1) should cover this requirement. Staff may need additional training (Element 5.7) to implement the revised maintenance standards. See Element 6.1 for developing the written documentation of the maintenance standards and implementation plan.
SS.C.5.b 5.2 Annual Inspections of Water Quality and Flow Control Facilities	Conduct annual inspections of City owned stormwater treatment and flow control facilities; Perform necessary maintenance actions. Compliance = 95% of scheduled inspections.	Annually Starting in Year 3 (2/15/2010), Continue in New Permit Term	The City inspects City-owned water quality and flow control facilities on an annual basis. The City also conducted site inspections for City-owned new drainage facilities, and documents and maintains all records.			\$125,000	Continue current practice.	Add 250 staff hours		\$75,000	\$75,000 is allocated for the "Repairs And Maintenance" expenditure line item of the 2011 budget. \$50,000 is allocated for the "Swm Billed By Swm Dept" expenditure line item of the 2011 budget, which covers the County's inspection of stormwater facilities. The City would like to take on inspections internally, replacing the expense to King County with 150 internal staff hours for inspections (2 people inspecting 8 facilities/day) and 100 staff hours for program management. Retain the \$75K Repair and Maintenance budget for facility maintenance identified during the inspections. See Element 6.1 for developing the written documentation of the maintenance standards and implementation plan.
SS.C.5.c 5.3 Spot Checks after Storm Events	Spot check stormwater treatment and flow control facilities after major storm events (>10-year recurrence interval or <i>approximately 3.0 inches in 24 hours for Barien</i>); Conduct repairs as necessary. Spot checks after all storm events are required for permanent stormwater treatment and flow control BMPs/facilities.	After major storm events Starting in Year 3 (2/15/2010) Continue in New Permit Term	King County conducts spot checks for the City. Fifteen facilities were spot checked in 2010.			\$43,000	Conduct spot checks of treatment and flow control facilities after all storm events. The City will need to keep an inspection procedures log and identify who will be doing inspections.	Add 200 staff hours		\$43,000	\$43,000 is allocated from the following 2011 budget expenditure line items: "Maintenance-Pump Stations," "Util - Pump 28: 142nd St," "Util - Pump 28: Hermes Deprsn," "Util - Pump 21: Chelsea Park," and "Chelsea Pond." Add staff time to include spot checks of flow control and water quality facilities after storm events (approx 70 facilities for drive-by inspections 6 times/year)
SS.C.5.d 5.4 Catch Basin Inspection	Inspect all catch basins and inlets at least once during the permit term; Clean catch basins as necessary; Dispose of decant water appropriately. Catch basin inspection schedule of every 2 years may be changed as appropriate to meet the maintenance standards based on maintenance records of double the length of the proposed inspection frequency. Catch basin inspections at least once every two years is required.	Permit End (8/19/2011), Continue in New Permit Term	The City is in the process of inspecting the City's catch basins and plans to have all catch basins inspected at least once before the permit ends. At the end of 2010 the City had cleaned 3,263 catch basins out of 5,913.			\$150,000	Catch basin inspection schedule of every 2 years shall be changed as appropriate to meet the maintenance standards based on maintenance records of double the length of the proposed inspection frequency. Catch basin inspections at least once every two years is required.	Add 1,250 staff hours		\$100,000	\$50,000 of \$250,000 is allocated for the "Swm Billed By King Co Roads" expenditure line item of the 2011 budget to cover catch basin inspections. \$100,000 is allocated for the "Surface Water Mgmt Inventory" expenditure line item of the 2011 budget for video inspection and cleaning of the conveyance system. The City would like to shift to internal inspections for publically owned facilities. The inspection program will cover all half of the publically owned catch basins each year to meet this permit requirement. The inspections will also document potential IDDE problems to meet the IDDE field screenings requirements (Element 3.3). New staff time: 6,000 catch basins and 3,200 inlets; 1/2 inspected each year; assume one staff person conducts 40 inspections per work day (approximately 1000 staff hours per year) and the program requires an additional 250 hours of management, planning, and recordkeeping time. Maintain \$100,000 budget for video inspection and cleaning. See Element 6.1 for developing the written documentation of the maintenance standards and implementation plan.
SS.C.5.f 5.5 Road Maintenance	Implement practices to reduce stormwater impacts from street, parking lot, and highway runoff. Address the following activities: -Pipe and culvert cleaning; -Ditch and roadside vegetation management; -Street cleaning; -Street repair, resurfacing, and striping; -Snow and ice control; -Utility installation; -Dust control. The City may clean the entire MS4 within a circuit, including all conveyances, catch basins. The system must be cleaned once during the Permit term.	Year 3 (2/15/2010), Continue in New Permit Term	On an annual basis, the City is implementing practices to reduce stormwater impacts associated with runoff from streets, parking lots and roads maintained by the City including pipe and culvert cleaning, ditch and roadside areas maintenance including vegetation management, street sweeping and cleaning, and street repair and resurfacing per the requirements of the King County Road Standards. The City also conducts snow and ice control as needed; arterials are high priority and residential snow and ice control are conducted on an emergency basis.			\$200,000	The City shall clean the entire MS4 in within a circuit including all conveyances and catch basins. The system must be cleaned once during the Permit term.			\$200,000	\$200,000 of \$250,000 is allocated for the "Swm Billed By King Co Roads" expenditure line item of the 2011 budget to cover street sweeping, pipe, ditch, and culvert maintenance. Retain existing program in future years

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	
SS.C.5.g 5.6 Non-Roadway Property Maintenance	Implement practices to reduce stormwater impacts from City-owned non-roadway property runoff (parks, open space, right-of-way, and maintenance yards). Address the following: -Application of fertilizer, pesticides, and herbicides; -Sediment and Erosion control; -Landscape maintenance and vegetation disposal; -Trash management; -Building exterior cleaning and maintenance.	Year 3 (2/15/2010), Continue in New Permit Term	The City has an Integrated Pest Management (IPM) Brochure that refers to EPA and King County IPM materials. The City does not have a formal IPM Document; however, the City does perform sediment and erosion control, landscape maintenance and vegetation disposal, street repair/resurfacing and trash management (through a franchise agreement). The City is not conducting building exterior cleaning and maintenance.				Continue current practice.			\$75,000	In 2012, the City added six seasonal staff to conduct mowing and other non-property roadway maintenance activities. Temporary staff perform approximately 5,000 hours of service per year at a pay rate of \$13/hour. For budgeting purposes, temporary staff are shown as an expense rather than FTE, as they are not fully benefited positions. Contract services are covered under other elements.
SS.C.5.h 5.7 Staff Training	Implement ongoing training activities for construction, maintenance, and operations personnel. Include training on: -O&M standards; -inspection procedures; -selecting appropriate BMPs; -Reducing water quality impact in daily activities; -Reporting of water quality concerns and illicit discharges. Maintain records of training.	Year 3 (2/15/2010), Continue in New Permit Term	The City has conducted training on O&M standards.			\$2,667	Continue current practice and train new staff as needed.	Add 100 staff hours		\$10,000	1/3 of the \$8,000 staff training budget is allocated for the "Registration - Training/workshop" expenditure line item of the 2011 budget. Increased staff training is needed to educate staff about stormwater facility maintenance standards and to educate new staff hired to conduct internal inspections. Assume 8 maintenance staff attend up to 2 days of training per year.
SS.C.5.i 5.8 SWPPP for Maintenance Yards	Develop and implement Stormwater Pollution Prevention Plans (SWPPP) for all equipment maintenance and storage yards not covered under the Industrial Stormwater General Permit. Include an implementation schedule for structural BMPs and conduct occasional visual inspection of discharge from the site.	Year 3 (2/15/2010), Update as needed in New Permit Term	The City is implementing a SWPPP for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated in the areas subject to the Permit that are not required to have coverage under the General NPDES Permit for stormwater discharges Associated with Industrial Activities or another NPDES Permit.				Update SWPPP if needed.				
SS.C.5.j 5.9 Record Keeping	Maintain records of inspection and/or repair activities.	Ongoing, Continue in New Permit Term	The City will continue to develop, implement and keep track of the development and implementation records of the City's O&M program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. The City uses City works to track O&M activities.				Continue current practice.				
Total -Element #5				6.40	\$412,877	\$520,667		7.30	\$608,000	\$503,000	In the existing program, there are 6.0 FTE allocated for Maintenance Staff (Maintenance Worker II (2 FTE), Maintenance Worker III (2 FTE), Maintenance Assistant (1.5 FTE), the Street/SWM Managers time (0.5 FTE) and the SWM Engineering Tech (0.4 FTE). Increase staff time as noted above.
Total Gap - Element #5											
SWMP Element #6 - Program Implementation											
SS.A.1 6.1 SWMP Implementation	Develop and implement a SWMP that covers the geographic area subject to the permit. Included with Elements 1 through 5.	Permit End (8/19/2011), Continue in New Permit Term	The City develops an updated SWMP each year to be included with their Annual Report to Ecology.				The City needs to develop policies and standard operating procedures for IDDE, Private Facility Inspections, and Facility and Catch Basin Inspections and Maintenance.	Add 100 staff hours		\$30,000	Add staff time and consultant funding to develop policies and standard operating procedures for IDDE (\$10,000), Private Facility Inspection and Maintenance Program (\$10,000), and Facility and Catch Basin Inspection and Maintenance Program (\$10,000). Cost to train staff to implement these programs is included in Elements 3.6 and 5.7 (\$15,000 total).
SS.A.2 6.2 SWMP Documentation	Prepare written documentation of the SWMP and issue annual updates with the Annual Report to Ecology. Annual reports must be submitted using Ecology's WA WebDMR program and include attachments to support work completed during the reporting period. Include attachments to the annual report including summaries, descriptions, reports and other information as required, or as applicable, to meet the requirement of the permit during the reporting period.	March 31 Each Year, March 31 Each Year in the New Permit Term	The City submitted its 2010 SWMP to Ecology by the due date. SWMP due to Ecology by 3/31/2012.				Continue current practice. Submit SWMPs on an annual basis. Submit the annual report using Ecology's WA WebDMR program and include attachments to support work completed during the reporting period.				See Element #9.1.
SS.A.3 6.3 Program Tracking	Track the cost or estimated cost of development and implementation of the SWMP; provide this information to Ecology upon request.	Annually starting in 2009, Continue in New Permit Term	See Elements #1 through 5.				See Elements #1 through 5.				See Elements #1 through 5.
	Track the number of inspections, enforcement actions, and public education activities. Include this information in the Annual Report.	As stipulated by Permit, Continue in New Permit Term	See Elements #1 through 5.				See Elements #1 through 5.				See Elements #1 through 5.
SS.B 6.4 MEP and AKART	Design the SWMP to reduce discharge of pollutants to the Maximum Extent Practicable (MEP), meet State AKART requirements, and protect water quality.	N/A, N/A	Burien Municipal Code focuses on MEP and AKART standards for reducing pollutants.								
Total -Element #6				0	\$0.00	\$0.00		0.05	\$4,160	\$30,000	See Elements 1 through 5 for FTE for program implementation.

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	
SWMP Element #7 - Total Maximum Daily Load Allocations											
7.A	7.1 Permit Recognized TMDLs	Applicable TMDLs are listed in Appendix 2 of the NPDES Permit. None apply to the City of Burien at this time.	N/A, N/A	Not Applicable. There are no TMDL waterbodies in Burien.				Not Applicable.			
7.B	7.2 TMDLs not Listed in Permit	Compliance with TMDLs not listed in Appendix 2 of the Permit is achieved by meeting the requirements of the Permit; Keep records and report activities relevant to applicable TMDLs.	N/A, N/A	Not Applicable. There are no TMDL waterbodies in Burien.				Not Applicable.			
7.C	7.3 TMDLs Approved during the Permit Cycle	Comply with future TMDL requirements issued through permit modifications.	N/A, N/A	Not Applicable; however this is dependent on Ecology. Pending new Permit language.				Not Applicable; however this is dependent on Ecology.			
Total -Element #7				N/A	N/A	N/A		N/A	N/A	N/A	
SWMP Element #8 - Monitoring											
8.B	8.1 Existing Monitoring	With Burien having a population between 10,000 and 75,000 the City shall identify two outfalls or conveyances where stormwater sampling could be conducted. One outfall shall represent commercial land use and the second will represent high-density residential and use. Describe any stormwater monitoring or studies and type of information gathered in annual report; Assess the appropriateness of the BMPs in the SWMP and note any proposed changes.	March 31 Each Year, N/A in New Permit Term	See Element 8.2.							
8.C.1.a	8.2 Stormwater Monitoring	Prepare for future monitoring by selecting two outfalls for flow-weighted composite sampling (must meet Ecology requirements). Document site selection, possible constraints, basin description, and water quality concerns in receiving waters.	12/31/2010, N/A in New Permit Term	The City has submitted the required monitoring site selection documents to Ecology that identifies the locations for the potential future outfall monitoring.							For more information see the "Stormwater Monitoring Plan Report" document dated March 31, 2011.
8.C.1.b	8.3 SWMP Effectiveness Monitoring	Prepare for future monitoring by identifying two questions to be studied and selecting monitoring sites. Develop a monitoring plan based on Ecology requirements.	12/31/2010, N/A in New Permit Term	The City has submitted the required effectiveness monitoring documents to Ecology.							
8.C.2	8.4 Annual Reporting	Describe the status of identifying monitoring sites, questions, and developing monitoring plan.	Starting with 2010 Annual Report (3/31/2011), N/A in New Permit Term	The City submitted a status of their program to identifying monitoring sites, questions, and developing monitoring plan in the 2010 Annual Report/2011 SWMP. This is a place holder for the 2011 monitoring reporting (to be submitted in 2012).							
8.C.1	8.5 Status and Trends Monitoring	The City has two options for status trends monitoring. They are required to notify Ecology of which option is selected. Option 1: Pay into a collective fund that will cost Burien \$11,238 annually. Option 2: Conduct in house monitoring sites will be selected for the Ecology-approved QAPP; If the QAPP lists a potential sampling location within Burien, then the City can monitor the site through option 2. If a site is not selected in the jurisdiction, therefore this may not be a viable.	Annually, Payment due 8/15 starting in 2014	Not Applicable.				Elect Option 1: Pay an annual fee to Ecology of \$11,238. Option 1 is the most cost effective option for the City because implementing their own monitoring program could be very costly.		\$11,500	Assumes annual pay in program remains the same each year.
8.C.2	8.6 Effectiveness Studies	The City has two options for effectiveness studies. They are required to notify Ecology of which option is selected. Option 1: Pay into a collective fund that will cost Burien \$18,724 annually. Option 2: Conduct in house.	Annually, Payment due 8/15 starting in 2014	Not Applicable.				Elect Option 1: Pay an annual fee to Ecology of \$18,724. Option 1 is the most cost effective option for the City because implementing their own monitoring program could be very costly.		\$19,000	Assumes annual pay in program remains the same each year.
8.D	8.7 Source Identification and Diagnostic Monitoring Information Repository	The City has two options for source identification and diagnostic monitoring information repository. They are required to notify Ecology of which option is selected. Option 1: Pay into a collective fund that will cost Burien \$1,736 annually. Option 2: Conduct in house.	Annually, Payment due 8/15 starting in 2014	Not Applicable.				Elect Option 1: Pay an annual fee to Ecology of \$1,736. Option 1 is the most cost effective option for the City because implementing their own monitoring program could be very costly.		\$2,000	Assumes annual pay in program remains the same each year.
Total -Element #8				0	\$0	\$0		0.05	\$4,160	\$32,500	Add staff time to track and coordinate with regional monitoring program.
SWMP Element #9 - Reporting											
9.A&B	9.1 Annual Reports	Submit annual reports each year on the previous year's NPDES Phase II activities. Report includes current SWMP, Annual Report Form (Appendix 3 of Phase II Permit), and applicable supporting documentation. Submit annual report by May 31 each year, electronically using Ecology's WA WebDMR program.	March 31 Each Year, March 31 Each Year	The City has completed each year's annual report and SWMP for submittal to Ecology.			\$5,000	Continue current practice. Submit Annual Reports and SWMPs to Ecology each March (May under new Permit). Submit reports using Ecology's WA WebDMR program, which is available through the Ecology's website.		\$5,000	\$5,000 is allocated for the "Surface Water Management" expenditure line item of the 2011 budget.

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments	
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)		
S9.C.2	9.2 Ongoing Tracking	To support annual report submittal, maintain records of activities completed and implementation status of each element in Elements 1 through 5. Track progress toward meeting minimum performance measures and plans for meeting future permit deadlines.	Ongoing, Ongoing	See Elements #1 through 5 for additional information on activity and program tracking.				See Elements #1 through 5 for additional information on activity and program tracking.				
S9.C	9.3 Maintaining Records	Maintain records of SWMP and permit activities for five years.	Ongoing, Ongoing	See Elements #1 through 8.				See Elements #1 through 8.				
S9.D	9.4 Public Access	Make all records of SWMP and permit activities available to the public at reasonable times during business hours.	Ongoing, Ongoing	See Elements #1 through 8.				See Elements #1 through 8.				
S9.E.4	9.5 LID Barriers	Submit a LID barriers memo with the Annual Report that summarizes the City's identified barriers to the use of LID.	3/31/2011, N/A in New Permit Term	The City identified and measured barriers and gap to the use of LID. The findings were reported to Ecology with the City's 2010 Annual Report.			\$5,000					For more information see the "City of Burien Low Impact Development Implementation Framework" document dated April 2008. \$5,000 is allocated for the "Surface Water Management" expenditure line item of the 2011 budget. This is an existing program element only.
Total -Element #9				0.05	\$5,371	\$10,000		0.05	\$5,000	\$5,000	0.05 FTE is for a portion of the CIP Engineers (0.8 FTE for all 3) allocated to write the Annual Report and SWMP. Continue this level of staffing for the current program.	
SWMP Element #10 - Regional Watershed Planning and ESA												
WRIA 9	10.1 Miller and Walker Stewardship Program	King County currently runs the Miller and Walker Creeks Stewardship Program.	N/A	This Program conducts adult salmon monitoring, a volunteer program conducting stream restoration projects including planting trees and controlling invasive weeds, provides public education presentations, and works towards a healthy basin. The City also conducts basin planning, an IC/IDDE program and has pre-development standards to help improve the health of these two Creeks.			\$76,000	Continue current practice.			\$76,000	\$30,000 is allocated for the "Regional Watershed (wria 9)" expenditure line item and \$46,000 from the "Surface Water Management" expenditure line item of the 2011 budget to support the work of King County and Green/Duwamish Forum. 2011 actual expenditures included \$17,500 for WRIA 9 and \$58,500 for Miller/Walker Creek. Increase expenses = \$76,000.
WRIA 9	10.2 Prioritization of Marine Shorelines of WRIA 9 for Juvenile Salmonid Habitat Protection and Restoration	In May of 2006 King County published a reported titled "Prioritization of Marine Shorelines of WRIA 9 for Juvenile Salmonid Habitat Protection and Restoration."	N/A	This report identified Puget Sound shoreline habitat in southern King County that should be preserved or restored to help salmon, including prioritizing nearshore habitat in Burien that provides important habitat for young salmon after they have left the freshwater streams where they hatched and reared.				Continue current practice.				See Element 10.1 for funding.
WRIA9	10.3 Green/Duwamish & Central Puget Sound Watershed Projects	A list of Green/Duwamish & Central Puget Sound Watershed Projects was published to document projects completed in the watershed from 1998-2009.	N/A	Between 1998-2009 the Green/Duwamish and Central Puget Sound Watershed Ecosystem Form comprised of 16 cities, including Burien, made recommendations to the King Conservation District on watershed protection, restoration and salmon conservation projects to be funded with a portion of the KCD per-parcel assessment and implemented in eligible jurisdictions within the watershed. Projects completed included: -King County Miller Creek Basin Plan (inter-jurisdictional plan for stormwater management, water quality protection and habitat improvements); -City of Burien: Seahurst Park Monitoring 2007 (monitoring to determine success of a 2005 bulkhead and shoreline restoration project); -City of Burien Walker Creek Headwaters Purchase (acquired 21 acres of wetlands to protect them from development); -City of Burien Seahurst Park Nearshore Restoration Monitoring (identified fish use and other habitat elements before construction of site restoration project).				Continue current practice.				See Element 10.1 for funding. In 2009 the Forum made recommendations for ~\$1.19 million in projects, based on the 2009 assessment of \$10 per parcel.
Total -Element #10				0.05	\$5,405	\$76,000		0.10	\$9,000	\$76,000	City budgets \$30K per year to support WRIA 9, but actual expenditures have been \$76K in recent years. 0.05 FTE is for a portion of the CIP Engineers time allocated to coordinate with King County on the WRIA projects. Increase City participation to 0.1 FTE.	
SWMP Element #11 - Underground Injection Control Rule												
WAC 173-218-070 1.a.i-v	11.1 Register Wells	Complete Ecology Registration forms and submit (WAC 173-218-070.1.a.i-v). Information includes: Operator/Owner information; site location; BMPs used to protect groundwater quality, UIC well description; information necessary to demonstrate that the non-endangerment standard (WAC 173-218-080 and WAC 173-218-090) has been met.	February 2, 2009 (WAC 173-218-090.2.a.i)	All publicly owned infiltration facilities have been registered.				Register new publicly owned infiltration facilities as they are built.				

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	
WAC 173-218-070 1.b.i 11.2 Assess Wells	According to WAC 173-218-090.2.a.ii, the approach to conducting the well assessment will be determined by the Owner. The assessment evaluates the potential risks to groundwater from the use of UIC wells. Any assessment that identifies a well as a high threat to groundwater must include a retrofit schedule (WAC 173-218-090.a.iii), and immediate action must be taken to correct the use of a well that is determined to be an imminent public health hazard (WAC 173-218-090.a.iv).	February 2, 2011 (WAC 173-218-090.2.a.ii)	No program in place.				Implement prior to use.				
WAC 173-218-070 1.b.i 11.3 New Well Requirements	Prior to use, new wells must meet the requirements of WAC 173-218-080 and WAC 173-218-090 which call for preventing the movement of fluid containing any contaminant into the groundwater if it may cause a violation of groundwater quality standards. Compliance with the nonendangerment standard can be met through one or a combination of two approaches: presumptive (WAC 173-218-090.1.c.i.A-D) or demonstrative (WAC 173-218-090.1.c.ii.A-E).	N/A	No program in place.				Implement as needed.				
WAC 173-218-070 1.b.ii 11.4 Annual Updates	After initial well registrations have been sent to Ecology, provide an annual update on any well status changes.	N/A	There is no program in place for annually reporting to Ecology on UICs.				Implement as needed annually.				
WAC 173-218-120 11.5 Well Decommissioning	Wells must be decommissioned by filling or plugging the well so that it will not result in an environmental, public health or safety hazard, and will not serve as a channel for movement of water or pollution to the aquifer as specified in WAC 173-218-120.3.b.i-ii). Ecology must be notified 30 days prior to decommissioning wells that pose an imminent public health hazard, otherwise notification must occur within one year of closure.	N/A	No program in place.				Implement as needed.				
Total -Element #11				N/A	N/A	N/A		0.00	\$0	\$0	Staff time is minimal and absorbed into other activities.
SWMP Element #12 - Capital Improvement Program											
12.1: CIP Projects	This element cover stormwater related stormwater related CIP Project design and construction.	N/A	In 2011, the Stormwater Program transferred \$827,500 to the City's CIP program to fund stormwater related projects.			See CIP Analysis	Capital costs are not included in this analysis, as the CIP program varies based on the projects identified in a given year.	Add 400 staff hours		See CIP Analysis	\$827,500 is allocated for the "Operating Transfers Out" expenditure line item of the 2011 budget. See CIP Program analysis for specific expenditures. Additional CIP Dollars may be needed for project implementation. The DMP is being funded out of the Capital Fund.
Total -Element #12				0.40	\$52,879	See CIP Analysis		\$1	\$50,000	See CIP Analysis	The existing SWM Program allocates 0.20 FTE for CIP Engineers and 0.2 for Public Works Director to stormwater related projects. Increase the CIP Engineers allocation to 0.40 FTE to implement the proposed capital improvement program.
SWMP Element #13 - Additional Activities											
13.1 Equipment, Materials and Supplies	This element covers equipment, materials, supplies to the support the SWM Program.	N/A	The City owns their own fleet of O&M equipment.			\$95,000	Continue current practice.			\$165,000	\$30,000 is allocated for the "Shop Remodel" (one time expense) of the 2011 budget. \$115,000 is allocated for the "Machinery & Equipment" expenditure line item of the 2011 budget. \$50,000 is allocated for "Operating Rentals And Leases". Retain existing funding, replacing the \$30K shop remodel line item with a \$100k/year transfer to begin funding a City maintenance facility and/or other shared equipment purchases.
13.2 Program Overhead, Administration and Transfers Out	This element covers Program Overhead, Administration and Transfers Out to the support the SWM Program.	N/A	This element includes Computer Consultant Professional Services, janitorial services at the maintenance shop and expenditures for telephone, dues/memberships, subscription/publication, and printing/binding/copying.			\$75,500	Continue current practice.			\$75,000	From the 2011 budget: \$12,000 ="Janitorial - Shop". \$12,000 ="Office and Operating Supplies". \$1,000 ="Telephone". \$1,000 ="Travel". \$500 ="Dues/Memberships". \$1,500 ="Subscription/Publication". \$1,500 ="Printing/Binding/Copying". \$46,000 = remaining funds from "Surface Water Management" expenditure line item of the 2011 budget. Maintain costs at \$75K annually.
13.3 Professional Services	This element covers Professional Services to the support the SWM Program.	N/A	This element covers unexpected needed professional services during the year.			\$21,000	Continue current practice.			\$25,000	\$1,000 is allocated for the "Professional Services" expenditure line item of the 2011 budget. \$20,000 is allocated for the "Engineering Nonreimb Prof Svcs" expenditure line item of the 2011 budget. Maintain cost at \$25K annually for miscellaneous professional services. See Element 6.1 for NPDES specific professional services.

