

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Board of Directors

DC Retail Water and Sewer Rates Committee

Tuesday September 24, 2013

9:30am

1. Call to Order Howard Gibbs, (Chairman
2. Update on DCGIS 2005 Flyover Information (Attachment A) April	Bingham
3. Review 2013 Potomac Interceptor Cost of Service Study (Attachment B)	Mark Kim
 4. Retail Rates Committee Workplan FY 2013 Completed Retail Rates Committee Workplan (Attachment C) FY 2014 Proposed Retail Rates Committee Workplan (Attachment D) 	Mark Kim
5. Other Business	Mark Kim
6. Executive Session	

- 7. Agenda for November 26, 2013 Committee Meeting (Attachment E) Howard Gibbs, Chairman
- 8. Adjournment

FOLLOW-UP-ITEMS – DC Retail Water and Sewer Rates Committee Meeting (June 25, 2013)

- 1. Calculate average CAP customer monthly bill using higher Ccf per month vs. average residential monthly usage of 6.69 Ccf. (**Mr. Roth**) Status: November 2013
- 2. How does DC Water inform the senior population about our customer affordability programs.(**Ms. Richardson**) Status: November 2013



Attachment A

Clean Rivers Impervious Surface Area Charge Process to Update Non-Residential Planimetric Information

Presentation to:

DC Retail Water and Sewer Rates Committee

September 24, 2013



Background

Daily Clean Rivers IAC Maintenance Process

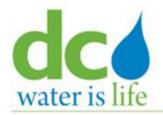
Discussion



Background



- The initial database was created from planimetric data originally created by District of Columbia Geographic Information System (DCGIS) in 1999 and updated in 2005. It was subsequently updated in 2008