Requirements			Existing SWM Program Activities (2011)				Future SWM Program Activities (Average Annual 2013-17)				Comments
Stormwater Program Element	Activities/BMPs Needed for Regulatory Compliance (includes new DRAFT NPDES Phase II Permit activities/BMPs in red)	Permit Milestone Date (New Draft Permit in red)	2011 Current Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	Future Activities	Staff FTE	Staff Cost (\$)	Expense (\$)	
13.4 Accounting/Budgeting/ Stormwater Utility	This element covers Accounting/Budgeting/Stormwater Utility to the support the SWM Program.	N/A	This element cover utility services and covers the interest payments for the PWTFL Ambaum Pond Project.			\$72,100	Continue current practice.			\$75,000	\$7,600 is allocated for the "Interest on PWTFL Ambaum Pond" expenditure line item of the 2011 budget. \$2,500 is allocated for the "Utility Services" expenditure line item of the 2011 budget. \$27,000 is allocated for the "County Collection Fee" expenditure line item of the 2011 budget. \$34,000 is allocated for the "Swm Assessment/tax" expenditure line item of the 2011 budget. Allocate \$75,000 in the future SWM Program for Accounting/Budgeting/Stormwater Utility support to the future SWM Program.
13.5 NPDES Permit Fee	The City pays an annual NPDES Permit Fee to Ecology.	N/A				\$10,000				\$10,000	\$10,000 is allocated for the "Surface Water Management" expenditure line item of the 2011 budget for the NPDES Permit Fee.
13.6 Miscellaneous Expenditures	This element covers Miscellaneous Expenditures to the support the SWM Program.	N/A	The City allocates a portion of the SWM Program Fund to miscellaneous expenditures needed to support the program on an annual basis.			\$10,500	Continue current practice.			\$15,000	\$10,500 is allocated for the "Miscellaneous" expenditure line item of the 2011 budget. Allocate \$15,000 for miscellaneous expenditures for the future SWM Program.
Total -Element #13				0.70	\$70,388	\$284,100		1.00	\$84,000	\$365,000	0.50 FTE is for the Department Assistant and 0.20 for the Public Works Director to perform administrative and directive tasks to support the City's stormwater program. In the Future program allocate an additional 0.10 FTE for the Public Works Director and 0.20 FTE for the Department Assitance to implement SWM Program Additional Activities.
			TOTALS*	8.75	\$660,000	\$951,000		11.25	\$942,000	\$1,082,000	
			GRAND TOTAL*	8.75	\$1,611,000			11.25	\$2,024,000		
			GRAND TOTAL GAP*					2.50	\$413,000		

*Does not include annual Capital Improvement Program projects.

Notes

- Required activities are based on the *Western Washington Phase II Municipal Stormwater Permit*, issued January 17, 2007 and modified June 17, 2009.
- Future anticipated requirements based on the DRAFT Proposed Permit issued Fall 2011 with expected implementation date of August 2013.
- "2005 Ecology Manual" and "2012 Ecology Manual" refer to the Washington State Department of Ecology's 2005 and 2012 *Stormwater Management Manual for Western Washington*.

Appendix 4-1: 2005 DMP
CIP Project Status

City of Burien
 Drainage Master Plan
 Project #31760
 Revised: April 25, 2012

2005 Stormwater Drainage Master Plan: CIP Project List

2005 Stormwater Drainage Master Plan: CIP Project List					April 2012 Action
Project ID	Otak ID	Basin	Project Title	Previously Listed Project Cost	
CIP-M03		Miller Creek	SW 132nd Street Flooding	\$26,000	Completed previously.
CIP-M11	1	Miller Creek	SW 155th Street Storm Drain System Improvements	\$61,000	Problem resolved through increased maintenance. No further complaints recorded.
CIP-PS07		Puget Sound	SW 172nd Street Outlet	\$29,000	Problem resolved through increased maintenance. No further complaints recorded.
CIP-S01	2	Salmon Creek	Overflow Replacement at Salmon Creek Bypass	\$51,000	Problem area reviewed: Ongoing Tracking.
CIP-M14	55, 56, 92	Miller Creek	SW 165th Street Drainage System	\$290,000	Problem area reviewed: Rank for CIP.
CIP-M27		Miller Creek	Century Apartments Drainage Systems	\$205,000	Completed previously.
CIP-M28	3	Miller Creek	Drainage System at 129th Street	\$111,000	Problem area reviewed: Ongoing Tracking.
CIP-M01A	4	Miller Creek	New storm drainage system at 1st Avenue S and SW 132nd Street	\$276,000	Problem area reviewed: Maintenance Referral.
CIP-M01B	4	Miller Creek	New storm drainage system at 1st Avenue S and SW 132nd Street	\$670,000	Alternate solution to CIP-M01A. Problem area reviewed: Maintenance Referral.
CIP-M02		Miller Creek	Acquisitions of Local Depressions at 4th Avenue South and S 132nd Street	\$70,000	Improvements to Chelsea Pond conveyance system eliminated need for property purchase.
CIP-M06A		Miller Creek	142nd Street Depression	\$956,000	City completed past project. Additional complaints recorded. Problem area reviewed and categorized as "Rank for CIP."
CIP-M06B		Miller Creek	142nd Street Depression	\$740,000	City completed past project. Additional complaints recorded. Problem area reviewed and categorized as "Rank for CIP."
CIP-M26		Miller Creek	21st Ave SW Storm Drainage System	\$185,000	Completed previously.
CIP-M09	5	Miller Creek	14th Ave South	\$582,000	Problem area reviewed: Maintenance Referral.
CIP-M13		Miller Creek	15th Ave SW Drainage System	\$258,000	Completed previously.
CIP-PS02	6	Puget Sound	30th Avenue SW Outfall Repair	\$200,000	Problem area reviewed: Ongoing Tracking.
CIP-PS04	7	Puget Sound	25th Avenue SW Drainage System	\$662,000	Problem area reviewed: Rank for CIP.
CIP-PS05	8	Puget Sound	Maplewild Avenue SW Drainage System Outlet at SW 156th Street	\$255,000	Problem area reviewed: Ongoing Tracking.
CIP-M07	9	Miller Creek	S 140th Street Horse Pasture	\$384,000	Problem area reviewed: Ongoing Tracking.
CIP-M08		Miller Creek	S 132nd Street Depression	\$518,000	Completed previously.
CIP-M04	10	Miller Creek	Hermes Depression	\$1,885,000	Problem area reviewed: Rank for CIP.
CIP-M20	11	Miller Creek	S 136th Street Wetland Enhancement	\$244,000	Problem area reviewed: Ongoing Tracking.
CIP-M05	10	Miller Creek	Mayfair Depression	\$1,003,000	Combine with CIP-M04. Problem area reviewed: Rank for CIP.
CIP-PS-6	12	Puget Sound	SW 174th Street Storm Drainage System Outlet SW 156th Street	\$692,000	Problem area reviewed: Ongoing Tracking.

2011 Drainage Master Plan: New CIP Projects

	Basin	Project Title		Project Type
	Miller Creek	Master Planning: Hermes Depression, Mayfair Depression, 142nd Street Depression and 132nd Street Drainage	-	Master Plan
		S 136th Street Wetland Enhancement	-	Master Plan
	Arbor Lake	Arbor Lake Monitoring	-	Monitoring Plan
	Miller Creek	Lake Burien Monitoring	-	Monitoring Plan
	Salmon Creek	Salmon Creek Enhancement Plan	-	Watershed Enhancement Plan
	Miller Creek	Miller Creek Enhancement Plan	-	Watershed Enhancement Plan

Appendix 4-2: Drainage Complaint
Ranking and Rating Criteria

City of Burien Drainage Complaints - Rating/Ranking

Prepared by Otak Inc. Updated: 3/21/12

Complaints deleted - 1, 35, 36, 39, 40, 41, 42, 43, 111 (follow-up to #109), 63 (IDDE Problem), 95 (no address, cannot locate/follow-up)

Otak Work (November 2011, updated January 2012)									Otak Work (updated March 2012)										
Otak ID	Date	Source	Address	Related Complaints	Problem Description	Type of Problem - City Defined	City Action/Other Information	Site Visit Conducted?	Categorization	Flood Location	Flood Source	Flood Frequency	Erosion	Water Quality	Habitat	Economic Impact	Complaint History	Total Score	Ranking for CIP
										1.5	1.5	1	1	1.5	1	1	1.5		
88	Jul-11	2011 City Maintenance Staff, 2012 Maintenance Staff	4th Ave SW and SW 158th St	60, 88	None Provided		Site visit was conducted in late 2011. There is an erosion issue and a culvert in need of repair.	√	Potential Capital Project	3	5	3	5	3	3	1	5	36	1
60	12/5/2008	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	15815 4TH AVE SW	60,88	Erosion in his property. Mr Saboe claimed that WD 49 might pour the concrete on his property and it make worse by diverting stream		Scheduled meeting with Kenny and Michael Harres (206-242-8535)												
90	Jul-11	2011 City Maintenance Staff, Public Works Director (2012)	Ambaum - Miller Creek	90, 117, 118, 128	None Provided														
117	7/20/2011 000	Advisory Committee Meeting - Public Surveys	Miller Creek	90, 117, 118, 128	There are water quality issues in Miller Creek. The Creek has experienced significant damage this last winter from 152nd SW south. The speed at which stormwater is entering the creek needs to be looked at as well as the non-point pollution issues.		Received during the AC meeting from Chestine Edgar. A Map was provided of problems areas and can be found in a pdf titled "Comment from Chestine Edgar."	N/A - Regional Plan needed	Potential Capital Project	3	4	2	4	4	3	2	5	35	2
118	7/20/2011 000	Advisory Committee Meeting - Public Surveys	Miller Creek east of Ambaum by Kennedy High School and 136th	90, 117, 118, 128	The creek has not been classified correctly and the required building setbacks in that area are not sufficient. Additionally, there a storm water management issue in that area when the rains are heavy. Something needs to be addressed for stormwater retention in this area. Water quality is an issue in this area also.		Received during the AC meeting from Chestine Edgar. A Map was provided of problems areas and can be found in a pdf titled "Comment from Chestine Edgar."												
128	28-Feb-12	Public Works Director (2012)	NERA Project	90, 117, 118, 128	Funding needed for regional facilities for the NERA.				Potential Capital Project	3	4	2	4	4	3	2	5	35	
87	Jul-11	2011 City Maintenance Staff, 2012 Maintenance Staff	Des Moines Memorial Drive S and S 175th St	38, 87	Beaver Dam		Beaver Decceiver has been installed. Ongoing sediment problem requiring ongoing maintenance. There is flooding of private property, but no flooding of the roadway. A HPA may be needed.	√	Potential Capital Project	5	5	3	2	1	2	2	3	30	3
38	12/14/2007	City Staff Recorded Public Citizen Complaint	Des Moines Memorial Drive	38, 87	Water over roadway		Sam is getting signs put out												
119	1/31/2012	City Staff recorded Public Citizen Complaint 2012 Maintenance Staff	Ambaum Blvd SW and SW 120th Block	No other related complaints identified	Three phone calls were received in the last two weeks of January 2012 reporting water accumulation over the street. When there was an overlay done last year, this area became an issue with water ponding over the northbound lane. There is no drainage nearby to drop in a CB.		Maintenance Manager sent SW Program Manager email on 1/31/12 to ask for advise on how to address this issue.	√	Potential Capital Project	5	5	4	0	0	0	3	5	29.5	4
113	7/20/2011 000	Advisory Committee Meeting - Public Surveys	15240 20th Ave SW	No other related complaints identified	Flooding from Street (20th Ave SW). The untreated water flows into the lake (Lake Burien)		Received during the AC Meeting. Photos were included and can be found in a pdf titled "Photos from Robbie Howell." There is an oil/water separator onsite - maintenance keeps this facility maintained.	√	Potential Capital Project	5	4	4	0	3	0	3	3	29.5	4
10	2005	2005 Stormwater Drainage Master Plan: CIP Project List, 2012 Maintenance Staff	Hermes Depression	10, 19	Private property and right of way flooding around and near the depression. Hermes Depression needs a plan. There is an existing pump, plus a tight lined 18" pipe through private property - may need to build a new stormwater system through public ROW. This a maintenance intensive area.		A new pump station is no longer needed in the Hermes Depression along with a new generator to provide backup power. May need to re-route force main that is currently under residential homes - could be re-routed to 1st Ave.. Possible need for a bypass pipe. Project may require three phases: Master Plan / Pump Station / Rerouting of Force Main; See "new" projects below. The Hermes and Mayfair Depressions are connected - therefore do a joint Master Plan for the two depressions.	√	Potential Capital Project	5	5	3	0	0	0	3	5	28.5	6
19	1/10/2006	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	Mayfair Depression, SW 128TH ST and Ambaum BLVD	10, 19	Received complaint that Mayfair Pond was getting very high.		The Mayfair Depression needs a study. Maintenance crews report sediment accumulation occurs, but no construction CIP is needed at this time. The Hermes and Mayfair Depressions are connected - therefore do a joint Master Plan for the two depressions.												
13	2011	Engineering Staff - 2011, 2012 Maintenance Staff	20th Ave S between S 120th and S 124th St	13, 15	Expiring age of pipe, collapse pipe, broken joint and pipe, sub-standard basin structures		Potential solution: Replace the entire drainage system including 12 CBs, 1,300 LF length of pipe, and new drainage system on the other side of the street.	√	Potential Capital Project	5	5	3	0	0	0	3	5	28.5	6
15	2011	Engineering Staff - 2011, 2012 Maintenance Staff	20th Ave S from S 120th Ave S to 124th Ave	13, 15	Failed stormwater pipe.														
55	10/14/08	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	SW 165th St between 16th Ave SW and 19th Ave SW	55, 56, 92	Christie M. wanted to know the latest action from the City regarding to a flooding on SW 165th St		Site visit and bring her concern to Samir and HK. There is no existing stormwater system in this area. The road is collapsing.												
56	10/22/08	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	1604 SW 165th Street	55, 56, 92	Concern about the backyard flooding		will request VDO inspection	√	Potential Capital Project	5	3	3	3	0	0	3	5	28.5	6
92	Jul-11	2011 City Maintenance Staff, 2012 Maintenance Staff	SW 165th St and 16th Ave SW - 19th Ave SW	55, 56, 92	flooding														

City of Burien Drainage Complaints - Rating/Ranking

Prepared by Otak Inc.

Updated: 3/21/12

Complaints deleted - 1, 35,36,39,40,41,42,43, 111(follow-up to #109), 63 (IDDE Problem), 95 (no address, cannot locate/follow-up)

Otak Work (November 2011, updated January 2012)									Otak Work (updated March 2012)										
Otak ID	Date	Source	Address	Related Complaints	Problem Description	Type of Problem - City Defined	City Action/Other Information	Site Visit Conducted?	Categorization	Flood Location	Flood Source	Flood Frequency	Erosion	Water Quality	Habitat	Economic Impact	Complaint History	Total Score	Ranking for CIP
										1.5	1.5	1	1	1.5	1	1	1.5		
17	1/10/2006	City Staff Recorded Public Citizen Complaint	607 SW 135TH ST	17, 104, 106	Has a lot of water by her house and says she cant park there cause there is too much. Wants some gravel or something so she can park there. I had Ken Thurman stop by and he said that she just has a low spot in the shoulder next to her house. There seems to be a bit of water coming thru the gravel from the neighbors house that she says has always been there. The road is pretty flat there and there may have been ditches there historically that were filled Ken thinks.		There is no existing drainage system. Public water onto private water.	√	Potential Capital Project	5	3	3	3	0	0	3	5	28.5	6
104	4/1/2011 14:18	City Staff Recorded Public Citizen Complaint	SW 135th St. & 8th Ave SW	17, 104, 106	Water coming up out of the shoulder between the street and the gravel on SW 135th Street on the south side about 3 houses from 8th Avenue SW (she did not specify which direction).	Erosion Damage	Groundwater - 300' of pipe.												
106	4/4/2011 14:30	City Staff Recorded Public Citizen Complaint	645 SW 135TH ST	17, 104, 106	Water is coming up out of the shoulder. It's not from storm drainage and I called water dist. 20 to have someone come out and they said it's not their water line either.	Surface water run-off issue													
82	Jul-11	July Public Survey	648 SW 152nd St	82, 50, 93	Critical areas issue. Two existing problems. #1. Storm drain at the corner of 152nd and 8th ave SW backs up when there is a constant heavy rainfall which then backs up into the drain on 8th Ave. SW. Which then backs up the alley drain and then comes into our business through the back doors. This rain floods our building at least once each year and sometimes up to four. This has been a problem since purchasing the building in 1989. It has been brought to the attention of the city many times and I have been told it is my problem. #2. There was a new street laid on 152nd st. and when it was made the water now accumulates in front of our businesses (at least 5 of us) at the rear of our cars. For most this would not be a problem, but our business requires us to CONSTANTLY be loading things in and out of customers cars at the rear of their cars. It is extremely annoying.		Water flowing onto private property from city street, Standing water, Water over road or sidewalk impacting vehicles or pedestrians. Otak suggests the City needs to follow-up with the person who made the complaint in the July Public Survey.	√	Potential Capital Project	3	5	3	0	0	0	5	5	27.5	11
50	10/06/08	City Staff Recorded Public Citizen Complaint	15008 8th SW	82, 50, 93	Backwater from ROW drainage		Site Visit												
93	6/3/2010 13:01	City Staff Recorded Public Citizen Complaint	825 SW 152ND ST	82, 50, 93	Flooding in public parking at SE corner of T intersection SW 152nd St & 8th Ave SW	Surface water run-off issue													
25	11/6/2006	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	SW 141 st Street	25, 26, 27, 85	Yard is flooding		SW 142 nd Street flooding is severe. Roads have been closed												
26	11/6/2006	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	SW 142 nd Street	25, 26, 27, 85	Water is running from the street into her garage and under her house. The drain in her driveway cannot handle the street runoff.		SW 142 nd Street flooding is severe. Roads have been closed. No outlet - not enough capacity.	√	Potential Capital Project	4	5	1	0	1	0	3	5	26.5	12
27	11/6/2006	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	SW 142 nd Street	25, 26, 27, 85	Pond is full and water is bubbling out the pipe above it - worried that it will flood.		1:06 - All roads to the depression have been closed.												
85	7/1/2011	2011 City Maintenance Staff, 2012 Maintenance Staff	142nd St Depression	25, 26, 27, 85	None Provided														
86	Jul-11	2011 City Maintenance Staff, 2012 Maintenance Staff	Des Moines Memorial Drive S and S 116th St - S 118th St	No other related complaints identified	Private, public, to private system. Flood in December 2010		City maintenance crews report that public water drains to private property and back to public right-of-way.	√	Potential Capital Project	5	5	3	0	0	0	3	3	25.5	13
105	4/4/2011 8:33	City Staff Recorded Public Citizen Complaint	12833 Occidental Avenue South	105, 103	Emily reports that the water comes in off the street and is pooling in their yard at 12833 Occidental Avenue South.	Surface water run-off issue	AMM Comment: One block over from #65 and 108, but likely a joint solution or maybe a need to clean all ditch systems in this area.												
103	3/29/2011	City Staff Recorded Public Citizen Complaint	12455 2nd Ave S	105, 103	Hi Larry -One more thing that I need to ask you about. At 12455 2nd Ave.S Burien Wa 98168 there is a house with a gravel parking strip with no drainage. Our street has a combination of drainage ditches and graveled parking strips with catch basins. This house and the house directly North of it have no catch basins on their graveled parking strip that result in a giant puddle that when it rains extends out to the middle of the road. There is always a giant puddle(20 by 10 feet) here but sometime it	Surface water run-off issue		√	Potential Capital Project	4	5	3	0	0	0	1	5	25	14
80	Jul-11	July Public Survey	14639 25th AVE SW	No other related complaints identified	Critical areas issue. water collected over several blocks pours into the park, contributing to slides below on the slope near the beach		Water flowing onto private property from city street. The slides affect both the park and adjacent property. The water should be channeled to the beach rather than infiltrate the steep slope. It is piped there from an area of many blocks. This problem is located on Parks Property.	√	Potential Capital Project	5	5	2	4	2	0	0	0	24	15
7	2005	2005 Stormwater Drainage Master Plan: CIP Project List	25th Avenue SW Drainage System	No other related complaints identified	Erosion and sedimentation of streams 0367 and 0368.		A new stormwater system is needed.	N/A - Use design from 2005 Plan	Potential Capital Project	3	3	1	5	3	0	0	3	24	15
125	2/16/2012	City Staff - Maintenance Crew, 2012 Maintenance Staff	116th Ave SW between 1st Ave SW and 4th Ave SW	No other related complaints identified	There is a 30" pipe that drains to an existing ditch (City has a 10' easement) adjacent to a church parking lot that abruptly ends. Water disperses into a forested area then drains to an existing pipe and then into an existing detention pond. The dispersion into the wooded area causes the water to slow down and silt up behind the existing pipe. Maintenance crews have to clean out the pipe often. This is a reoccurring problem.			√	Potential Capital Project	0	0	0	5	5	0	2	5	22	16
48	39701	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	16521 4th Ave S	No other related complaints identified	No adequate drainage at the Blake Manor neighborhood. There is no drainage on 4th Ave S. The road is flat and there is standing water in the road.		Site Visit	√	Potential Capital Project	5	5	2	0	0	0	0	3	21.5	17
127	2/28/2012	2012 City Maintenance Crews	Arbor Lake	No other related complaints identified	Arbor Lake is owned by the Park's Department. There are water quality issues in the lake including algae blooms and no swimming warnings in the summer.			√	Potential Capital Project	0	0	0	0	5	5	3	3	20	18

City of Burien Drainage Complaints - Rating/Ranking

Prepared by Otak Inc. Updated: 3/21/12

Complaints deleted - 1, 35,36,39,40,41,42,43, 111(follow-up to #109), 63 (IDDE Problem), 95 (no address, cannot locate/follow-up)

Otak Work (November 2011, updated January 2012)									Otak Work (updated March 2012)										
Otak ID	Date	Source	Address	Related Complaints	Problem Description	Type of Problem - City Defined	City Action/Other Information	Site Visit Conducted?	Categorization	Flood Location	Flood Source	Flood Frequency	Erosion	Water Quality	Habitat	Economic Impact	Complaint History	Total Score	Ranking for CIP
										1.5	1.5	1	1	1.5	1	1	1.5		
23	11/6/2006	City Staff Recorded Public Citizen Complaint	S. 160 th Street	No other related complaints identified	Water building up – her son is trying to pump it back.		2:11 – needs drainage investigation long-term. CB appears to be badly plugged but on private street.		Ongoing Tracking									0	
6	2005	2005 Stormwater Drainage Master Plan: CIP Project List	30th Avenue	No other related complaints identified	Beach erosion due to storm drainage system outfall with no energy dissipation. Potential erosion of coastal bluff due to damaged storm drain line.		Follow-up needed to determine current CIP needs. Expand/redesign an existing energy dissipater at the outfall.		Ongoing Tracking									0	
11	2005	2005 Stormwater Drainage Master Plan: CIP Project List	S 136th Street	No other related complaints identified	Lack of LWD, limited stream buffers, bank hardening, lack of gravel and limited estuary area.		Combine with S 136th Street Wetland Enhancement Master Planning JC: Is this on Miller Creek? Look up old CIP Details.		Ongoing Tracking									0	
77	Jul-11	July Public Survey	15826 16th Ave. S.W.	77, 96	Stream or Ditching Issue. Purchased home from builder who was denied permit to put down drain pipe from north end of property to south end of property and putting down a parking strip on top. Most all of my neighbors storm sewers are covered (grass, gravel, & blacktop). 1.) Ditch sides are "very steep" and extremely hard to maintain. 2.) Water running down street flows towards my ditch washing out the edges of my driveway. 3.) Ditch is lower than neighbors causing standing water that does not drain.		Water flowing onto private property from city street, Standing water. 1.) Standing water in ditch is breeding ground for mosquitoes in warm weather, West Nile Virus is a concern. 2.) Mowing grass is dangerous due to depth & slope. City staff to follow up with person making the complaint.		Ongoing Tracking									0	
96	3/3/2011 15:59	City Staff Recorded Public Citizen Complaint	15838 16TH AVE SW	77, 96	City's storm drain pipe was very deep from the surface near his driveway	Check Gravity Main													
8	2005	2005 Stormwater Drainage Master Plan: CIP Project List	Maplewild Avenue at SW 156th Street	No other related complaints identified	Beach erosion due to storm drainage system outfall with no energy dissipation. Potential erosion of coastal bluff due to damaged storm drain line.		New stormwater system with new outfall is needed.		Ongoing Tracking									0	
12	2005	2005 Stormwater Drainage Master Plan: CIP Project List	SW 174th Street and SW 156th Street	No other related complaints identified	Potential erosion of coastal bluff and damage to existing residential structures due to damaged storm drain line.		Follow-up needed to determine current CIP needs.		Ongoing Tracking									0	
2	2005	2005 Stormwater Drainage Master Plan: CIP Project List	Salmon Creek Bypass	No other related complaints identified	Culvert is a partial fish barrier.		Nothing has been completed to date on this project. Follow-up to determine current CIP needs.		Ongoing Tracking									0	
3	2005	2005 Stormwater Drainage Master Plan: CIP Project List	129th Street	No other related complaints identified	Stormwater system is failing.		System on private property needs replacement, upgrade, and easement acquisition; good project for the annual replacement program.		Ongoing Tracking									0	
9	2005	2005 Stormwater Drainage Master Plan: CIP Project List, 2012 Maintenance Staff	1022 S 140th Street	No other related complaints identified	Potential private property flooding as additional impervious areas are created upstream due to insufficient hydraulic capacity in the existing drainage system. There is a 36" concrete pipe and a depression on the road.		No recent complaints. Conduct further investigations. - As of February 2012, this is no longer the case. This is still a problem reported by the maintenance staff.		Ongoing Tracking									0	
72	Jul-11	July Public Survey	831 SW 134th St	No other related complaints identified	The entire street floods at that point		Water flowing onto private property from city street, Standing water, Water over road or sidewalk impacting vehicles or pedestrians, Flooding of yards or homes. There is no existing drainage system. Low point in the road needs a drainage system.	√	Private Issue	5	3	3	3	0	0	3	5	28.5	6
126	28-Feb-12	2012 Maintenance Staff	11232 21st Ave SW	No other related complaints identified	Flooding of public water on to private property.		This is a private issue - private water drains onto private property.	√	Private Issue									0	
58	11/12/2008	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	16218 16th Ave SW	No other related complaints identified	Water from alley flow into driveway. This a private issue - the source of surface water runoff is the alley, which is privately owned.		Field visit (11/12/08), Call leave message (11/13/08), sent out BMP		Private Issue										
129	2/28/2012	2012 Maintenance Staff	S. 116th Pl and 30th Ave SW	No other related complaints identified	Public water to private water and back to public water through an existing cul-de-sac that has an existing bioswale. There are houses on steep slopes. The sewer main is broken and has taken house down the hills. A study is needed. This may be a private issue?		This location was to be designed by the City two years ago. Depending on design, the City may be able to do in house. Otak needs a copy of the design to determine an appropriate cost estimate. Past review by attorney indicated that this is a private issue. Drainage pattern matches natural flow path. Private owner is responsible for accepting and passing City water through her the property.		Private Issue										
24	11/6/2006	City Staff Recorded Public Citizen Complaint	SW 130 th Street	67, 112	Basement is flooding		Given to Daniel & Ramesh. UPDATE: 10:40: Richard heading in that direction now.	Location could not be identified	Private Issue									0	
67	4/29/2009	City Staff Recorded Public Citizen Complaint	14922 S 132nd St	67, 112	Flooding in his property		Request meeting with Drainage Engineer		Private Issue										
131	2/28/2012	2012 Maintenance Staff	SW 140th and 17th Ave SW	No other related complaints identified	Private road that serves 10 properties has a failed stormwater system. The City has done maintenance in the area, but private property owner has not replaced the aging system.		This is a private issue.		Private Issue									0	
16	1/10/2006	City Staff Recorded Public Citizen Complaint	1051 SW 149TH ST	No other related complaints identified	Has a lot of water in the ground in backyard bad says that he found a clay pipe in his backyard last summer. Wants to know what it is. Neighbor says it is her irrigation line? I think he wants to know if it is a pipe he can get rid of if its bringing more water to his yard from a neighbor.				Private Issue									0	

City of Burien Drainage Complaints - Rating/Ranking

Prepared by Otak Inc.

Updated: 3/21/12

Complaints deleted - 1, 35, 36, 39, 40, 41, 42, 43, 111 (follow-up to #109), 63 (IDDE Problem), 95 (no address, cannot locate/follow-up)

Otak Work (November 2011, updated January 2012)									Otak Work (updated March 2012)										
Otak ID	Date	Source	Address	Related Complaints	Problem Description	Type of Problem - City Defined	City Action/Other Information	Site Visit Conducted?	Categorization	Flood Location	Flood Source	Flood Frequency	Erosion	Water Quality	Habitat	Economic Impact	Complaint History	Total Score	Ranking for CIP
										1.5	1.5	1	1	1.5	1	1	1.5		
47	09/03/08	City Staff Recorded Public Citizen Complaint	467 S 190th St	No other related complaints identified	Sink hole in owner's backyard near bioswale		Site Visit		Private Issue									0	
74	Jul-11	July Public Survey	12017 24th Ave S	No other related complaints identified	Culvert/drainage pipe		There is a concrete pipe that someone put a corrugated plastic pipe inside. Also, the pipe system has an opening and an angle change that is impossible for me to correct. I just want help to correct this problem! It requires heavy equipment that can only access from the stormwater pond parcel. City staff should follow up with the person making the complaint.		Private Issue									0	
49	09/30/08	City Staff Recorded Public Citizen Complaint	1457 SW 150th	No other related complaints identified	Concerning about runoff from Driveway at 1451 SW 150th		Site Visit		Private Issue									0	
76	Jul-11	July Public Survey	16040 14th Ave SW	No other related complaints identified	rain runs down back yard problems with basement flooding.		Water flowing onto private property from city street, Flooding of yards or homes		Private Issue									0	
57	11/12/2008	City Staff Recorded Public Citizen Complaint	156th Ave & 1st Ave S	No other related complaints identified	Parking lot flooding		Give the City SWM map to maintenance crew	√	Private Issue									0	
115	7/20/2011 0900	Advisory Committee Meeting - Public Surveys	15714 15th Pl SW	75, 115	Backyard flooding on the south side of Lake Burien.		Received during the AC Meeting. Photos were included and can be found in a pdf titled "Photos from Robbie Howell."		Private Issue									0	
52	10/07/08	City Staff Recorded Public Citizen Complaint	148 18th AVE SW	No other related complaints identified	Two Storm Drain		Site Visit		Not Enough Information									0	
5	2005	2005 Stormwater Drainage Master Plan: CIP Project List	14th Ave South	5, 31, 66, 89 (?)	Private property flooding due to damaged storm drainage system.		Keep this project on list.												
31	12/14/2007	City Staff Recorded Public Citizen Complaint	14 th Avenue South	5, 31, 66, 89 (?)	Swale is not working – overflowing		Dan Bath assigned. Swale is operating as planned, simply over-capacity.	√	Maintenance Referral									0	
66	4/28/2009	City Staff Recorded Public Citizen Complaint	1228 S 132nd St	5, 31, 66, 89 (?)	Flooding property		HK, Sam, Ken will meet with property owner												
89	7/1/2011	2011 City Maintenance Staff	14th Ave S and S 132nd St	5, 31, 66, 89 (?)	None Provided														
122	2/1/2012	City Council Member via Public Works Director	Ambaum & 142nd	122, 123, 124, 130	There is a puddle at the intersection. Need a CB installed to collect the water.		A City Council member submitted photos to the Public Works Director to document this problem.												
123	2/1/2012	City Council Member via Public Works Director	Ambaum & 146th	122, 123, 124, 130	There is a puddle at the intersection. Need a new CB added to the existing stormwater system installed to collect the water.		A City Council member submitted photos to the Public Works Director to document this problem.	√	Maintenance Referral									0	
124	2/1/2012	City Council Member via Public Works Director	Ambaum & 148th	122, 123, 124, 130	There are puddles along the street curb.		A City Council member submitted photos to the Public Works Director to document this problem.												
130	3/19/2012	2012 Maintenance Staff	Ambaum & 140th through 148th	122, 123, 124, 130	The problem on Ambaum has had bubbling catch basins from 140 th to 146 th (roughly).		This problem could be because Ambaum drains to the 142nd Depression.												
81	Jul-11	July Public Survey	12244 22nd Ave S	No other related complaints identified	After a rain event, storm water drains from street down my graded driveway (eventually puddling around the south east corner of the house). I have added more gravel to level the area off and provide drainage, but the problem persists. Possible		Water flowing onto private property from city street. City maintenance crews will pave a berm to direct water to the nearest CB.		Maintenance Referral									0	
79	Jul-11	July Public Survey	410 SW 139th Street	No other related complaints identified	Critical areas issue. consistently standing water causing a hazard to pedestrians and bicyclers crossing the street as well as to drivers turning right from 4th Ave onto 139th Street South and drivers going west on 139th street crossing 4th Ave.		Standing water. Nonfunctioning storm drainage. Water over road or sidewalk impacting vehicles or pedestrians. Maintenance crews will fix this issue by installing a new CB and tie it into the existing system.		Maintenance Referral									0	
97	3/14/2011 10:41	City Staff Recorded Public Citizen Complaint	1028 S 117th St	No other related complaints identified	Street runoff missed storm drain & run into his property down S 116th St to S 117th St	Surface water run-off issue			Maintenance Referral									0	
61	1/13/2009	City Staff Recorded Public Citizen Complaint	345 S 184th St	No other related complaints identified	Runoff did not drain to ditch but on the road		Will visit the site during raining again, berm or new CB might be a solution		Maintenance Referral									0	
108	4/5/2011 14:40	City Staff Recorded Public Citizen Complaint	12846 2nd Avenue South	No other related complaints identified	He says when it rains the ditch overflows and runs down his driveway almost into his house. Please check it out and have it cleaned.	Ditch Back-up	SWM Maintenance crew will grade ditch to fix the problem.		Maintenance Referral									0	
84	Jul-11	2011 City Maintenance Staff	S 160th St and 1st Ave S	No other related complaints identified	Northbound on 1st Ave S				Maintenance Referral									0	
4	2005	2005 Stormwater Drainage Master Plan: CIP Project List, 2012 Maintenance Staff	1st Avenue S and SW 132nd Street, Local Depressions at 4th Avenue South and S 132nd Street, 1st Avenue S and SW 132nd Street,	No other related complaints identified	Private property and right of way flooding around and near the depression.		Whatney Property There is an issue with yard flooding and some flooding of homes during the 100-year+ storm event. Purchase additional property, design infiltration pond, and pipe water to the new facility. Maintenance crews can grad this ditch so that it has proper flow.	√	Maintenance Referral									0	
75	Jul-11	July Public Survey	1808 SW 156th	75, 115	Critical areas issue. storm drain drains into Lake Burien and frequently it functions poorly and does not sequester the oils and other pollutants. It is a poor quality separator. Over the years it has backed up or overflowed.		Water flowing onto private property from city street, Nonfunctioning storm drainage, Flooding of yards or homes. fairly large quantities of water flowing onto private property Below: I am blind and do not have photos. NOTE ALSO that on 152nd between 10th and 18th, there are large quantities of pollutants that wash into the lake.	√	Maintenance Referral									0	
107	4/5/2011 14:34	City Staff Recorded Public Citizen Complaint	112 SW 157th Street	No other related complaints identified	The large area where the road meets their parking lot that keeps eroding or sinking so that people are bottoming out when they pull into the lot. This is at 112 SW 157th Street and she says that there is quite a pond that forms there whenever it rains.	Erosion Damage	This is a paving issue - can be completed by the Street Department.	√	Maintenance Referral									0	
62	1/16/2009	City Staff Recorded Public Citizen Complaint	15855 11th Ave SW	62, 83, 116	- Flooded house due to clogged catch basin on the driveway - Sand from the street to her catch basin - Asked asphalt berm on her property		Maintenance crews can pave a berm to redirect the water.												
83	Jul-11	July Public Survey	15648 11 ave sw	62, 83, 116	Stream or Ditching Issue. The drain itself location does not catch correct. It pushes the water to the street, then gravel in parking strip keep in street, which in turn my drain not correct so on down the street on 11th SW What it does is push the gravel down the street, drains not utilized.		Water flowing onto private property from city street, Nonfunctioning storm drainage. Maintenance crews can lower the existing CB.		Maintenance Referral									0	

City of Burien Drainage Complaints - Rating/Ranking

Prepared by Otak Inc.

Updated: 3/21/12

Complaints deleted - 1, 35,36,39,40,41,42,43, 111(follow-up to #109), 63 (IDDE Problem), 95 (no address, cannot locate/follow-up)

Otak Work (November 2011, updated January 2012)									Otak Work (updated March 2012)										
Otak ID	Date	Source	Address	Related Complaints	Problem Description	Type of Problem - City Defined	City Action/Other Information	Site Visit Conducted?	Categorization	Flood Location	Flood Source	Flood Frequency	Erosion	Water Quality	Habitat	Economic Impact	Complaint History	Total Score	Ranking for CIP
										1.5	1.5	I	I	1.5	I	I	1.5		
116	7/20/2011 0000	Advisory Committee Meeting - Public Surveys	152nd SW, 20th SW 155th SW 158th, 11th SW, 10th SW, 9th SW and 149th SW.	62, 83, 116	Street flooding programs and standing water problems.		Received during the AG meeting from Christine Edgar. A Map was provided of problems areas and can be found in a pdf titled "Comment from Christine Edgar."												
78	Jul-11	July Public Survey	14626 12th Avenue SW	No other related complaints identified	localized flooding occurred this last fall during heavy rains. Flooding is about midway down towards right side of property and covered the sidewalk between row of shrubs and grass adjacent to street. Deepest area of flooding was 3-4".		Water over road or sidewalk impacting vehicles or pedestrians, Flooding of yards or homes		Maintenance Referral									0	
71	Jul-11	July Public Survey	1458 SW 152nd St	No other related complaints identified	Flooding of side yard. In fall and winter months. Water flowing out from curb on East side of 16th.		Nonfunctioning storm drainage, Water over road or sidewalk impacting vehicles or pedestrians, Flooding of yards or homes		Maintenance Referral									0	
101	3/18/2011 13:47	City Staff Recorded Public Citizen Complaint	2844 SW 167th Pl	No other related complaints identified	Check gravity main.	Check Gravity Main			Maintenance Referral									0	
102	3/24/2011 11:20	City Staff Recorded Public Citizen Complaint	411 S 164TH ST	No other related complaints identified	Underground water reportedly found by Brian. Water District 49 near the incident address.	Check Gravity Main			Maintenance Referral									0	
91	Jul-11	2011 City Maintenance Staff	1st Ave and 163rd St pond	No other related complaints identified	None Provided		Check on site visit in Feb 2012.		Maintenance Referral									0	
73	Jul-11	July Public Survey	1032 sw 150th	No other related complaints identified	Stream or Ditching Issue. Needs gravel and packing.		Standing water, Nonfunctioning storm drainage, Water over road or sidewalk impacting vehicles or pedestrians, Flooding of yards or homes		Maintenance Referral									0	
64	2/6/2008	City Staff Recorded Public Citizen Complaint	1058 SW 150th St Mailing address: 1210 SW 152nd St, Burien. 98166	64, 68	Claiming flooding from city street into her basement.		Field visit. System was cleaned in 2009.												
68	5/5/2009	City Staff Recorded Public Citizen Complaint	1058 SW 150th St	64, 68	Claiming flooding from city street into his basement		Field visit, photos taken, telling him that flooding occurred in private property. His property located at a low point All drainage structures cleaned a few month ago. He contacted HK for wanting immediate response. He still believed the problem descriptions, Vector completed on 5/7/2009. System was cleaned in 2009.		Completed									0	
51	10/06/08	City Staff Recorded Public Citizen Complaint	16048 9th AVE SW	No other related complaints identified	Neighbor filled the ditch		Site Visit		Completed									0	
69	5/29/2009	City Staff Recorded Public Citizen Complaint	2323 SW 172nd St	No other related complaints identified	Runoff overflow into their property		Field check on 5/28/2008		Completed									0	
120	2/1/2012	City Council Member via Public Works Director	21st & 156th		No existing stormwater system. There is puddling along 21st.		A City Council member submitted photos to the Public Works Director to document this problem. Maintenance crews will monitoring - there are existing ditches at this location.		Maintenance Referral									0	
121	2/1/2012	City Council Member via Public Works Director	152nd & 18th		There is a puddle at the intersection of 152nd & 18th. There is an existing CB at the intersection.		A City Council member submitted photos to the Public Works Director to document this problem. Paving issue - Street Department will make the repairs.		Maintenance Referral									0	
94	1/7/2010 10:15	City Staff Recorded Public Citizen Complaint	12029 26TH AVE SW	No other related complaints identified	Claiming that existing CB did not collect street runoff leading to flooding into private property and eroding existing retaining wall	Surface water run-off issue			Maintenance Referral									0	
65	4/6/2009	City Staff Recorded Public Citizen Complaint	12841 2nd Ave S	No other related complaints identified	Sinking hole water coming out and flooding into her property		Field visit on 4-6-2009, will schedule VDO inspection on 3-15-2009		Completed									0	
30	12/14/2007	City Staff Recorded Public Citizen Complaint	12 th Avenue SW	No other related complaints identified	Street runoff is overflowing her driveway drain. Would like to talk to King County vector crew.		Called Ken @ 12:56 pm. Sam dug a trench in the shoulder and rerouted the water so it won't go into her garage. She will need sandbags.		Completed									0	
98	3/14/2011 10:46	City Staff Recorded Public Citizen Complaint	11844 12th Ave S	No other related complaints identified	Exposed pipe & Drain Washout	Check Gravity Main			Completed									0	
20	11/6/2006	City Staff Recorded Public Citizen Complaint	6 th Avenue South	No other related complaints identified	Silt from Cedarhurst is running down street and into yards. Flooding house				Completed									0	
109	4/11/2011 15:38	City Staff Recorded Public Citizen Complaint	1407 sw 143rd st	No other related complaints identified	Ditching the ditch request	Check Gravity Main	Meet with Steve Hopkins on Friday 5/31 at 8am to look at the work he wants to have done on the ditch in front of his house.		Completed									0	
114	7/20/2011 0000	Advisory Committee Meeting - Public Surveys	1431 SW 152nd St	No other related complaints identified	Flooding from 152nd clogged and inadequate Burien stormwater drainage system. The untreated water flows into the Lake Burien.		Received during the AG Meeting. Photos were included and can be found in a pdf titled "Photos from Robbie Howell."		Completed									0	
100	3/18/2011 13:45	City Staff Recorded Public Citizen Complaint	531 S 137th pl	No other related complaints identified	Check gravity main.	Check Gravity Main	GM inspection request.		Completed									0	

City of Burien Drainage Complaints - Rating/Ranking

Prepared by Otak Inc. Updated: 3/21/12

Complaints deleted - 1, 35,36,39,40,41,42,43, 111(follow-up to #109), 63 (IDDE Problem), 95 (no address, cannot locate/follow-up)

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Otak ID	Date	Source	Address	Related Complaints	Problem Description	Type of Problem - City Defined	City Action/Other Information	Site Visit Conducted?	Categorization	Flood Location	Flood Source	Flood Frequency	Erosion	Water Quality	Habitat	Economic Impact	Complaint History	Total Score	Ranking for CIP
										1.5	1.5	1	1	1.5	1	1	1.5		
70	7/16/2009	City Staff Recorded Public Citizen Complaint	2335 SW 116 th St	70, 110	Puddling on the street. The property owners asked installation of a CB or overlay. Issued originally to Daniel Bretzky and Samir B.		HK visited the site, met De Eda (206-268-0633), Terry Joggins, Colleen Webster. Inform to Samir AMM Comment: if this is a maintenance referral, is the problem at 2223 SW 114th a similar issue that can be addressed at the same time?		Completed									0	
110	5/16/2011 9:55	City Staff Recorded Public Citizen Complaint	2223 sw 114th st	70, 110	Flooding. want to check if we have any solutions or recommendations for her	Surface water run-off issue													
18	1/10/2006	City Staff Recorded Public Citizen Complaint, 2012 Maintenance Staff	4TH AVE SW between 146TH and 148TH	No other related complaints identified	the depression on 4th AVE SW between 146th ST and 148th ST flooded. King County crews unclogged the basins along the west side of 4th. Lanes were temporarily closed.				Completed									0	
112	6/3/2011 16:23	City Staff Recorded Public Citizen Complaint	13226 4th Ave S	No other related complaints identified	Ditch check	Check Gravity Main		√	Completed									0	
99	3/14/2011 10:47	City Staff Recorded Public Citizen Complaint	16025 25th Avenue SW	No other related complaints identified	Mr. Sharkey reports that a depression is forming in the roadway and his rockery has shifted a bit because of it.	Erosion Damage	No existing drainage system; a new system needs to be installed. This has been completed by the Street Department.	√	Completed									0	
14	2011	Engineering Staff - 2011	17225 Ambaum Blvd S	No other related complaints identified	The runoff from the City's drainage system at the discharge point (DC6898)-near 17225 Ambaum Blvd S, has not been discharged well. There is also a shoulder erosion problem nearby. It was reported that these problems have been going on in the past few years. This discharge point is collected the runoff from the street and shoulder of street on Ambaum Blvd S from S. 170 th St to S 173 rd Pl. Most of street and shoulder runoff on easterly side of Ambaum Blvd S going into our storm drain system. Also, the discharge point DC6898 (outlet) is at least 1.5 feet below existing ground level of the wetland; as a result, the runoff trends to stand near the point, which leads to sometimes having high water level in CB3923 or backup runoff. The level of the wetland downstream may also have higher elevation than the discharge point.		Perform wetland enhancement or mitigation. Since this wetland belongs to private, it may need to get a drainage easement from property owner. It was estimated per our GIS map that the length of this wetland to where the runoff finally meet the Walker Creek was 530 ft. The appropriate environmental permits are required. Shoulder or drainage works are also part of these scopes to reduce existing erosion problems or to increase the capacity of the systems		Completed									0	
21	11/6/2006	City Staff Recorded Public Citizen Complaint	8 th Avenue SW	21, 46	Sam reports that water is by-passing the drains and they will need sandbags or some way to divert the water.		Sam & Richard sent out to this location. Unplugged culvert – water is bypassing catch basin – built in WRONG location.		Completed									0	
46	12/14/2007	City Staff Recorded Public Citizen Complaint	8 th Avenue SW	21,46	Water is missing the ditch and eroding around mailboxes		Dan checked it out – no flooding problem but needs to have erosion problem fixed. E-mailed to Daniel to attend to after storm event is over.												
22	11/6/2006	City Staff Recorded Public Citizen Complaint	Des Moines Memorial Drive	No other related complaints identified	Water coming off of Moshier Field into the back of her "C" Building – units are starting to flood		Dan/Mike sent to this location. UPDATE: 10:48 a.m.: Myron is out there with sandbags to alleviate the problem.		Completed									0	
28	11/6/2006	City Staff Recorded Public Citizen Complaint	Sylvester Road SW	Maybe related: 28, 45	Water running into the yard/house of a 94-year old man. Linda is his "watcher".		Small berm put in; FD will check into bagging the driveway.		Completed									0	
45	12/14/2007	City Staff Recorded Public Citizen Complaint	Sylvester Road SW	Maybe related: 28, 45	Water is building up on 8 th Place SW		Sam & Richard sent out to this location												
29	12/14/2007	City Staff Recorded Public Citizen Complaint	Shorecrest Drive SW	No other related complaints identified	Water bubbling up from CB		Daniel inspected; normal storm flow, CB overwhelmed by not clogged		Completed									0	
32	12/14/2007	City Staff Recorded Public Citizen Complaint	15 th Avenue SW	No other related complaints identified	Yard is flooding		Dan/Richard sent there.		Completed									0	
33	12/14/2007	City Staff Recorded Public Citizen Complaint	30 th Avenue SW	No other related complaints identified	Concerned about water going down 30 th Avenue SW and flooding at the bottom. Drain that was installed is too high and water is just going around it and down the hill		John O out to check on it @ 11:02. 12:02 – John checked it out and all is OK, some water going past CBs, but entering them further down the road.		Completed									0	
34	12/14/2007	City Staff Recorded Public Citizen Complaint	4 th Avenue South	No other related complaints identified	Water coming down hill into her yard.		Ken will check it out. Trench was dug to relieve water runoff		Completed									0	
37	12/14/2007	City Staff Recorded Public Citizen Complaint	8 th Place SW	No other related complaints identified	8 th Place is overflowing. She checked drains and cleared leaves. Water is bubbling out at the fire hydrant		Given to Dan/Richard. They checked and it looks like where the water was coming out is from a neighbor's house drain. All is flowing OK – just too much water.		Completed									0	
44	12/14/2007	City Staff Recorded Public Citizen Complaint	SW 148 th Street	No other related complaints identified	Coluccio setting traffic control at flooding. Outside lane closed		UPDATE: 1:07 – 1 WB lane to be opened & turn lane on 1 st reopened. Swept is needed to get rid of bark on roadway.		Completed									0	
53	10/07/08	City Staff Recorded Public Citizen Complaint	1218 SW 118th St	No other related complaints identified	Owner complained that there was existing ditch in front of his property and was filled by the City 3 years ago		Site Visit and perform GIS verification; there was no existing ditch at location		Completed									0	
54	10/08/08	City Staff Recorded Public Citizen Complaint	1409 SW 164th St	No other related complaints identified	Drainage coming from alley and going into his property		City & King County will install a berm at driveway in front of his property so that storm water will be drained to existing ditch		Completed									0	
59	11/12/2008	City Staff Recorded Public Citizen Complaint	14906 21st ST SW - the previous owner passed away and the son want to sell the house - Lower land	No other related complaints identified	Pipe flow into property owner's back yard ditch system		Field visit, Need review of BSF114 and BSF180 - Natural water course, no drainage complaints records before		Completed									0	

Appendix 4-3: CIP Projects: Project
Descriptions, Cost Estimates and
Project Sketches

City of Burien
Project #31760
Prepared by Otak Inc.
Updated: 6/10/12

City of Burien Stormwater Capital Improvement Projects

Project Title	CIP ID	Complaint IDs	Location	Type	Problem Description	Project Description	Project Cost
Capacity Improvement at 4th Avenue SW	CIP 1	60, 88	Near the intersection of 4th Ave SW and SW 158th St	Capital Construction Project	Large Scour Hole on Creek - close to a privately owned garage. Erosion of the stream is moving more sediment downstream.	Re-routing of roadway drainage away from erosion area; increasing capacity on 4th Avenue SW drainage system.	\$552,000
20th Ave SW Drainage Improvements	CIP 2	113	20th Ave SW Near Lake Burien	Capital Construction Project	No existing stormwater system causes localized flooding of the roadway. Possible water quality concern.	Add new stormwater system on the east side of the street. Consider installing water quality treatment to treat road runoff.	\$390,000
20th Ave S between S 120th Ave and S 124th St Drainage Improvements	CIP 3	13, 15	20 th Ave S between S 120 th Ave and S 124 th St	Capital Construction Project	Replace aging/failing stormwater system on 20th Ave S.	Replace existing stormwater system to 20 th Ave S. Verify/upgrade system capacity. Consider installing water quality treatment to treat road runoff.	\$441,000
SW 165th St between 16th Ave SW and 19th Ave SW	CIP 4	55, 56, 92	SW 165th St between 16th Ave SW and 19th Ave SW	Capital Construction Project	No existing stormwater system causes localized flooding of the roadway.	Add new stormwater system to SW 165 th St. Consider installing water quality treatment to treat road runoff and adding sidewalks to the street.	\$322,000
SW 135th St and 6th Ave SW Drainage Improvements	CIP 5	17, 104, 106	SW 135th St and 6th Ave SW (Near House #607)	Capital Construction Project	No existing stormwater system causes localized flooding of the roadway and adjacent private property.	Add new stormwater system to SW 135 th St at 6 th Ave SW to manage public water and keep it off private property. Consider use of LID techniques.	\$154,000
SW 152nd and 8th Ave SW Drainage Improvements	CIP 6	50, 82, 93	SW 152nd and 8th Ave SW	Capital Construction Project	The City's stormwater system is under capacity, which causes flooding of a privately owned commercial parking lot. The City has an easement for the stormwater system that is partially located on private property.	Upsize existing stormwater conveyance system.	\$457,000
25th Ave SW Drainage Improvements	CIP 7	7	25th Avenue SW Drainage System near Maplewild Avenue NW	Capital Construction Project	Erosion and sedimentation of streams 0367 and 0368. (Project Identified in 2005 DMP)	Provide a new 18- to 24-inch diameter pipe along 25th Ave SW and connect to the existing storm drainage system located at Maplewild Ave SW. Acquire storm drainage easement for the portion of the new storm drainage system that is located on private property. Provide water quality treatment manhole at the downstream end of the new drainage system.	\$799,000
4th Ave S/Blake Manor Neighborhood Drainage Improvements	CIP 8	48	4th Ave S between S 168th St and S 165th St	Capital Construction Project	No existing stormwater system causes localized flooding of the roadway.	Add new stormwater system at 4 th Ave S from S 165 th St to S 168 th St	\$639,000
Lake Burien System Retrofit	Study 1	90, 117, 118	Lake Burien/Miller Creek Watershed	Study	Flooding and water quality issues in Lake Burien and downstream system to Miller Creek.	Evaluation of water quality retrofit opportunities in Lake Burien drainage basin and capacity evaluation for downstream system.	\$250,000
NERA Master Drainage Plan	Study 2	128	NERA	CIP	Regional stormwater plan needed to support NERA development.	Master Drainage Plan to locate and design regional stormwater management facilities.	\$350,000
Des Moines Memorial Drive and S 175th St Sediment Study	Study 3	38, 87	Des Moines Memorial Drive S and S 175th St	Study	Sediment accumulation behind a recently installed beaver deceiver is causing flooding of the roadway.	Sediment Management Study/Source Tracing	\$100,000
Hermes and Mayfair Depressions Master Plan	Study 4	10, 19	Hermes Depression, Mayfair Depression	Study	Flooding occurs in the Hermes and Mayfair Depressions. Long term regional stormwater management needed.	Regional Plan for stormwater retention and water quality facilities	\$200,000
142nd Street Depression Improvements	Study 5	25, 26, 27, 85	142nd St Depression	Study	Two detention ponds are connected, but have no outlet. During large rainfall events the pond overflow and flood public ROW and adjacent private property.	Geotechnical investigation to confirm infiltration capacity. Possible retrofit of pond with infiltration or install a high flow bypass or add a pump to the pond with no outlet.	\$150,000
Arbor Lake Water Quality Lake Management Plan	Study 6	127	Arbor Lake	Study	There are water quality issues in the lake including algae blooms and no swimming warnings in the summer.	Arbor Lake has water quality issues, especially in the summer. Develop a Water Quality Lake Management Plan.	\$150,000
Ambaum Blvd SW/SW 120th Block Drainage Improvements	SWP 1	119	Ambaum Blvd SW and SW 120th Block	Small Works Project	No existing stormwater system causes localized flooding of the roadway.	Add new CB and pipe to existing system in the low point in the road	\$100,000 <i>allocated</i>
Occidental Ave S Drainage Improvements	SWP 2	103, 105	Des Moines Memorial Drive S and S 116th St - S 118th St	Small Works Project	Overland erosion on both sides of street. Runoff from the roadway floods a local property owner.	Repave road and install asphalt berms to keep stormwater within public ROW. There is a 12" high pressure gas main, which means installing a new stormwater system may be impossible.	\$100,000 <i>allocated</i>
Eagle Landing Park/25th Ave SW Drainage Improvements	SWP 3	80	25th AVE SW (Near House #14639)/Eagle Landing Park	Capital Construction Project	Overland erosion caused by public water onto private property.	Install a dispersion trench into the park to divert water over a larger area into the park and away from private property.	\$100,000 <i>allocated</i>
116th Ave SW between 1st Ave and 4th Ave SW at Church Drainage Improvements	SWP 4	125	116th Ave SW between 1st Ave SW and 4th Ave SW	Small Works Project	There is a 30" pipe that drains to an existing ditch (City has a 10' easement) adjacent to a church parking lot that abruptly ends. Water disperses into a forested area then drains to an existing pipe and then into an existing detention pond. The dispersion into the wooded area causes the water to slow down and silt up behind the existing pipe.	Install new stormwater system on existing 10' easement from the church property to the downstream pond. (This solution needs some further refinement/discussion)	\$100,000 <i>allocated</i>

City of Burien: CIP Project Summary Sheet

PROJECT TITLE:

CIP #1: Capacity Improvement at 4th Avenue SW

PROJECT SKETCH

City to Provide

PROJECT LOCATION (OTAK IDs):

Near the Intersection of 4th Ave SW and SW 158th St, near the creek that runs from Lake Burien to Miller Creek. (Otak IDs 66, 88)

PROBLEM DESCRIPTION:

Large Scour Hole on Creek - close to a privately owned garage. Erosion of the stream is moving more sediment downstream.

PROJECT DESCRIPTIONS:

Reroute existing stormwater flows from 4th Ave SW (north of SW 158th St) away from problem area and into existing stormwater system on 4th Ave SW.

Replace existing 12" pipe with a new 18" pipe to increase capacity for 720 linear feet. Consider installation of energy dissipator on the creek upstream of SW 158th St.

DESIGN CONSIDERATIONS:

- Conduct an H&H Analysis of the system to ensure an 18" pipe is large enough to convey the re-routed flow rates.

ESTIMATED PROJECT COSTS:

\$552,000

PROJECT LOCATION PHOTOS



PLANNING LEVEL PROJECT COST OPINION

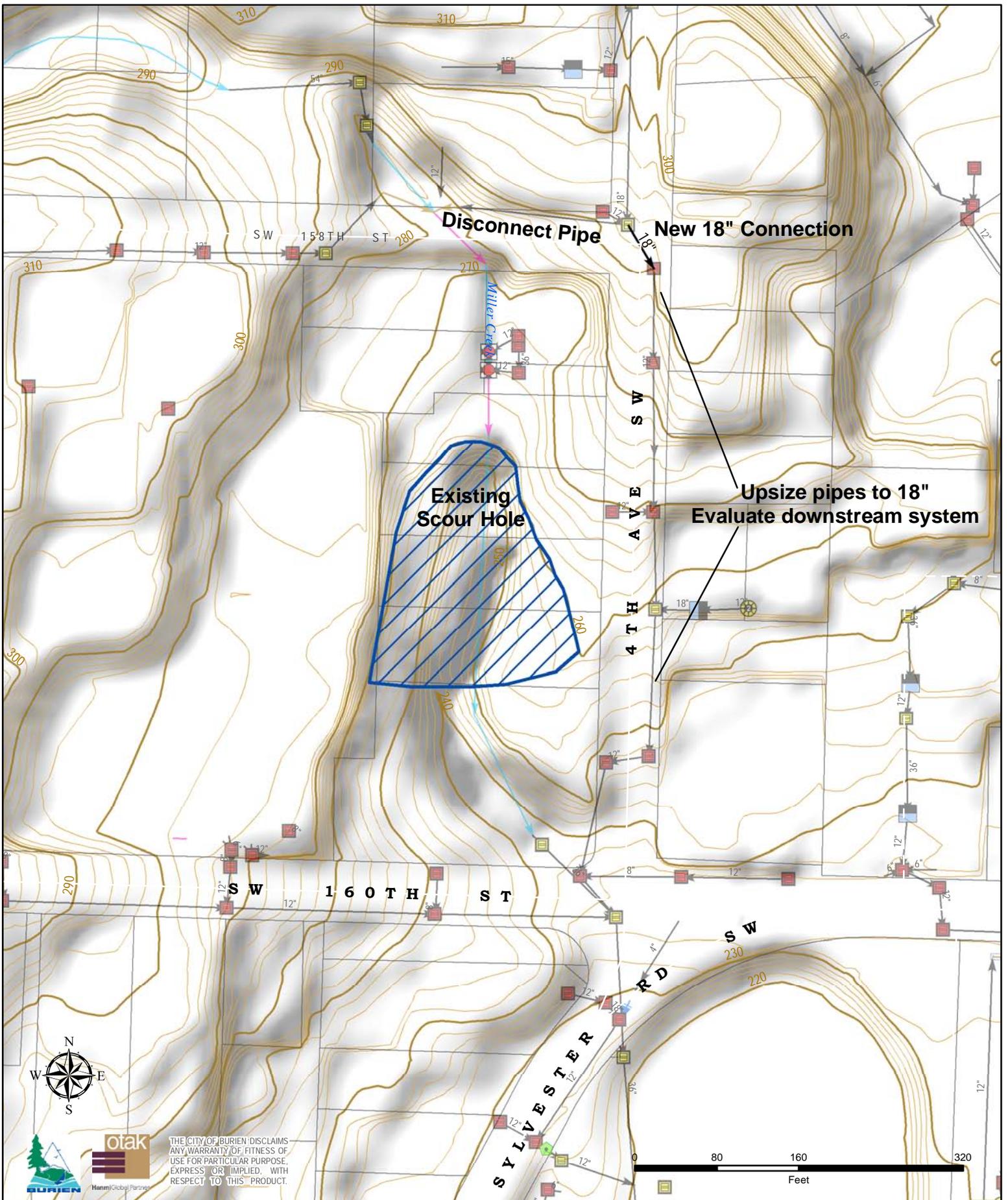
PROJECT: Capacity Improvement at 4th Ave SW
PROJECT ID: CIP 1
BY: JSA

CHECK BY: JLC
DATE: 5/22/2012

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<i>Construction Elements</i>					
1	REMOVING ASPHALT CONC. PAVEMENT	300	SY	\$ 40.00	\$ 12,000
2	STRUCTURE EXCAVATION CLASS B INCL. HAUL	500	CY	\$ 7.00	\$ 3,500
3	SHORING OR EXTRA EXCAVATION CLASS B	1,440	SF	\$ 2.00	\$ 2,900
4	SAWCUTTING	1,448	LF	\$ 4.00	\$ 5,800
5	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 18-IN DIAM	720	LF	\$ 30.00	\$ 21,600
6	CATCH BASIN TYPE 1	5	EA	\$ 2,500.00	\$ 12,500
7	ASPHALT TREATED BASE	85	TON	\$ 150.00	\$ 12,900
8	HMA, CL 1/2-IN PG	68	TON	\$ 150.00	\$ 10,300
9	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	213	CY	\$ 55.00	\$ 11,800
10	GRAVEL BORROW INCL. HAUL	401	TON	\$ 20.00	\$ 8,100
11	CONNECT TO DRAINAGE STRUCTURE	2	EA	\$ 1,000.00	\$ 2,000
12	UTILITY RELOCATIONS	1	LS	\$ 15,000.00	\$ 15,000
13	ROADSIDE RESTORATION	1	LS	\$ 5,000.00	\$ 5,000
14	STREAM BANK STABILIZATION	1	LS	\$ 100,000.00	\$ 100,000
Subtotal Construction Elements					\$ 223,400
<i>Required Ancillary Items</i>					
15	EROSION & SEDIMENTATION CONTROL	10%		(see note 3)	\$ 22,400
16	TRAFFIC CONTROL	10%		(see note 4)	\$ 22,400
17	CONTINGENCY	30%			\$ 67,100
Subtotal Ancillary					\$ 111,900
Subtotal Construction + Ancillary					\$ 335,300
<i>Mobilization</i>					
18	MOBILIZATION	10%			\$ 33,530
Subtotal Construction + Ancillary + Mobilization					\$ 368,830
<i>Tax/Engineering/Management/Permitting</i>					
19	STATE SALES TAX	9.5%			\$ 35,100
20	ENGINEERING/LEGAL/ADMIN	25%			\$ 92,300
21	CONSTRUCTION MANAGEMENT	10%			\$ 36,900
22	PERMITTING	5%			\$ 18,500
Subtotal					\$ 182,800
Subtotal Construction + Ancillary + Mobilization + Tax/Engineering/Management/Permitting					\$ 551,630
2012 Dollars Total Estimated Project Cost (Rounded)					\$ 552,000

Notes:

- The above cost opinion is in 2012 dollars and does not include future escalation, financing, or O&M costs.
- The order-of-magnitude cost opinion has been prepared for guidance in project evaluation from the information available at the time of preparation and for the assumptions stated. The final costs of
- Increase percentage markup if work is in or immediately adjacent to flowing or standing water, steep slope, and/or other erosion-prone conditions.
- Increase percentage markup if work is in or immediately adjacent to secondary, arterial, or other high-volume road or temporarily closes a roadway.
- Land Acquisition unit costs include Administrative Costs and Condemnation and are based on a unit price of \$8/SF. These costs are not the assessed value of the property.



CIP 1

Capacity Improvement at 4th Avenue SW

May 2012

City of Burien: CIP Project Summary Sheet

PROJECT TITLE:

CIP #2: 20th Ave SW Drainage Improvements

PROJECT SKETCH

City to Provide

PROJECT LOCATION (OTAK IDs):

20th Ave SW near Lake Burien between SW 152nd St and SW 154th St (113)

PROBLEM DESCRIPTION:

No existing stormwater system causes localized flooding of the roadway and private property. Overland flow during flooding drains to Lake Burien. There is no existing water quality treatment, with the exception of oil/water separator that treats a portion of 20th Ave SW.

PROJECT DESCRIPTIONS:

Install up to 5 new catch basins and 550 linear feet of new 12" pipe along the east side of 20th Ave SW. Upgrade the existing oil/water separator to provide stormwater treatment before discharging to Lake Burien using a mechanical system such as StormFilter.

DESIGN CONSIDERATIONS:

- Right-of-way limits
- Water Quality/Lake Water Quality

ESTIMATED PROJECT COSTS:

\$390,000

PROJECT LOCATION PHOTOS



PLANNING LEVEL PROJECT COST OPINION

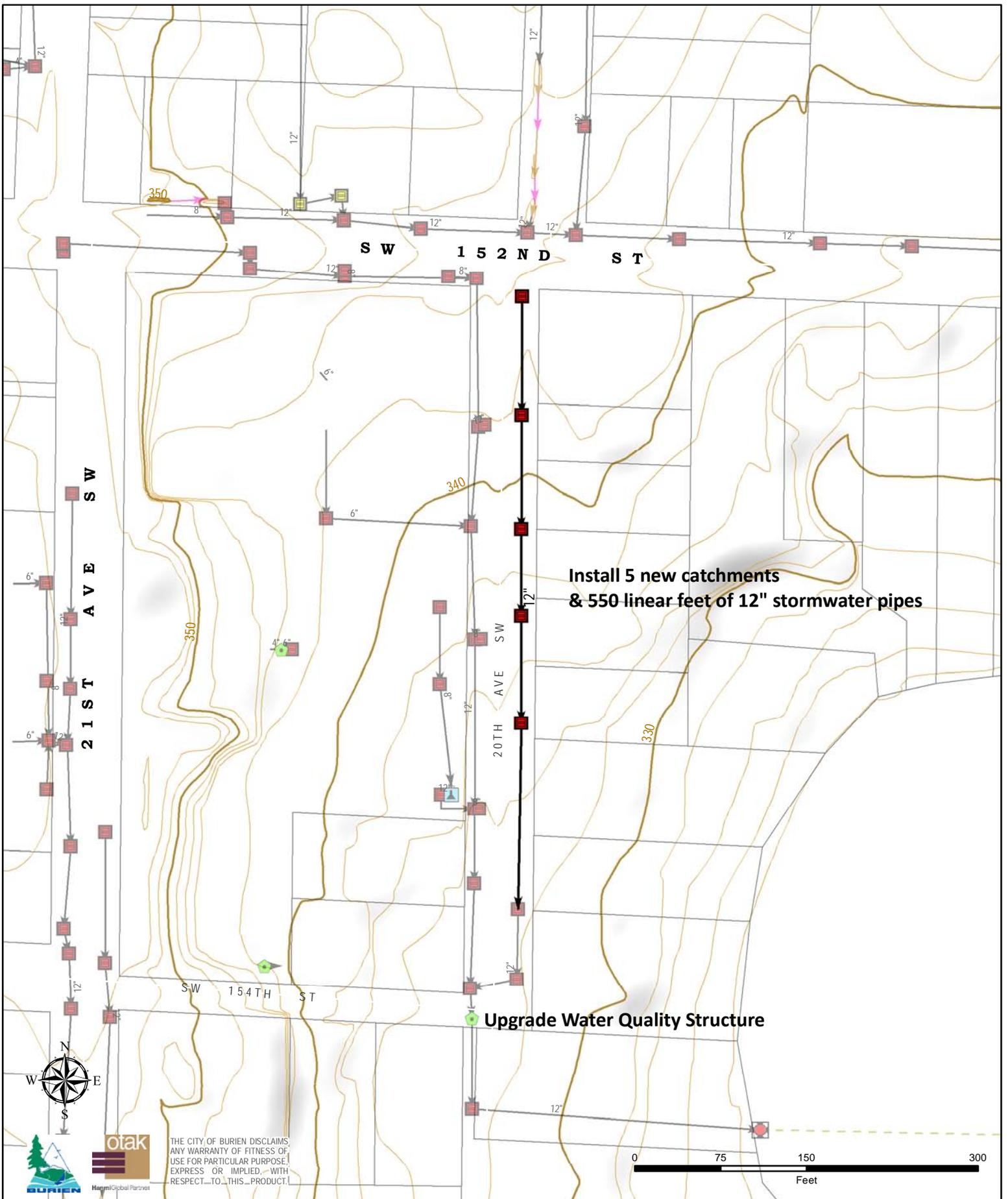
PROJECT: 20th Avenue SW Drainage Improvements
PROJECT ID: CIP 2
BY: JSA

CHECK BY: JLC
DATE: 04/25/2012

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<i>Construction Elements</i>					
1	REMOVING ASPHALT CONC. PAVEMENT	199	SY	\$ 40.00	\$ 8,000
2	STRUCTURE EXCAVATION CLASS B INCL. HAUL	397	CY	\$ 7.00	\$ 2,800
3	SHORING OR EXTRA EXCAVATION CLASS B	2,200	SF	\$ 2.00	\$ 4,400
4	SAWCUTTING	1,107	LF	\$ 4.00	\$ 4,500
5	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 12-IN DIAM	550	LF	\$ 25.00	\$ 13,800
6	CATCH BASIN TYPE 1	5	EA	\$ 2,500.00	\$ 12,500
7	ASPHALT TREATED BASE	57	TON	\$ 150.00	\$ 8,500
8	HMA, CL 1/2-IN PG	45	TON	\$ 150.00	\$ 6,800
9	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	134	CY	\$ 55.00	\$ 7,400
10	GRAVEL BORROW INCL. HAUL	388	TON	\$ 20.00	\$ 7,800
11	CONNECT TO DRAINAGE STRUCTURE	1	EA	\$ 1,000.00	\$ 1,000
12	OIL/WATER SEPARATOR	1	EA	\$ 15,000.00	\$ 15,000
13	STORMFILTER	1	EA	\$ 45,000.00	\$ 45,000
14	UTILITY RELOCATIONS	1	LS	\$ 15,000.00	\$ 15,000
15	ROADSIDE RESTORATION	1	LS	\$ 5,000.00	\$ 5,000
Subtotal Construction Elements					\$ 157,500
<i>Required Ancillary Items</i>					
15	EROSION & SEDIMENTATION CONTROL		10%	(see note 3)	\$ 15,800
16	TRAFFIC CONTROL		10%	(see note 4)	\$ 15,800
17	CONTINGENCY		30%		\$ 47,300
Subtotal Ancillary					\$ 78,900
Subtotal Construction + Ancillary					\$ 236,400
<i>Mobilization</i>					
18	MOBILIZATION		10%		\$ 23,640
Subtotal Construction + Ancillary + Mobilization					\$ 260,040
<i>Tax/Engineering/Management/Permitting</i>					
19	STATE SALES TAX		9.5%		\$ 24,800
20	ENGINEERING/LEGAL/ADMIN		25%		\$ 65,100
21	CONSTRUCTION MANAGEMENT		10%		\$ 26,100
22	PERMITTING		5%		\$ 13,100
Subtotal					\$ 129,100
Subtotal Construction + Ancillary + Mobilization + Tax/Engineering/Management/Permitting					\$ 389,140
2012 Dollars Total Estimated Project Cost (Rounded)					\$ 390,000

Notes:

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- Increase percentage markup if work is in or immediately adjacent to secondary, arterial, or other high-volume road or temporarily closes a roadway.
- Land Acquisition unit costs include Administrative Costs and Condemnation and are based on a unit price of \$8/SF. These costs are not the assessed value of the property.

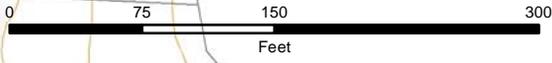


**Install 5 new catchments
& 550 linear feet of 12" stormwater pipes**

Upgrade Water Quality Structure



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CIP 2	20th Ave SW Drainage Improvements	May 2012
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City of Burien: CIP Project Summary Sheet

PROJECT SKETCH

PROJECT TITLE:

CIP #3: 20th Ave S between S 120th Ave and S 124th St Drainage Improvements

City to Provide

PROJECT LOCATION (OTAK IDs):

20th Ave S between S 120th Ave and S 124th St (55, 56, 92)

PROBLEM DESCRIPTION:

Replace aging/failing stormwater system on 20th Ave S.

PROJECT DESCRIPTIONS:

Replace existing stormwater system to 20th Ave S. Install 1300 LF of new 12" pipe and 8 new catch basins. Verify/upgrade system capacity.

DESIGN CONSIDERATIONS:

- Right-of-way limits

ESTIMATED PROJECT COSTS:

\$441,000

PROJECT LOCATION PHOTOS



PLANNING LEVEL PROJECT COST OPINION

PROJECT: 20th Avenue South Between S. 120th Avenue & S. 124th Street Drainage Improvements
PROJECT ID: CIP 3 **CHECK BY:** JLC
BY: JSA **DATE:** 04/25/2012

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<i>Construction Elements</i>					
1	REMOVING ASPHALT CONC. PAVEMENT	433	SY	\$ 40.00	\$ 17,400
2	STRUCTURE EXCAVATION CLASS B INCL. HAUL	867	CY	\$ 7.00	\$ 6,100
3	SHORING OR EXTRA EXCAVATION CLASS B	5,200	SF	\$ 2.00	\$ 10,400
4	SAWCUTTING	2,606	LF	\$ 4.00	\$ 10,500
5	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 12-IN DIAM	1,300	LF	\$ 25.00	\$ 32,500
6	CATCH BASIN TYPE 1	8	EA	\$ 2,500.00	\$ 20,000
7	ASPHALT TREATED BASE	123	TON	\$ 150.00	\$ 18,600
8	HMA, CL 1/2-IN PG	99	TON	\$ 150.00	\$ 14,900
9	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	264	CY	\$ 55.00	\$ 14,600
10	GRAVEL BORROW INCL. HAUL	1,013	TON	\$ 12.00	\$ 12,200
11	CONNECT TO DRAINAGE STRUCTURE	1	EA	\$ 1,000.00	\$ 1,000
12	UTILITY RELOCATIONS	1	LS	\$ 15,000.00	\$ 15,000
13	ROADSIDE RESTORATION	1	LS	\$ 5,000.00	\$ 5,000

Subtotal Construction Elements \$ 178,200

<i>Required Ancillary Items</i>					
14	EROSION & SEDIMENTATION CONTROL	10%		(see note 3)	\$ 17,900
15	TRAFFIC CONTROL	10%		(see note 4)	\$ 17,900
16	CONTINGENCY	30%			\$ 53,500

Subtotal Ancillary \$ 89,300

Subtotal Construction + Ancillary \$ 267,500

<i>Mobilization</i>					
17	MOBILIZATION	10%			\$ 26,750

Subtotal Construction + Ancillary + Mobilization \$ 294,250

<i>Tax/Engineering/Management/Permitting</i>					
18	STATE SALES TAX	9.5%			\$ 28,000
19	ENGINEERING/LEGAL/ADMIN	25%			\$ 73,600
20	CONSTRUCTION MANAGEMENT	10%			\$ 29,500
21	PERMITTING	5%			\$ 14,800

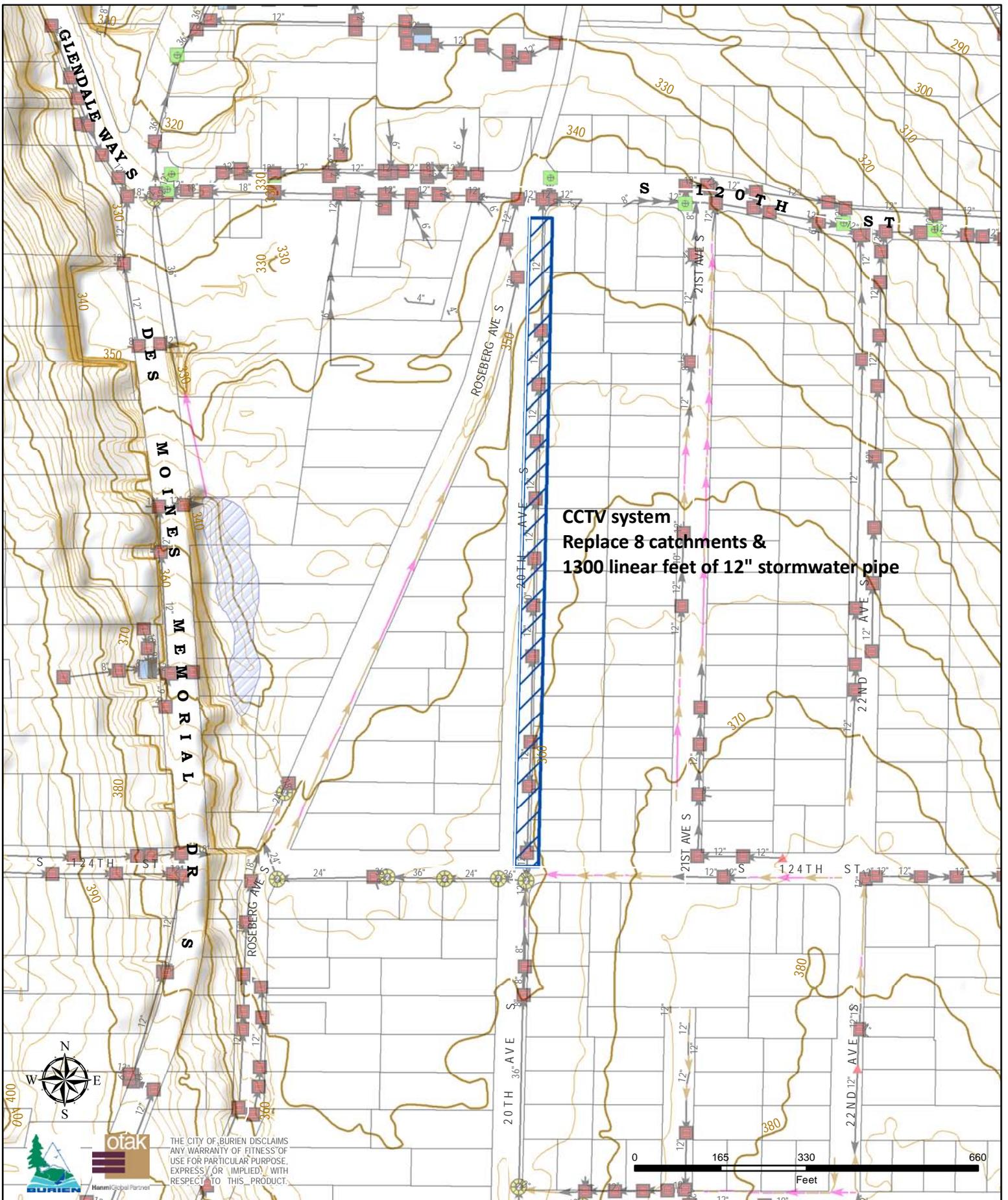
Subtotal \$ 145,900

Subtotal Construction + Ancillary + Mobilization + Tax/Engineering/Management/Permitting \$ 440,150

2012 Dollars Total Estimated Project Cost (Rounded) \$ 441,000

Notes:

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- Increase percentage markup if work is in or immediately adjacent to secondary, arterial, or other high-volume road or temporarily closes a roadway.
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CCTV system
Replace 8 catchments &
1300 linear feet of 12" stormwater pipe



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CIP 3	20th Ave S between S 120th Ave and S 124th St Drainage Improvements	May 2012
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City of Burien: CIP Project Summary Sheet

PROJECT SKETCH

PROJECT TITLE:

CIP #4: SW 165th St between 16th Ave SW and 19th Ave SW

City to Provide

PROJECT LOCATION (OTAK IDs):

SW 165th St between 16th Ave SW and 19th Ave SW (55, 56, 92)

PROBLEM DESCRIPTION:

No existing stormwater system causes localized flooding of the roadway.

PROJECT DESCRIPTIONS:

Add 2 new catch basin and 300 linear feet of new 12" pipe. Overlay the road with concave pavement to drain all water towards the center of the roadway.

DESIGN CONSIDERATIONS:

- Do not decrease the existing roadside parking.

ESTIMATED PROJECT COSTS:

\$322,000

PROJECT LOCATION PHOTOS



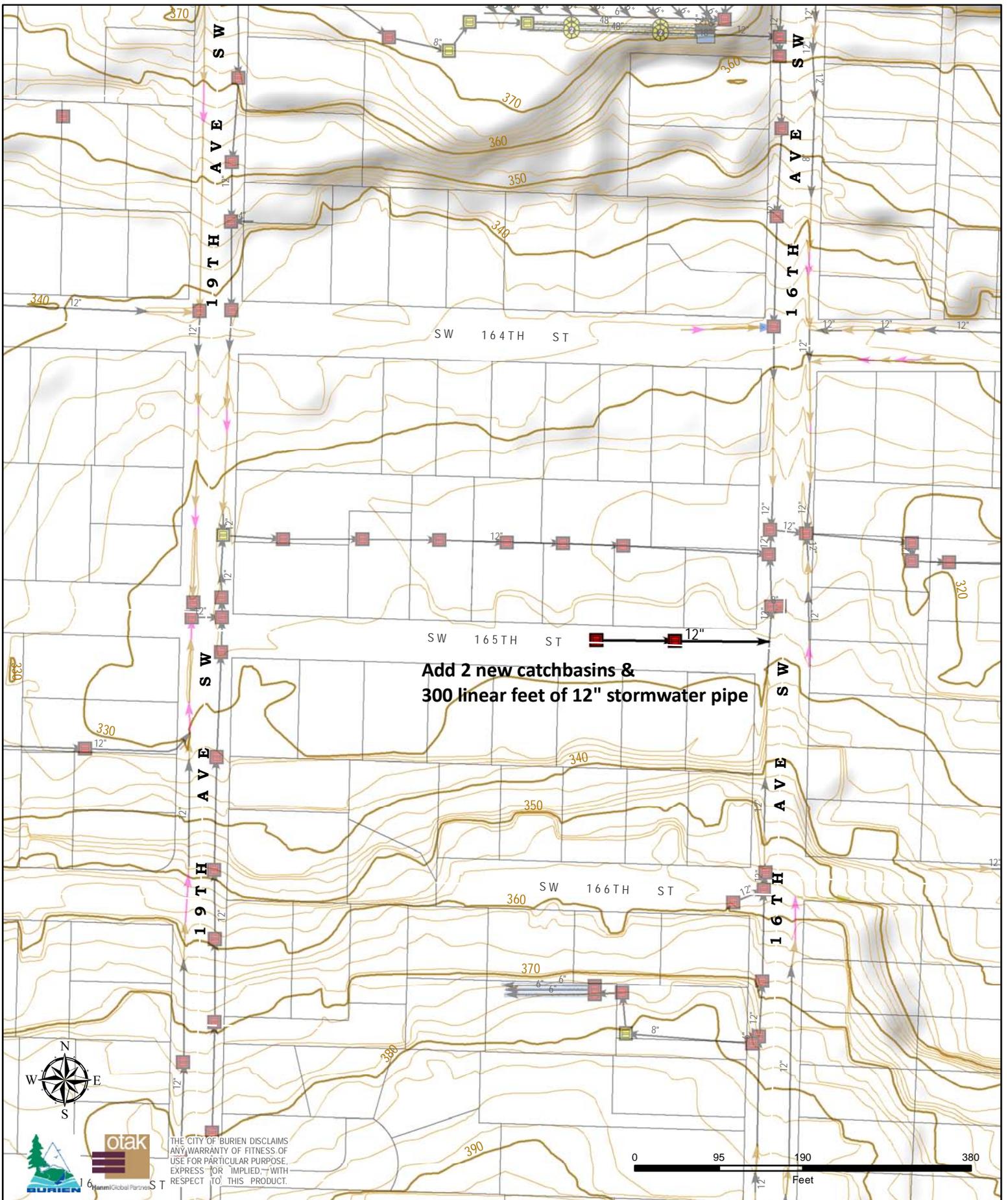
PLANNING LEVEL PROJECT COST OPINION

PROJECT: SW 165TH Street between 16th Avenue SW and 19th Avenue SW Drainage Improvements
PROJECT ID: CIP 4 **CHECK BY:** JLC
BY: JSA **DATE:** 04/25/2012

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<i>Construction Elements</i>					
1	REMOVING ASPHALT CONC. PAVEMENT	800	SY	\$ 40.00	\$ 32,000
2	SAWCUTTING	100	LF	\$ 4.00	\$ 400
3	STRUCTURE EXCAVATION CLASS B INCL. HAUL	395	CY	\$ 7.00	\$ 2,768
4	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 12-IN DIAM	300	LF	\$ 25.00	\$ 7,500
5	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	67	CY	\$ 55.00	\$ 3,686
6	GRAVEL BORROW INCL. HAUL	47	CY	\$ 30.00	\$ 1,400
7	CATCH BASIN TYPE 1	2	EA	\$ 3,500.00	\$ 7,000
8	CONNECT TO DRAINAGE STRUCTURE	1	EA	\$ 1,000.00	\$ 1,000
9	CRUSH SURFACING BASE COURSE	247	TON	\$ 30.00	\$ 7,400
10	ASPHALT TREATED BASE	273	TON	\$ 120.00	\$ 32,800
11	HMA, CL 1/2-IN PG	91	TON	\$ 120.00	\$ 10,934
12	UTILITY RELOCATIONS	1	LS	\$ 10,000.00	\$ 10,000
13	ROADSIDE RESTORATION	1	LS	\$ 5,000.00	\$ 5,000
Subtotal Construction Elements					\$ 121,888
<i>Required Ancillary Items</i>					
13	EROSION & SEDIMENTATION CONTROL	10%		(see note 3)	\$ 12,200
14	TRAFFIC CONTROL	10%		(see note 4)	\$ 12,200
15	CONTINGENCY	30%			\$ 36,600
Subtotal Ancillary					\$ 61,000
Subtotal Construction + Ancillary					\$ 182,888
<i>Mobilization</i>					
16	MOBILIZATION	10%			\$ 18,289
Subtotal Construction + Ancillary + Mobilization					\$ 201,177
<i>Tax/Engineering/Management/Permitting</i>					
17	STATE SALES TAX	9.5%			\$ 19,200
18	ENGINEERING/LEGAL/ADMIN	35%			\$ 70,500
19	CONSTRUCTION MANAGEMENT	10%			\$ 20,200
20	PERMITTING	5%			\$ 10,100
Subtotal					\$ 120,000
Subtotal Construction + Ancillary + Mobilization + Tax/Engineering/Management/Permitting					\$ 321,177
2012 Dollars Total Estimated Project Cost (Rounded)					\$ 322,000

Notes:

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- Increase percentage markup if work is in or immediately adjacent to secondary, arterial, or other high-volume road or temporarily closes a roadway.
- Land Acquisition unit costs include Administrative Costs and Condemnation and are based on a unit price of \$8/SF. These costs are not the assessed value of the property.



CIP 4

SW 165th St between 16th Ave SW and 19th Ave SW

May 2012

City of Burien: CIP Project Summary Sheet

PROJECT TITLE:

**CIP #5: SW 135th St and 6th Ave SW
Drainage Improvements**

PROJECT SKETCH

City to Provide

PROJECT LOCATION (OTAK IDs):

SW 135th St and 6th Ave SW (Near
House #607) (17)

PROBLEM DESCRIPTION:

No existing stormwater system causes
localized flooding of the roadway and
adjacent private property.

PROJECT DESCRIPTIONS:

Install a new bioretention ditch
stormwater conveyance system on SW
135th St at 6th Ave SW (within the public
right-of-way) on both the west and sides
of the street. The purpose of the new
bioretention ditches is to manage public
water and keep it off private property.

DESIGN CONSIDERATIONS:

- Some local residential parking will be lost with the addition of stormwater features on SW 135th St.
- Project requires coordination with neighbors and local citizens.
- Combine with two other CIPs for design and construction bids: SW 165th St between 16th Ave SW and 19th Ave SW CIP and SW 134th St and 8th Ave SW Drainage Improvements CIP

ESTIMATED PROJECT COSTS:

\$154,000

PROJECT LOCATION PHOTOS



PLANNING LEVEL PROJECT COST OPINION

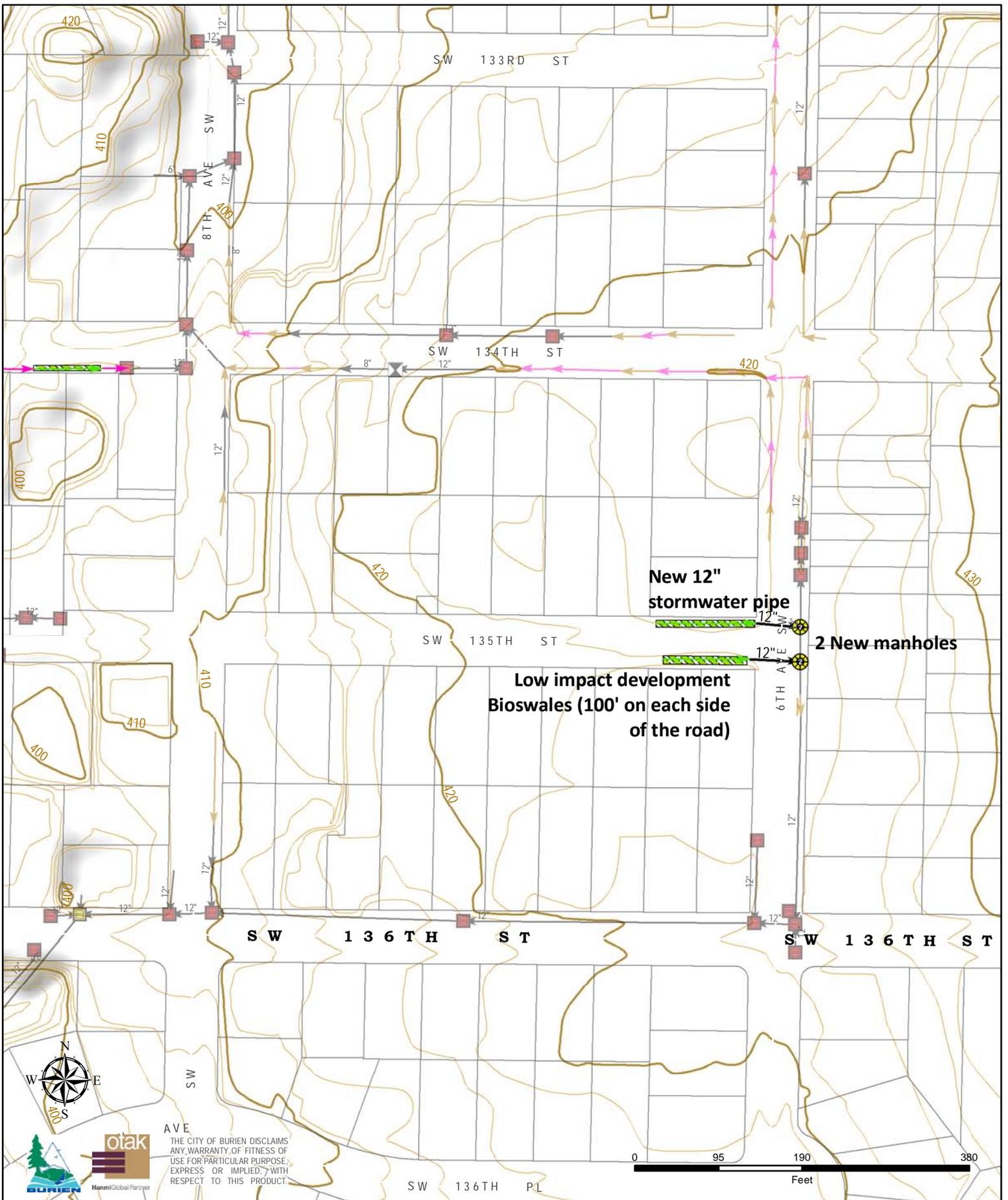
PROJECT: SW 135TH Street and 6th Avenue Drainage Improvements
PROJECT ID: CIP 5
BY: JSA

CHECK BY: JLC
DATE: 04/25/2012

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<i>Construction Elements</i>					
1	REMOVING ASPHALT CONC. PAVEMENT	150	SY	\$ 40.00	\$ 6,000
2	SAWCUTTING	697	LF	\$ 4.00	\$ 2,786
3	STRUCTURE EXCAVATION CLASS B INCL. HAUL	211	CY	\$ 7.00	\$ 1,478
4	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 12-IN DIAM	200	LF	\$ 25.00	\$ 5,000
5	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	45	CY	\$ 55.00	\$ 2,457
6	GRAVEL BORROW INCL. HAUL	124	TON	\$ 30.00	\$ 3,730
7	MANHOLE TYPE 2 48" DIAM.	2	EA	\$ 2,500.00	\$ 5,000
8	CONNECT TO DRAINAGE STRUCTURE	1	EA	\$ 1,000.00	\$ 1,000
9	ASPHALT TREATED BASE	32	TON	\$ 150.00	\$ 4,841
10	HMA, CL 1/2-IN PG	16	TON	\$ 150.00	\$ 2,373
11	AMENDED SOIL	199	CY	\$ 35.00	\$ 6,981
12	PLANTINGS	78	SY	\$ 20.00	\$ 1,556
13	UTILITY RELOCATIONS	1	LS	\$ 10,000.00	\$ 10,000
14	ROADSIDE RESTORATION	1	LS	\$ 5,000.00	\$ 5,000
Subtotal Construction Elements					\$ 58,202
<i>Required Ancillary Items</i>					
14	EROSION & SEDIMENTATION CONTROL		10%	(see note 3)	\$ 5,900
15	TRAFFIC CONTROL		10%	(see note 4)	\$ 5,900
16	CONTINGENCY		30%		\$ 17,500
Subtotal Ancillary					\$ 29,300
Subtotal Construction + Ancillary					\$ 87,502
<i>Mobilization</i>					
17	MOBILIZATION		10%		\$ 8,750
Subtotal Construction + Ancillary + Mobilization					\$ 96,252
<i>Tax/Engineering/Management/Permitting</i>					
18	STATE SALES TAX		9.5%		\$ 9,200
19	ENGINEERING/LEGAL/ADMIN		35%		\$ 33,700
20	CONSTRUCTION MANAGEMENT		10%		\$ 9,700
21	PERMITTING		5%		\$ 4,900
Subtotal					\$ 57,500
Subtotal Construction + Ancillary + Mobilization + Tax/Engineering/Management/Permitting					\$ 153,752
2012 Dollars	Total Estimated Project Cost (Rounded)				\$ 154,000

Notes:

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- Increase percentage markup if work is in or immediately adjacent to secondary, arterial, or other high-volume road or temporarily closes a roadway.
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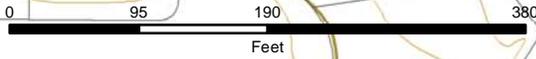
New 12" stormwater pipe

2 New manholes

Low impact development Bioswales (100' on each side of the road)



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CIP 5	SW 135th St and 6th Ave SW Drainage Improvements	May 2012
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City of Burien: CIP Project Summary Sheet

PROJECT SKETCH

PROJECT TITLE:

**CIP #6: SW 152nd and 8th Ave SW
Drainage Improvements**

City to Provide

PROJECT LOCATION (OTAK IDs):

SW 152nd and 8th Ave SW (50, 82, 93)

PROBLEM DESCRIPTION:

The City's stormwater system is under capacity, which causes flooding of a privately owned commercial parking lot. The City has an easement for the stormwater system that is partially located on private property.

PROJECT DESCRIPTIONS:

Upsize existing stormwater conveyance system along SW 152nd St and Ambaum Blvd SW to the intersection with SW 154th St. with 165 ft of new 18" pipe, 800 linear feet of 24" pipe and 9 new catch basins.

DESIGN CONSIDERATIONS:

- Design needed to verify 18" pipe size and location/cause of backwater effect.
- Coordination with private property owner.
- Need H&H analysis and downstream system review

PROJECT LOCATION PHOTOS



ESTIMATED PROJECT COSTS:

\$457,000

PLANNING LEVEL PROJECT COST OPINION

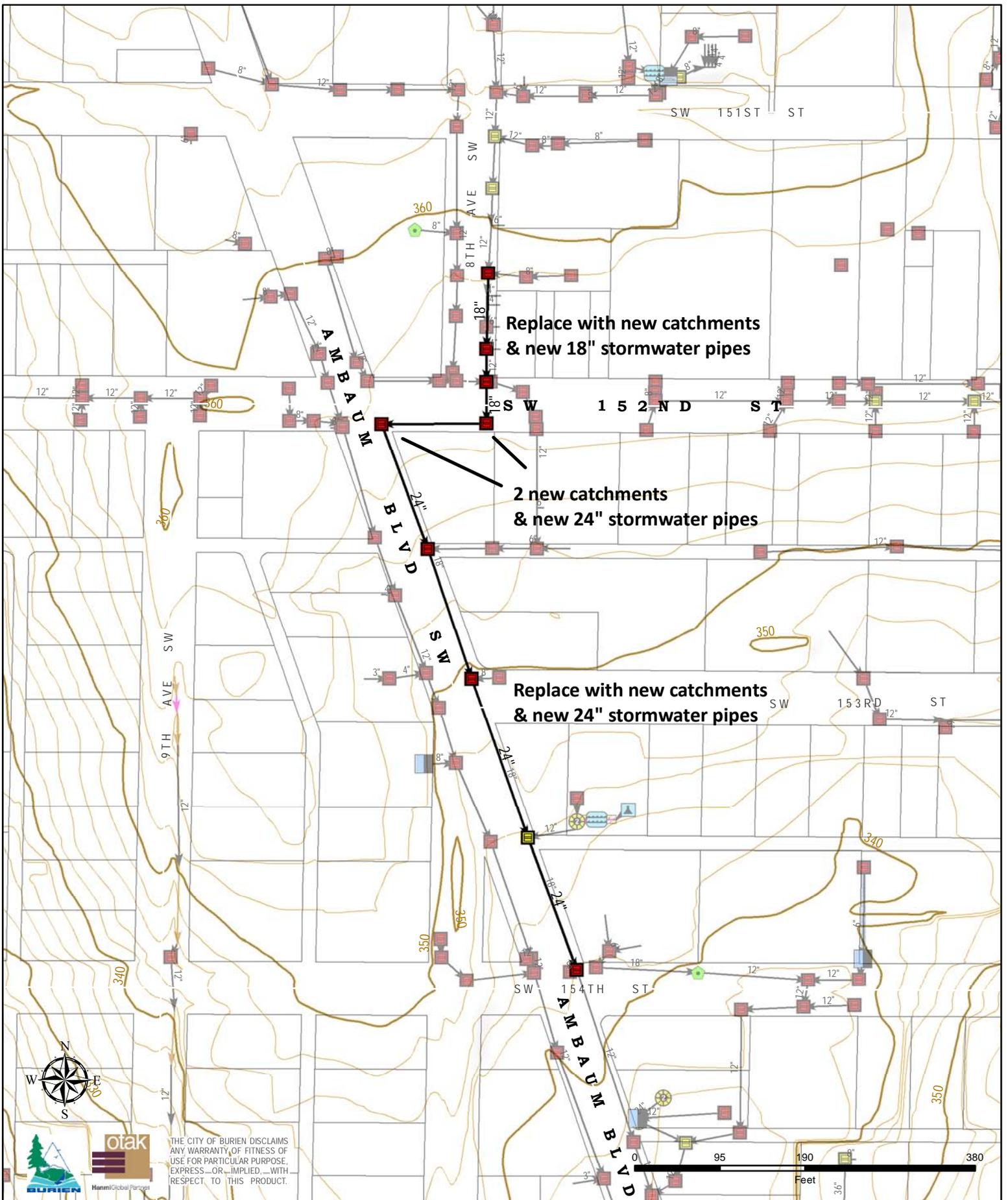
PROJECT: SW 152nd and 8th Ave SW Drainage Improvements
PROJECT ID: CIP 6
BY: JSA

CHECK BY: JLC
DATE: 5/22/2011

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<i>Construction Elements</i>					
1	REMOVING ASPHALT CONC. PAVEMENT	483	SY	\$ 40.00	\$ 19,300
2	SAWCUTTING	1,939	LF	\$ 4.00	\$ 7,756
3	STRUCTURE EXCAVATION CLASS B INCL. HAUL	804	CY	\$ 7.00	\$ 5,630
4	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 18-IN DIAM	165	LF	\$ 30.00	\$ 4,950
5	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 24-IN DIAM	800	LF	\$ 35.00	\$ 28,000
6	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	314	CY	\$ 55.00	\$ 17,281
7	GRAVEL BORROW INCL. HAUL	831	TON	\$ 30.00	\$ 24,920
8	CATCH BASIN TYPE 1	9	EA	\$ 1,500.00	\$ 13,500
9	CONNECT TO DRAINAGE STRUCTURE	2	EA	\$ 1,000.00	\$ 2,000
10	ASPHALT TREATED BASE	172	TON	\$ 150.00	\$ 25,868
11	HMA, CL 1/2-IN PG	63	TON	\$ 150.00	\$ 9,382
12	CONCRETE CURB AND GUTTER	165	LF	\$ 7.00	\$ 1,155
13	ROADSIDE RESTORATION	1	LS	\$ 10,000.00	\$ 10,000
14	UTILITY RELOCATIONS	1	LS	\$ 15,000.00	\$ 15,000
Subtotal Construction Elements					\$ 184,742
<i>Required Ancillary Items</i>					
15	EROSION & SEDIMENTATION CONTROL		10%	(see note 3)	\$ 18,500
16	TRAFFIC CONTROL		10%	(see note 4)	\$ 18,500
17	CONTINGENCY		30%		\$ 55,500
Subtotal Ancillary					\$ 92,500
Subtotal Construction + Ancillary					\$ 277,242
<i>Mobilization</i>					
18	MOBILIZATION		10%		\$ 27,724
Subtotal Construction + Ancillary + Mobilization					\$ 304,966
<i>Tax/Engineering/Management/Permitting</i>					
19	STATE SALES TAX		9.5%		\$ 29,000
20	ENGINEERING/LEGAL/ADMIN		25%		\$ 76,300
21	CONSTRUCTION MANAGEMENT		10%		\$ 30,500
22	PERMITTING		5%		\$ 15,300
Subtotal					\$ 151,100
Subtotal Construction + Ancillary + Mobilization + Tax/Engineering/Management/Permitting					\$ 456,066
2012 Dollars Total Estimated Project Cost (Rounded)					\$ 457,000

Notes:

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- Increase percentage markup if work is in or immediately adjacent to flowing or standing water, steep slope, and/or other erosion-prone conditions.
- Increase percentage markup if work is in or immediately adjacent to secondary, arterial, or other high-volume road or temporarily closes a roadway.
- Land Acquisition unit costs include Administrative Costs and Condemnation and are based on a unit price of \$8/SF. These costs are not the assessed value of the property.



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CIP 6

SW 152nd St and 8th Ave SW Drainage Improvements

May 2012

City of Burien: CIP Project Summary Sheet

PROJECT SKETCH

PROJECT TITLE:

CIP #7: 25th Ave SW Drainage Improvements (Project Design from the 2005 Storm Drainage Master Plan)

City to Provide

PROJECT LOCATION (OTAK IDs):

25th Avenue SW near Maplewild Avenue NW (80)

PROBLEM DESCRIPTION:

Potential private property flooding along 25th Ave SW because there is no existing stormwater system.

PROJECT DESCRIPTIONS:

Provide a new 24" diameter pipe along 25th Ave SW and connect to the existing storm drainage system located at Maplewild Ave SW. Acquire storm drainage easement for the portion of the new storm drainage system that is located on private property. Provide water quality treatment manhole (StormFilter – 96" WQ Treatment Manhole) at the downstream end of the new drainage system.

New storm drainage system reduces property flooding on the west side of 25th Ave SW. Water quality treatment manhole will remove oil and sediment street runoff.

DESIGN CONSIDERATIONS:

- Project requires acquiring a drainage easement on private property.

ESTIMATED PROJECT COSTS:

\$799,000

PROJECT LOCATION PHOTOS

No photos were taken at this site.

PLANNING LEVEL PROJECT COST OPINION

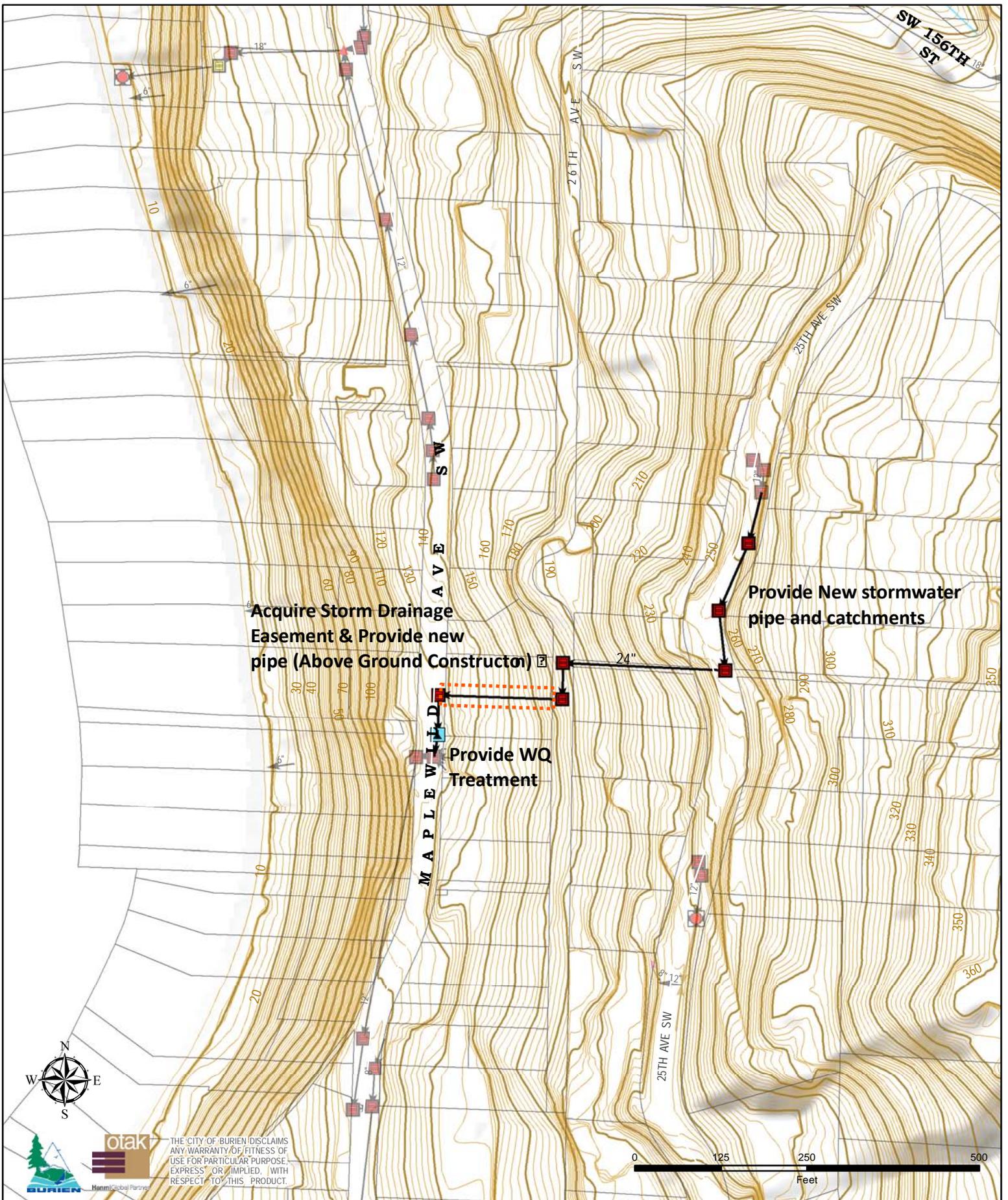
PROJECT: 25th Ave SW Drainage Improvements
PROJECT ID: CIP 7
BY: JSA

CHECK BY: JLC
DATE: 04/25/2012

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<i>Construction Elements</i>					
1	REMOVING ASPHALT CONC. PAVEMENT	150	SY	\$ 40.00	\$ 6,000
2	SAWCUTTING	609	LF	\$ 4.00	\$ 2,436
3	STRUCTURE EXCAVATION CLASS B INCL. HAUL	400	CY	\$ 7.00	\$ 2,800
4	TEMPORARY BYPASS	1	EA	\$ 10,000.00	\$ 10,000
5	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 24-IN DIAM	480	LF	\$ 35.00	\$ 16,800
6	JACK AND BORE PIT	1	EA	\$ 35,000.00	\$ 35,000
7	JACK AND BORE PIPE	210	LF	\$ 500.00	\$ 105,000
8	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	156	CY	\$ 55.00	\$ 8,596
9	GRAVEL BORROW INCL. HAUL	413	TON	\$ 30.00	\$ 12,395
10	STORMFILTER - 96" DIAM MH	1	EA	\$ 45,000.00	\$ 45,000
11	CATCH BASIN TYPE 1	7	EA	\$ 1,500.00	\$ 10,500
12	CONNECT TO DRAINAGE STRUCTURE	1	EA	\$ 1,000.00	\$ 1,000
13	ASPHALT TREATED BASE	59	TON	\$ 150.00	\$ 8,827
14	HMA, CL 1/2-IN PG	25	TON	\$ 150.00	\$ 3,702
15	PLANTINGS	1	EA	\$ 35,000.00	\$ 35,000
16	UTILITY RELOCATIONS	1	LS	\$ 5,000.00	\$ 5,000
17	CONCRETE CURB AND GUTTER	300	LF	\$ 7.00	\$ 2,100
18	ROADSIDE RESTORATION	1	LS	\$ 5,000.00	\$ 5,000
Subtotal Construction Elements					\$ 315,156
<i>Required Ancillary Items</i>					
17	EROSION & SEDIMENTATION CONTROL		10%	(see note 3)	\$ 31,600
18	TRAFFIC CONTROL		10%	(see note 4)	\$ 31,600
19	CONTINGENCY		30%		\$ 94,600
Subtotal Ancillary					\$ 157,800
Subtotal Construction + Ancillary					\$ 472,956
<i>Mobilization</i>					
20	MOBILIZATION		10%		\$ 47,296
Subtotal Construction + Ancillary + Mobilization					\$ 520,252
<i>Tax/Engineering/Management/Permitting</i>					
21	STATE SALES TAX		9.5%		\$ 49,500
22	ENGINEERING/LEGAL/ADMIN		25%		\$ 130,100
23	CONSTRUCTION MANAGEMENT		10%		\$ 52,100
24	LAND ACQUISITION (STORMWATER UTILITY EASEMENT)		4%		\$ 20,900
25	PERMITTING		5%		\$ 26,100
Subtotal					\$ 278,700
Subtotal Construction + Ancillary + Mobilization + Tax/Engineering/Management/Permitting					\$ 798,952
2012 Dollars	Total Estimated Project Cost (Rounded)				\$ 799,000

Notes:

- The above cost opinion is in 2012 dollars and does not include future escalation, financing, or O&M costs.
- The order-of-magnitude cost opinion has been prepared for guidance in project evaluation from the information available at the time of preparation and for the assumptions stated. The final costs of the project will depend on actual labor and material.
- Increase percentage markup if work is in or immediately adjacent to flowing or standing water, steep slope, and/or other erosion-prone conditions.
- Increase percentage markup if work is in or immediately adjacent to secondary, arterial, or other high-volume road or temporarily closes a roadway.
- Land Acquisition unit costs include Administrative Costs and Condemnation and are based on a unit price of \$8/SF. These costs are not the assessed value of the property.



CIP 7

25th Ave SW Drainage Improvements

May 2012

City of Burien: CIP Project Summary Sheet

PROJECT SKETCH

PROJECT TITLE:

**CIP #8: 4th Ave S/Blake Manor
Neighborhood Drainage
Improvements**

City to Provide

PROJECT LOCATION (OTAK IDs):

4th Ave S between S 168th St and S 165th St (48)

PROBLEM DESCRIPTION:

There is no existing stormwater system causes localized flooding of the roadway.

PROJECT DESCRIPTIONS:

Add new stormwater system along both sides of 4th Ave S from S 165th St to S 168th St that includes ~2,610 linear feet of 12-inch pipe and 14 new catch basins (7 on each side of the street). Provide outfall protection at the outlet into Miller Creek. Provide treatment to roadway runoff with 14 StormFilter catch basins (1 to 2 cartridges each).

DESIGN CONSIDERATIONS:

- Outfall location into a fish bearing stream.
- Outfall protection at the stream.
- Right-of-way limits
- Water Quality Treatment
- Annual Maintenance of StormFilter
- Alternative Design: LID, green street approach

ESTIMATED PROJECT COSTS:

\$639,000

PROJECT LOCATION PHOTOS



PLANNING LEVEL PROJECT COST OPINION

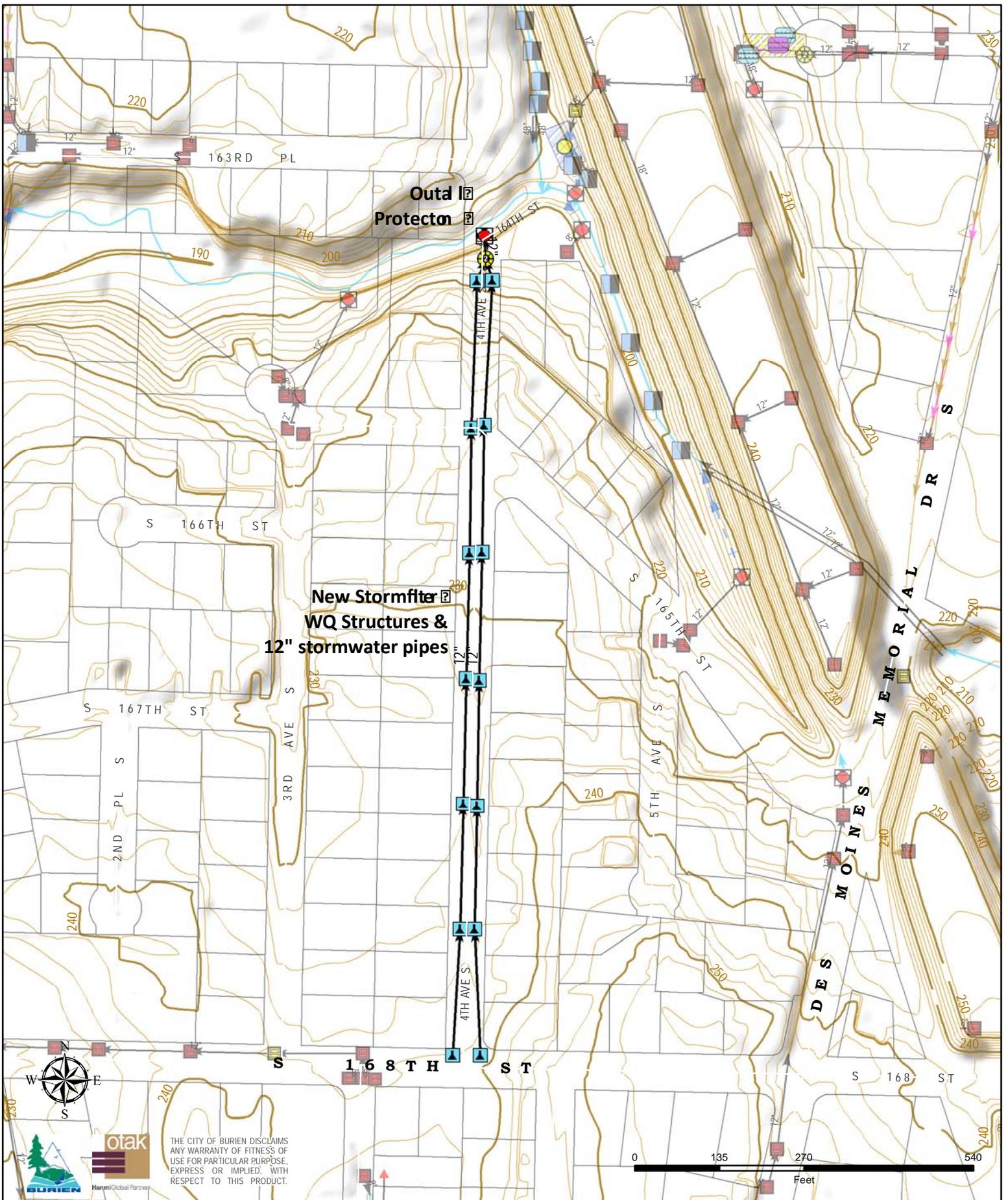
PROJECT: 4th Ave S/Blake Manor Neighborhood Drainage Improvements
PROJECT ID: CIP 8
BY: JSA

CHECK BY: JLC
DATE: 04/25/2012

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<i>Construction Elements</i>					
1	REMOVING ASPHALT CONC. PAVEMENT	506	SY	\$ 40.00	\$ 20,223
2	SAWCUTTING	2,607	LF	\$ 4.00	\$ 10,428
3	STRUCTURE EXCAVATION CLASS B INCL. HAUL	843	CY	\$ 7.00	\$ 5,899
4	CORRUGATED POLYETHYLENE STORM SEWER PIPE, 12-IN DIAM	1,300	LF	\$ 25.00	\$ 32,500
5	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	317	CY	\$ 55.00	\$ 17,432
6	GRAVEL BORROW INCL. HAUL	870	TON	\$ 30.00	\$ 26,110
7	CATCH BASIN TYPE 1	14	EA	\$ 1,500.00	\$ 21,000
8	STORMWATER OUTFALL	1	EA	\$ 5,000.00	\$ 5,000
9	ASPHALT TREATED BASE	180	TON	\$ 150.00	\$ 27,049
10	HMA, CL 1/2-IN PG	65	TON	\$ 150.00	\$ 9,776
11	UTILITY RELOCATIONS	1	LS	\$ 20,000.00	\$ 20,000
12	STORMFILTERS	2	EA	\$ 25,000.00	\$ 50,000
13	ROADSIDE RESTORATION	1	LS	\$ 5,000.00	\$ 5,000
Subtotal Construction Elements					\$ 250,417
<i>Required Ancillary Items</i>					
12	EROSION & SEDIMENTATION CONTROL		10%	(see note 3)	\$ 25,100
13	TRAFFIC CONTROL		10%	(see note 4)	\$ 25,100
14	CONTINGENCY		30%		\$ 75,200
Subtotal Ancillary					\$ 125,400
Subtotal Construction + Ancillary					\$ 375,817
<i>Mobilization</i>					
15	MOBILIZATION		10%		\$ 37,582
Subtotal Construction + Ancillary + Mobilization					\$ 413,399
<i>Tax/Engineering/Management/Permitting</i>					
16	STATE SALES TAX		9.5%		\$ 39,300
17	ENGINEERING/LEGAL/ADMIN		25%		\$ 103,400
18	CONSTRUCTION MANAGEMENT		10%		\$ 41,400
19	PERMITTING		10%		\$ 41,400
Subtotal					\$ 225,500
Subtotal Construction + Ancillary + Mobilization + Tax/Engineering/Management/Permitting					\$ 638,899
2012 Dollars Total Estimated Project Cost (Rounded)					\$ 639,000

Notes:

- The above cost opinion is in 2012 dollars and does not include future escalation, financing, or O&M costs.
- The order-of-magnitude cost opinion has been prepared for guidance in project evaluation from the information available at the time of preparation and for the assumptions stated. The final costs of the project will depend on actual labor and material.
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Outfall
Protecton

New Stormfilter
WQ Structures &
12" stormwater pipes



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<p>CIP 8</p>	<p>4th Ave S/Blake Manor Neighborhood Drainage Improvements</p>	<p>May 2012</p>
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City of Burien: Watershed Based Studies Summary Sheet

The following studies are recommended to address problem areas that require a specialized investigation to determine the background source of the drainage issues or problem areas that require an extensive watershed study to identify the preferred long term solution.

Project Location (Otak IDs)	Problem Description	Study Description	Estimated Cost
Study 1 Lake Burien System Retrofit			
Lake Burien/Miller Creek Watershed (90, 117, 118)	Flooding and water quality issues in Lake Burien and downstream system to Miller Creek.	Evaluation of water quality retrofit opportunities in Lake Burien drainage basin and capacity evaluation for downstream system.	Study Cost: \$250,000
Study 2 NERA Master Drainage Plan			
	Regional stormwater plan needed to support NERA development.	Master Drainage Plan to locate and design regional stormwater management facilities to serve future redevelopment.	Study Cost: \$350,000
Study 3 Des Moines Memorial Drive and S 175th St Sediment Study			
Des Moines Memorial Drive S and S 175th St (38, 87)	Sediment accumulation behind a recently installed beaver deceiver is causing flooding of the roadway.	Sediment Management Study source tracing and alternatives analysis to address ongoing sediment accumulation.	Study Cost: \$100,000
Study 4 Hermes and Mayfair Depressions Master Plan			
Hermes Depression, Mayfair Depression (10, 19)	Flooding occurs in the Hermes and Mayfair Depressions. Long term regional stormwater management needed.	Study cost effective options for water quality retrofit and possible bypass of higher flows. Consider recommendations in Miller and Walker Creeks basin plan.	Study Cost: \$200,000
Study 5 142nd Street Depression Improvements			
142nd St Depression (25, 26, 27, 85)	Two detention ponds are connected, but have no outlet. During large rainfall events the pond overflow and flood public ROW and adjacent private property.	Geotechnical investigation to confirm infiltration capacity. Alternatives analysis to identify preferred solution retrofitting of the 142 nd depression and/or modifying FEMA floodplain map.	Study Cost: \$200,000
Study 6 Arbor Lake Water Quality Lake Management Plan			
Arbor Lake (127)	There are water quality issues in the lake including algae blooms and no swimming warnings in the summer.	Establish Water Quality monitoring Program and develop a Water Quality Lake Management Plan.	Study Cost: \$150,000
TOTAL			\$1,150,000

City of Burien: Small Works Projects Summary Sheet

Small Works Projects

Small Works Projects are projects that will be designed by City Engineering Staff and constructed by City Maintenance Staff or contractors from the City's Small Works Roster. Projects have straight forward design (no specialized analysis required) and an estimated construction cost under \$100,000 per project.

Project Location (Otak IDs)	Problem Description	Small Works Project Description
SWP 1 Ambaum Blvd SW/SW 120th Block Drainage Improvements		
Ambaum Blvd SW and SW 120th Block (119)	No existing stormwater system causes localized flooding of the roadway.	Add new CB and pipe to existing system in the low point in the road
SWP 2 Occidental Ave S Drainage Improvements		
Des Moines Memorial Drive S and S 116th St - S 118th St	Overland erosion on both sides of street. Runoff from the roadway floods a local property owner.	Repave road and install asphalt berms to keep stormwater within public ROW. There is a 12" high pressure gas main, which means installing a new stormwater system may be impossible.
SWP 3 Eagle Landing Park/25th Ave SW Drainage Improvements		
25th AVE SW (Near House #14639)/Eagle Landing Park	Overland erosion caused by public water onto private property.	Install a dispersion trench into the park to divert water over a larger area into the park and away from private property. This project will also require install 150 linear feet of 12-inch pipe and 3 new catch basins.
SWP 4 116th Ave SW between 1st Ave and 4th Ave SW at Church Drainage Improvements		
116th Ave SW between 1st Ave SW and 4th Ave SW	There is a 30" pipe that drains to an existing ditch (City has a 10' easement) adjacent to a church parking lot that abruptly ends. Water disperses into a forested area then drains to an existing pipe and then into an existing detention pond. The dispersion into the wooded area causes the water to slow down and silt up behind the existing pipe.	Install new stormwater system on existing 10' easement from the church property to the downstream pond. (This solution needs some further refinement/discussion).

Public Comments on Draft SDMP

1. Are there any additional concerns or challenges related to the City's Stormwater Program that should be added to the Executive Summary?

Comment	Commenter	Response
We are pleased with your list of projects; however, we are very concerned about the lack of money.	Robbie Howell	<i>Thank you.</i>
Public input has been minimal	Lee Moyer	<i>Public involvement has included a public survey on the web, two advisory committee meetings, a public meeting, the advisory committee review of the draft plan, and the public process at upcoming City Council meetings. There is not a requirement for additional public involvement in development of the plan. The City also has an ongoing process to receive and evaluate drainage problem areas and welcomes further comment through that process.</i>
Add drainage improvement work on 152 nd from 11 th to 20 th S.W.	Bob Edgar	<i>Two capital projects are proposed adjacent to 152nd - one at SW 8th and one at SW 20th. Additional drainage challenges along 152nd have been referred to the City's Maintenance Department. The DMP also identifies the potential to study stormwater system retrofits surrounding Lake Burien (Study #1).</i>
Study on storm water issues in Area Y needs to be done <u>before</u> annexation is allowed as stated in the Drainage Master Plan. It is unethical for the City to do otherwise.	Bob Edgar	<i>Evaluating impacts of possible future annexation is outside the scope of this Drainage Master Plan. This plan outlines the stormwater programs and capital projects to address the City's existing service area. A plan update would be considered at some point in the future if additional areas are annexed into the City.</i>
Discussion the inadequacy of resources for storm water management in the Lake Burien neighborhood and the need to change the current land designation to Low Density.	Bob Edgar	<i>Zoning changes are considered through the City's Comprehensive Plan and are outside the scope of the Drainage Master Plan. The DMP identifies the potential to study stormwater system retrofits surrounding Lake Burien (Study #1).</i>
The need for watershed-level strategies for mitigating storm water.	Bob Edgar	<i>The Drainage Master Plan includes recommendations for watershed studies and basin plans to evaluate additional drainage, water quality, and habitat concerns.</i>

2. The City is obligated to comply with increasing NPDES permit requirements that come into effect in August 2013. The permit requires the City to develop operational activities outlined in Section 3 of the Draft Plan (Public Outreach, Illicit Discharge Inspections, Development Review, and Infrastructure Maintenance, etc). These requirements will put added strain on the City's stormwater program budget. If additional resources are available, where would you like to see funding prioritized: a. Major Capital Projects such as regional stormwater facilities, b. Small Drainage Improvements such as adding catch basins and drainage swales, c. Replacing Aging Stormwater Infrastructure, d. Water Quality Monitoring, e. Habitat Enhancement Projects, f. Other (list)

Comment	Commenter	Response
All of the above are important items and in addition the city needs to slow the drainage velocity flowing into Lake Burien during heavy rainstorm events. The rapid force of the water around the edges of the lake destroys fish and wildlife habitats. Water retention ponds need to be put in place to clean the water and slow it down.	Robbie Howell	<i>Thank you for your input on program funding priorities. These comments will be considered when developing the budget.</i>
I lack the information re city programs and time to prioritize the above. A proper street sweeper and sweeping program will do more for overall water quality than one of the above. Use pervious pavement for new streets or major repaving.	Lee Moyer	<i>Thank you for your input on program funding priorities. These comments will be considered when developing the budget.</i>
1st Priority - Replacing Aging Stormwater Infrastructure, 2nd Priority - Water Quality Monitoring, 3rd Priority - Small Drainage Improvements such as adding catch basins and drainage swales	Bob Edgar	<i>Thank you for your input on program funding priorities. These comments will be considered when developing the budget.</i>

3. In reviewing the Watershed Enhancement Program (Section 5) what messages, methods, and audiences would you like to see the City target over the next 1-3 years?

All of the methods and messages in Section 5 are excellent. Target School children and the general population.	Robbie Howell	<i>The City will consider these priorities when developing messaging and outreach materials.</i>
Car wash policy to all schools and potential hosts.	Lee Moyer	<i>The City will consider these priorities when developing messaging and outreach materials.</i>
Educate police dept, fire dept, fleet operators, car service businesses etc re car washing.	Lee Moyer	<i>The City will consider these priorities when developing messaging and outreach materials.</i>
Ask contractors what policy obstacles there are to LID.	Lee Moyer	<i>The City will consider these priorities when developing messaging and outreach materials.</i>
Citizens groups through collaboration with ESC and Sustainable Burien	Bob Edgar	<i>The City will consider these priorities when developing messaging and outreach materials.</i>
Citizen outreach through written flyer and articles in the media and at city events	Bob Edgar	<i>The City will consider these priorities when developing messaging and outreach materials.</i>
School district grounds maintenance techniques and education for kids	Bob Edgar	<i>The City will consider these priorities when developing messaging and outreach materials.</i>
City-Sponsored demonstration sites - rain garden/projects for the public to view	Bob Edgar	<i>The City will consider these priorities when developing messaging and outreach materials.</i>

Public Comments on Draft SDMP

4. Would you be interested in volunteering with the City’s Watershed Enhancement Program, Basin Stewardship Program, or other outreach activities? If so, please provide contact information.

Several citizens responded that they would like to be involved and provided contact information	<i>This information will be shared with our Basin Steward for inclusion on future activities.</i>
-------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------

5. Other comments, questions, or concerns:

The Ambaum project discussed on Page 4-13 was not “constructed”, but instead was an existing facility that was “expanded by 7.5 acre feet”	Alissa Ostergaard	<i>This will be changed in the plan.</i>
I am wondering if we are able to find out the layout of the projects and what will be included and what will be cut due to budgets? There are a lot of pages of information and I am confused about what is relevant to us.	Kathy Johnson	<i>The proposed map is included as Figure 4-4. Additional projects will be identified through the watershed studies and the City's ongoing process of evaluating drainage problem reports. (Note: CIP #6 addresses the drainage problem reported outside Ms. Johnson's business.)</i>
We would like to see low impact development for all new construction to help protect the environment for future generations.	Robbie Howell	<i>As part of the new NPDES Phase II Permit, LID evaluations will be required for all new construction that meets size thresholds.</i>
Per the appendix the A C is the “primary mechanism for public comments” In my opinion this is not meeting the “ongoing opportunities for public involvement...”.	Lee Moyer	<i>Public involvement has included a public survey on the web, two advisory committee meetings, a public meeting, the advisory committee review of the draft plan, and the public process at upcoming City Council meetings. There is not a requirement for additional public involvement in development of the plan. The City also has an ongoing process to receive and evaluate drainage problem areas and welcomes further comment through that process.</i>
Under abbreviations and acronyms add C B. City of Burien? Collection Basin?	Lee Moyer	<i>Will be added to the plan.</i>
Table ES-1 shows .05 FTE for public involvement with no future change. It doesn't seem to be enough.	Lee Moyer	<i>In addition to the 100 hours/yr for public involvement, the plan recommends 0.15 FTE (300 hrs/yr) for public outreach activities and 0.1 FTE (200 hrs/yr) for coordination with regional watershed programs, primarily King County's basin stewardship program.</i>
Page ES-7. Where do we find the outreach and education program in the first Para?	Lee Moyer	<i>The City's public education activities come in a variety of forms. Recent activities are documented in Elements 1 and 10 of Appendix 3-2.</i>
Page 1-3. Per “Preserve, protect and restore natural habitat for salmonid species” We need a SWP to remove the salmon barrier near the mouth of the Salmon Creek.	Lee Moyer	<i>This problem area will be added to the City's ongoing problem evaluation process.</i>
Fig 3-2, item 4 Why does it take to the middle of 2016 to update codes re LID?	Lee Moyer	<i>This figure depicts the deadlines in the proposed NPDES Phase II Permit. The City will need to begin the process of updating codes for LID much earlier in order to meet the permit deadline. Additional funding and staff time has been recommended starting in 2013.</i>
Page 3-4 Where is the LID info given to target audiences?	Lee Moyer	<i>Clarification will be added to the plan. The Environmental Science Center holds LID workshops. Materials are also available through a display at the Community Center, City website, Newsletter, and Posters. Developers are also given information during pre-application meetings with City staff.</i>
Page 3-4 and P 5-1 How many car wash kits are available? How does a group get one? How are they publicized?	Lee Moyer	<i>Clarification will be added to the plan. The City has three kits currently. The kits are publicized via newsletter, city website, public outreach (by visiting businesses). Citizen can borrow kits by completing a checkout form. The city provides the kit installation instruction during check out.</i>
Page 3-5 Is the IDDE hotline 24 hrs a day? Who mans it?	Lee Moyer	<i>Yes. The hotline records messages when City staff are not available to answer the phone. Emergency problems should be reported to emergency services.</i>
Page 3-5 “IDDE training for all staff” of Dept of Public works?	Lee Moyer	<i>Clarification will be added to the plan. Training is for all staff with field responsibilities, which includes building inspectors and staff in community development as well as public works.</i>
Page 3-7 How often and where does street sweeping take place? What type of street sweeper? Who does it, since the appendix says the city does not own one.	Lee Moyer	<i>Clarification will be added to the plan. Street sweeping is contracted to King County. Every street in Burien gets swept at least twice per year; downtown streets and arterials get swept much more frequently.</i>
Page 3-14 “Conduct...car washing.” What are the current efforts?	Lee Moyer	<i>Clarification will be added to the plan. Current efforts include car wash kits and educational messaging. The City conducted an initial survey several years ago to establish a baseline in which to measure the effectiveness of messaging and materials that were distributed during the current permit term.</i>
There is what seems to be a closed depression on the north side of SW 118th St at about 10th or 11th SW. A good storm floods the yard and driveway and seems to go under a house. It appears to be an inexpensive rental with tenants who would have no idea about what to do about it. This is the type of citizen who is completely missed by the DMP outreach efforts.	Lee Moyer	<i>This problem area will be added to the City's ongoing problem evaluation process.</i>

Public Comments on Draft SDMP

<p>I did not have time to wade through the appendices. The printed copy was too small to read and expanding the online copy to readable size made it awkward to follow.</p>	<p>Lee Moyer</p>	<p><i>To our best efforts, the appendix information has been summarized in the plan text.</i></p>
<p>The October, 2011 Best Available Science draft document recently completed for the City, states that storm water issues need to be addressed at the drainage basin/watershed level. The uplands within a watershed need to have active, functioning infiltration systems rather than having storm water collected in underground pipes that circumvent upland infiltration. This requirement for upland infiltration needs to be added to the Drainage Master Plan.</p>	<p>Bob Edgar</p>	<p><i>This type of requirement would need to be considered as part of a modification to the City's development standards and/or stormwater design manual. The plan recommends that the City adopt Ecology's required standards for new development and redevelopment. These new standards will require an evaluation of the use of LID (which emphasizes infiltration over collection/conveyance) for all new construction that meets size thresholds.</i></p>
<p>The Drainage Master Plan Advisory Committee needs to have another meeting before this Drainage Master Plan goes to the City Council.</p>	<p>Bob Edgar</p>	<p><i>Public involvement has included a public survey on the web, two advisory committee meetings, a public meeting, the advisory committee review of the draft plan, and the public process at upcoming City Council meetings. There is not a requirement for additional public involvement in development of the plan. The City also has an ongoing process to receive and evaluate drainage problem areas and welcomes further comment through that process.</i></p>
<p>I don't see a plan to take care of the flooding along 152nd S.W. from 11th to 18th S.W. We submitted photos of this ongoing problem and it didn't get put in the plan. When the storm water drains into the lake get covered in a rain storm-from rapid run off-the storm water drains back flow back into the street. This floods the street, driveways, sidewalks and yards. The storm water then picks up other pollutants from the street and yards. When the storm water finally drains back and enters the lake it carries additional silt and more added non point pollutants. This contributed to the toxic algae and excessive algae blooms in the lake in 2010-2011. Again we had a problem with this in the winter of 2011. Is there no plan to fix this?</p>	<p>Chestine Edgar</p>	<p><i>Two capital projects are proposed adjacent to 152nd - one at SW 8th and one at SW 20th. Additional drainage challenges along 152nd have been referred to the City's Maintenance Department. The DMP also identifies the potential to study stormwater system retrofits surrounding Lake Burien (Study #1).</i></p>
<p>Some of the oil separators that cover there storm drains are cracked/broken and some of the drains are missing separators. I didn't see those on the list to be repaired or replaced. Were they someplace in the plan?</p>	<p>Chestine Edgar</p>	<p><i>The plan recommends increasing catch basin inspection frequency. The inspections will identify needed repairs to existing facilities.</i></p>
<p>Some of the properties on the back side of the lake 156th-158th flood because the properties were short platted as the EIS in the Comp Plan advised against-Chapter 5. What is being done to keep any more of these short plattings from happening or to require LID for future developments? I saw no discussion of this problem. Was there one?</p>	<p>Chestine Edgar</p>	<p><i>Zoning changes are considered through the City's Comprehensive Plan and are outside the scope of the Drainage Master Plan.</i></p>
<p>The Drainage Plan states that there should be a study done before any new annexation is allowed. An annexation is being considered but I do not see the study on the list of things to do or a budgeted amount for it. Did I miss it?</p>	<p>Chestine Edgar</p>	<p><i>Evaluating impacts of possible future annexation is outside the scope of this Drainage Master Plan. This plan outlines the stormwater programs and capital projects to address the City's existing service area. A plan update would be considered at some point in the future if additional areas are annexed into the City.</i></p>
<p>The Berk Draft Plan projects that Area Y will need \$23 million dollars in the first 5 years for storm water, if it is annexed. This cannot come from the sales tax credits. In 2012, the storm water revenues brought in \$2.5 dollars for Burien, a city of 48,000. Area Y has only 17,000 residents and will not even bring in as much as the City of Burien. The storm water revenues will not cover the required dollars that must immediately go up to Area Y. Where is it in the plan that discusses not only the needs of Burien but how revenue shortfall problems will be dealt with in an emergency?</p>	<p>Chestine Edgar</p>	<p><i>Evaluating impacts of possible future annexation is outside the scope of this Drainage Master Plan. This plan outlines the stormwater programs and capital projects to address the City's existing service area. A plan update would be considered at some point in the future if additional areas are annexed into the City.</i></p>
<p>As Burien is basically built out in some areas of the Miller Creek basin, I did not see a discussion on strategies to help reduce the problem with storm water run off by removing grass from our parks and turning them back to native plantings and pervious surfaces. Also I saw no discussion about working with the school district to get the schools to remove their lawns and put in native plantings. Did I miss it?</p>	<p>Chestine Edgar</p>	<p><i>The City encourages the use of native landscapes through the Natural Lawn Care program.</i></p>
<p>I didn't see the plan for the storm water development that is need for NERA. Did I miss it? Who is going to be the lead agency on it and manage it? I thought I read in the NERA EIS, that would be the responsibility of the major land holder developer. Who will be responsible?</p>	<p>Chestine Edgar</p>	<p><i>The City has recently acquired a grant to fund evaluation, design, and construction of new facilities in the NERA. Stormwater facilities are a major component of the NERA plan.</i></p>
<p>Some of the members of the committee told me that they got a questionnaire with email. None was attached to mine that I could find. However if we had more monies, I would vote to have it go to capital projects in the current City of Burien. I highly doubt that is going to happen. I would be willing to continue to work as a volunteer for the Lake Burien and the part of the Miller Creek Basin it is involved in. Yes, swales and ditches will need to need to be funded and increased upland of us to help reduce the flooding problems.</p>	<p>Chestine Edgar</p>	<p><i>We apologize that you did not get the questionnaire attached to the email. Thank you for responding to the questions. These comments will be considered by Council when setting program priorities and budget.</i></p>

Public Comments on Draft SDMP

<p>The document was in error when it said that the monitoring of Lake Burien ended in 2004. As residents, we have privately continued to monitor the water quality up until now-2012. And we have kept the data in our records or with the University of Washington. We have used the University of Washington and private labs to do the water testing. We continued to do the visual testing and physical sample testing through our lake steward program. We have commissioned and paid for 3 private large studies on the lake by wetlands and fresh water specialists in the last 5 years. The data from those studies is in the Shoreline Master Plan-technical documents. Also, you can contact me for the documents.</p>	<p align="center">Chestine Edgar</p>	<p><i>This information will be added to the plan.</i></p>
<p>Perhaps what remains the most frustrating issue for us in the Lake Burien Neighborhood/Miller Creek Basin is that land use which the EIS said should not happen has been allowed around the lake and upland of the lake. Since 1999, the residents of this neighborhood have asked the city not to allow this. And each time we have spoken out the city has refused to listen to us and has insisted this land use be moderate density. One of the city staff's arguments has been the storm water facilities around the lake are adequate or if they are not, the city has the revenues to immediately take care of the problem. Therefore our request for low density land use should be ignored. As you know from this plan and the citizen reports of the ongoing flooding problems and declining water quality, the facilities are not adequate and there are not enough available resources to take care of the storm water problems in our area in the near future. It gets very tiring to be constantly lied to. This problem inappropriate of land use- without adequate resources or regulation- and its impact on storm water was not discussed in the plan.</p>	<p align="center">Chestine Edgar</p>	<p><i>Zoning changes are considered through the City's Comprehensive Plan and are outside the scope of the Drainage Master Plan.</i> <i>Lake Burien is currently on the State 303(d) list as a Category 1 ("Meets Tested Criteria") water body. Ecology is currently in the process of updating the 303(d) list for freshwater systems using data contributed through the State's Water Quality Assessment process.</i> <i>Drainage issues in surrounding neighborhoods have been included in the capital programs recommended in this plan.</i></p>
<p>Lastly, there is a pet day care/boarding facility that has been allowed to be put into next door to the CARES facility. They put gavel down on top of a black topped surface in front of the building. This surface is impervious. Here is where the dogs go out to exercise, pee and poop. The drainage from this area drains directly into the storm water drains. We have some good photos of it. Animal waste is not supposed to be allowed to do this. As the Drainage plan mentions there is an ordinance that prohibits this. Please enforce this ordinance and have this business develop a pervious surface area for animals to deposit their wastes. Right now this illegal drainage is entering the drains that lead to the lake. If I have reported this situation incorrectly, please feel free to let me know.</p>	<p align="center">Chestine Edgar</p>	<p><i>The City previously received this complaint and investigated the situation through the Illicit Discharge program. The facility is not in violation of the city's illicit discharge ordinance.</i></p>
<p>I would recommend a meeting with the Drainage Master Plan Committee before this document to the City Council.</p>	<p align="center">Chestine Edgar</p>	<p><i>Public involvement has included a public survey on the web, two advisory committee meetings, a public meeting, the advisory committee review of the draft plan, and the public process at upcoming City Council meetings. There is not a requirement for additional public involvement in development of the plan. The City also has an ongoing process to receive and evaluate drainage problem areas and welcomes further comment through that process.</i></p>

**CITY OF BURIEN
AGENDA BILL**

Agenda Subject: Review of Council Proposed Agenda Schedule		Meeting Date: June 18, 2012
Department: City Manager	Attachments: 1. Proposed Meeting Schedule 2. Study Session Topics 3. Council Retreat Notes	Fund Source: N/A Activity Cost: N/A Amount Budgeted: N/A Unencumbered Budget Authority: N/A
Contact: Monica Lusk, City Clerk		
Telephone: (206) 248-5517		
Adopted Initiative: Yes No <input checked="" type="checkbox"/> X	Initiative Description: N/A	
PURPOSE/REQUIRED ACTION:		
The purpose of this agenda item is for Council to review the proposed City Council meeting schedule. New items or items that have been rescheduled are in bold.		
 BACKGROUND (Include prior Council action & discussion):		
According to City Council policies, the proposed meeting schedule is reviewed during the last meeting of each month.		
 OPTIONS (Including fiscal impacts):		
<ol style="list-style-type: none"> 1. Review the schedule, and add, delete, or move items. 2. Review the schedule and make no modifications. 		
Administrative Recommendation: Review the schedule and provide direction to staff.		
Committee Recommendation: N/A		
Advisory Board Recommendation: N/A		
Suggested Motion: None required.		
Submitted by: Monica Lusk Administration _____	Mike Martin City Manager _____	
Today's Date: July 11, 2012	File Code: R:/CC/AgendaBill2012/071612cm-2 proposedagendareview.doc	

**CITY OF BURIEN
COUNCIL PROPOSED AGENDA SCHEDULE
2012**

July 23, 6: 7:00 p.m. Council Study Session

Presentation of Financial Forecast.

(Finance)

Discussion on Economic Development.

(City Manager)

August/September

1. 1st Public Hearing for 2013-14 Budget.
(Finance)
2. 2013-14 Budget Discussion
(Finance)
3. Financial Policies Discussion
(Finance)
4. Motion to Adopt Drainage Master Plan
(Public Works)
5. Discussion on Potential Employee Benefit Change.
(Human Resources)
6. **Discussion on Granting Cable Franchise to Comcast of Washington IV, Inc.**
(Legal)
7. Shoreline Master Program Update.
(Community Development)
8. **Motion to Adopt Ordinance Granting a Non-Exclusive Cable Franchise to Comcast of Washington IV, Inc.**
(Legal)
9. **8/27 Study Session – Topic to be determined.**
10. Discussion on Highline Forum's Revised Mission.
(City Manager)
11. Review of Proposed Council Agenda Schedule.
(City Manager)
12. City Business.
(City Manager)

STUDY SESSION TOPICS 2012

Identified at Retreat

1. Advisory Boards
2. Outreach to Diverse Groups
3. Kids and Cops
4. Economic Development
(preliminary discussion held at
6/4 Council meeting; scheduled
for 7/23)
5. Storm Water Management
6. Transportation Improvement
Program
7. Wellness Cluster Initiative

Identified at Meetings

8. Review of Council Policies and
Procedures
9. Community Recreation Center
10. King County Historic Preservation
Program (Rose)

(Facilitator Retreat Notes and this evolving list of topics
will be included in the Study Session packet)

DISCUSSION SCHEDULE:

Liquor and B&O Taxes – April 23, 2012

Economic Development – Scheduled for July 23, 2012

Burien
City
Council
Annual
Retreat
Summary

January 28

2012

Summary of notes from the day

2012 Annual
retreat notes

Burien City Council
Retreat Notes
Revised January 28, 2012

Open Space Session Notes

1. Session Title: Advisory Boards

Convener: Rose

Those attending: Lucy, Michael, Bob

Key Themes and Notes:

- Are we in the right place for current needs?
- **BEDP, Planning, Arts, Parks**, Teen Council, Senior Advisory Board
- What do we want?
- Roles? What do ordinances say?
- Do we need different ones? Education?
- Permanent standing committees/Boards
- Consensus- Education Adv/Levy
- Liaison with all Boards
- Shift in scope volunteer vs. Advisory

Next Steps:

- Study session to review ordinances/roles- 1) BEDP/ 2) Others
- Take input from existing members
- Spell out factors/criteria for filling vacancies
- Integrate involvement in work plan items

2. Session Title: Diverse Community Outreach

Convener: ?

Those attending: Lucy, Angie, Craig, Brian, Bob, Janet, Scott G, Joan

Key Themes and Notes

- Trust in Law Enforcement
- Business opportunities
- Community involvement
 - Boards/Groups/Associations
 - Government
- Enhancing communication

Next Steps

- Existing programs to help communication
- Develop more internal/external communication networks
- Effective creation and/or participation in cultural events
- Participate in other culture media

Burien City Council
Retreat Notes
Revised January 28, 2012

3. Session Title: Economic Development

Convener: Dan Trimble

Those attending: Jack, Jerry, Janet, Scott, Bob

Key Themes and Notes

Attracting Business

- Auto Mall (Auto Center)
- Better use of assets
 - P.A.C., Ticket tax & promotion
- Special events
- Marketing Strategy
 - Recruitment
- Vacant Store fronts
 - Tax
 - Art Galleries
 - Window painting
- Business retention
- Business Expansion
- Merchant groups
 - BEDP
- BEDP Focus
- Chamber of Commerce
 - Burien focused
- Parking (more)
- Impact fees

Next Steps

More outreach
Regional retail & small chains
Council Members recruit
Office Incubator

BEDP engaged
matching funding

Propose to CC (here or
under Impact fees)

4. Session Title: Kids and Cops

Convener:

Those attending:

Key Themes and Notes:

- Identify key players
- Identify possible stakeholders
- Obtain grassroots support/involvement
- Identify specific outcomes

Burien City Council
Retreat Notes
Revised January 28, 2012

Next Steps:

- Staff to staff conversation (principals)
- Council discussion re: identified issues
- Contact w/ School district
- Council/HSD Retreat
- Develop strategic Plan
 - Timeline
 - Performance measures

5. Session Title: Liquor and B & O Taxes

Convener: Jerry

Those attending: Nhan, Scott, Maiya, Kim

Key Themes and Notes

- B & O tax
 - State collection
- Reduce Costs
- Liquor Tax
 - Sales Tax
 - B & O Tax

Next Steps

- What is being done at State level?
- Bring it in-house
 - Cost?
 - Control
- Repeal RCW that prohibits Local B & O

6. Session Title: Stormwater and TIP

Convener: Joan

Those attending: Craig, Kim, Maiya

Key Themes and Notes

- NPDES flexibility
 - LID program
 - 2 year development period
- Marine/Lake Burien homeowner support
 - Stormwater improves quality of life, ED
- TIP- long term planning for street repair

Burien City Council
Retreat Notes
Revised January 28, 2012

Next Steps

- Seek Fed/State demonstration grants for Miller Creek
- Look for effective model ordinances
- Surface water rate increase
- Council agreement/conversation
- Education/outreach for LID (ESC)
- TIP management plan

7. Session Title: Wellness Cluster

Convener: Rose

Those attending: Jack, Dan, Michael, Mike

Key Themes and Notes

- Is it working?
 - Business people/Educators not on the same page re: vision/goals
- Success in some areas, but lack of stakeholder buy-in, organization and focused leadership
- Lack of clear steps to accomplish vision/mission

Next Steps

- Formalize structure and approach: Membership, structure and leadership
 - If not, sunset it
- Shift leadership to stakeholders
- Liz Heath/Capacity building

Burien City Council
Retreat Notes
Revised January 28, 2012

Headlines and Next Steps

Advisory Boards

- Are existing boards the right ones? There are some required by statute/ordinance. We need to understand what is really required
- Do we need different boards? Do we need an Education Board for example?
- Schedule study sessions re: BEDP and then others
- Make criteria for membership explicit
- Integrate their involvement with Work Plan as appropriate so they have input
- Reinstating Council liaison to all Boards
- Make process explicit for selecting board members
- Boards could be clearly linked to Vision and how they contribute

Next Steps:

- Study session to review ordinances/roles- 1) BEDP/ 2) Others
- Take input from existing members
- Spell out factors/criteria for filling vacancies
- Integrate involvement in work plan items

Economic Development

- Business attraction and retention
- Focus of existing groups- do they meet the community needs? Do they need to be shifted to city-wide, region, vs. micro-focus?
- Business outreach
- Image and impediments
- Marketing
- Impact fees
- Improving/enhancing store fronts
- Special events in city to bring people in
- Town Square
- Auto Center

Next Steps

- More outreach
 - Regional retail & small chains
 - Council Members recruit
 - Office Incubator
- BEDP engaged

Burien City Council
Retreat Notes
Revised January 28, 2012

- Matching funds
- Parking or Impact Fees?

Diverse Community outreach

- Develop level of trust in law enforcement
- Understand boundaries re: cultural behavior that can take place
- Communication- improve it, reach out
- We need to reach out to them, their existing events, meet them in their cultural environments
- Increase participation in local govt
- Develop soccer leagues
- ESL
- Create an extended day option as part of Kids and Cops for Homework assistance and sports; can include officers playing sports with kids (Basketball)
- Reexamine renters rights to ensure they feel comfortable asking questions

Next Steps

- Existing programs to help communication
- Develop more internal/external communication networks
- Effective creation and/or participation in cultural events
- Participate in other culture media

Kids and Cops

- ID key stakeholders
- Get grass root support
- Staff to staff conversation about how to move forward
- Council discussion simultaneously
- Contact school district for work session/retreat

Next Steps:

- Staff to staff conversation (principals)
- Council discussion re: identified issues
- Contact w/ School district
- Council/HSD Retreat
- Develop strategic Plan
 - Timeline
 - Performance measures

Burien City Council
Retreat Notes
Revised January 28, 2012

Liquor & B & O taxes

- Understand what the change in law means for city- will know w/in 2-3 months
- B&O- will the state take it over or will city take it in-house

Next Steps

- What is being done at State level?
- Bring it in-house
 - Cost?
 - Control
- Repeal RCW that prohibits Local B & O

Storm Water and TIP

- Long term planning for street repair- multi-decade plan not addressed in workplan
- Statewide funding not adequate to fund state initiatives, so cities will need to address this

Next Steps

- Seek Fed/State demonstration grants for Miller Creek
- Look for effective model ordinances
- Surface water rate increase
- Council agreement/conversation
- Education/outreach for LID (ESC)
- TIP management plan

Wellness Cluster

- Questions re: it's effectively working, some successes
- Unclear buy-in or lack thereof
- No clear steps for moving it forward- formalizing it
 - Clear ID membership
 - Clear structure
 - Clear leadership
- Shift leadership to community-based stakeholders; there are resources available
- Pursue capacity building funding to move this group forward (Liz Heath)

Next Steps

- Formalize structure and approach: Membership, structure and leadership
 - If not, sunset it
- Shift leadership to stakeholders
- Liz Heath/Capacity building



Burien

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www.burienwa.gov

MEMORANDUM

TO: Honorable Mayor and Members of the City Council
FROM: Mike Martin, City Manager
DATE: July 16, 2012
SUBJECT: City Manager's Report

I. INTERNAL CITY INFORMATION

A. New SeaTac and Burien Outdoor Concert Series

The cities are working together this summer to co-sponsor a concert series to be held at North SeaTac Park. Concerts will be on Wednesday nights from 6:30-8 p.m. beginning July 18. The PaRCS Department offered a new concert-in-the-park series in North Burien last year but sought a better location. North SeaTac Park is located across the street from Boulevard Park and is a convenient location for our residents who live in that area. The series will complement the long-running Lake Burien Park concerts which are held on Thursday nights, also from 6:30-8:00 p.m.

B. Increased Usage of Athletic Fields by Youth Lacrosse Teams

While the community's youth sports organizations have reduced their scheduled events on the city's athletic fields over the last few years, the Highline Titans Lacrosse program has continued to grow. Due to the rental slot vacancies from the traditional baseball and soccer youth groups, PaRCS staff have been able to accommodate many of the Titan's requests. The program began with a boys' high school team and has since expanded to include girls' elementary and middle school teams. This new usage has helped make up for some of the reduced field rental revenue.

C. Complete Calendar for Annexation Informational Forums

On July 12, staff held the second City-sponsored annexation informational forum at Dubsea Coffee, 9910 8th Ave SW, at 6 p.m. The City will also have a booth on July 21 at the Jubilee Days Street Fair in the White Center Business District. Staff will be there from 10 a.m. – 8 p.m. to answer questions and pass out informational brochures including copies in Spanish, Vietnamese, Cambodian and Somali.

The rest of the forums are scheduled as follows:

August 23: White Center Food Bank, 10829 8th Ave SW, 6 p.m.

September 13: Beverly Park Elementary School, cafeteria, 1201 S. 104th Street, 6 p.m.

October 18: Cascade Middle School, cafeteria, 11212 10th Ave SW, 6 p.m.

Visit the Burien Annexation website at www.burienwa.gov/annexation for up-to-date information. The public is encouraged to email annexation@burienwa.gov or call (206) 436-5555 with questions and/or comments.

D. Annexation Web Map a Hit

Data shows that 370 visitors have utilized the City of Burien Geographic Information System (GIS) Annexation Web Map that became available at burienwa.gov in early May. This web map allows users to enter their address and zip code to determine if they live in the Proposed Burien Annexation Area. To view or use this web map, visit <http://gis.burienwa.gov/annexation/>.

E. Burien District Court Filings

The City of Burien saw a 22% decrease in Burien District Court total filings from 2010 to 2011. This decrease was mainly due to a reduction in red light camera and parking filings. Other decreases occurred in Traffic Infractions, Non-Traffic Infractions, and Criminal Non-Traffic. Increases occurred in Criminal Traffic, DUIs, and Domestic Violence cases. These are all misdemeanor cases. Here is a summary of the Burien District Court case filings for the last few years:

Year	Traffic Infractions	Non-Traffic Infractions	DUI	Criminal Traffic	Criminal Non-Traffic	Domestic Violence	Parking	Subtotal	Red Light Cameras	Total
2011	1,137	8	78	323	349	300	914	3,109	2,345	5,454
2010	1,169	36	57	282	363	186	1,205	3,298	3,702	7,000
2009	532	22	40	194	310	126	1,096	2,320	3,402	5,722
2008	663	11	52	248	322	153	1,090	2,539	-	2,539
2007	1,172	17	52	392	354	203	695	2,885	-	2,885

Common case filings are listed below:

- **Traffic Infractions** include speeding, seat belt violations, and invalid insurance.
- **Non-Traffic Infractions** include noise violations, fireworks, and littering.
- **DUI** is Driving Under the Influence of alcohol or drugs.
- **Criminal Traffic** includes Driving While License Suspended (DWLS), reckless driving, and vehicular assault.
- **Criminal Non-Traffic** includes theft, disorderly conduct, and public nuisance.
- **Domestic Violence (DV)** includes DV assault, and protection order violations.
- **Parking** includes parking tickets.
- **Red Light Cameras** are the photo enforcement violations at the three red light camera intersections.

F. City Hires New Code Specialist

Julie Brown began working as a Code Specialist in the Community Development Department on June 25th. Prior to joining our staff, Julie worked 13 years for Stevens County (about 70 miles north of Spokane) - first as a Permit Technician, and most recently as a Plans Examiner II. She is a Certified Building Plans Examiner and Residential Building Inspector. Julie's new job replaces one of our Permit Technician positions. Her training will allow us to offer our customers a higher level of technical assistance at the permit center as well as relieve our inspectors of simple plan reviews, allowing more time for inspections.

II. COUNCIL UPDATES/REPORTS

A. King County Sheriff's Office Strategic Business Plan

The Strategic Business Plan for 2012-2016 has been received from the King County Sheriff's Office, and is on file in the office of the City Manager for anyone who wishes to review it.

B. Council-Manager to Mayor-Council Plan of Government Process

Pursuant to the request of Councilmembers at the July 2 City Council meeting, the following is a summary of the statutory method for changing from the council-manager to the mayor-council plan of government:

- 1) **Initiation Process.** Changing from the council-manager plan of government to the mayor-council plan may be initiated in one of two ways: by resolution for election or by petition for election. The resolution for election process is begun by the passage of a resolution by the city council, proposing abandonment of the council-manager plan of government and adoption of the mayor-council plan. The petition for election method is begun by submitting the same proposals in petition form. The petitions must be signed by registered voters in number equal to not less than ten percent of the votes cast at the last general municipal election. [See RCW 35A.06.040].
- 2) **Election Required for Reorganization.** Once a petition for reorganization has been determined to be sufficient, or a resolution proposing government plan abandonment and reorganization has been approved, the city council must provide for an election on the issue of reorganization. The election on the reorganization issue may be held at the next general election in accordance with RCW 29A.04.330 or at a special election held prior to the general election pursuant to the resolution of the council. [See RCW 35A.06.050.] The ballot title and the statement of the proposition are to be prepared by the city attorney. [See RCW 35A.29.120.]
- 3) **Effective Date of Reorganization.** If a majority of the voters approve the reorganization, the city's reorganization to the mayor-council plan will become effective upon the election, qualification, and assumption of office of the mayor. [See RCW 35A.06.060.]

C. Proclamation for Parks & Recreation Month (Page 227)

On July 2, Mayor Bennett issued a Mayoral Proclamation marking the occasion of National Parks and Recreation Month for the month of July (attached). The Burien Parks, Recreation & Cultural Services (PaRCS) Department has several activities and special programs planned during the month, including concerts in the parks, and a special overnight Family Camp Out at Seahurst Park. This year's theme for National Park & Recreation Month is "Get Wild".

D. Annexation Expenses Follow-up

At the July 2 City Council meeting, Councilmember Jack Block, Jr. requested a detailed list of expenses related to the North Highline Potential Annexation Area. The City has incurred \$1,591.60 in expenses to date that are specific to this potential annexation. These expenses include:

\$175.00 for a booth at the White Center Jubilee Days Festival
\$765.00 to design an annexation brochure
\$60.70 for cookies at the 3.14 Bakery Annexation Informational Forum
\$590.90 for translation services

In addition to these direct costs, the City has expended approximately \$7,050 to send the City newsletter to residences in the potential annexation area. The average cost per issue for these additional newsletters is \$2,350 (including printing and postage) and it was distributed in December, March and June.



**PROCLAMATION
OF THE CITY OF BURIEN
Washington**

A PROCLAMATION OF THE CITY COUNCIL OF THE CITY OF BURIEN,
WASHINGTON, PROCLAIMING JULY 2012 AS

BURIEN RECREATION AND PARKS MONTH

WHEREAS, public parks and recreation systems are dedicated to enhancing the quality of life for millions of residents in communities around the world through recreation programming, leisure activities and conservation efforts; and

WHEREAS, parks, recreation activities and leisure experiences provide opportunities for young people to live, grow and develop into contributing members of society; create lifelines and continuous life experiences for older members of the community; generate opportunities for people to come together and experience a sense of community; and pay dividends to communities by attracting business and jobs and increasing housing values; and

WHEREAS, as we observe Recreation and Parks Month, we recognize the vital contributions of employees and volunteers in Burien's parks and recreation facilities and programs. These dedicated supporters keep public parks in Burien clean and safe for visitors, organize youth activities, provide educational programming on health, nutrition, first aid and gardening, advocate for more open space and better trails, and fundraise for local improvements. They ensure that our parks and recreation facilities are safe and accessible places for all citizens to enjoy.

NOW THEREFORE, WITH THE NATIONAL RECREATION AND PARK ASSOCIATION, THE CITY COUNCIL OF THE CITY OF BURIEN, WASHINGTON, DOES HEREBY PROCLAIM THE MONTH OF JULY AS RECREATION AND PARKS MONTH in the City of Burien, and urge all citizens to learn more about how to support the places that bring our community a higher quality of life, safer places to play, and healthy alternatives through recreation programming for everyone and encourage all residents to enjoy Burien's parks community has to offer by taking part in their favorite sports, visiting the outdoors, spending time with family and friends, or just relaxing.

Dated this 2nd day of July, 2012.

Mayor Brian Bennett
Councilmember Jack Block, Jr.
Councilmember Lucy Krakowiak
Councilmember Gerald Robison

Deputy Mayor Rose Clark
Councilmember Bob Edgar
Councilmember Joan McGilton

City of Burien

Mayor

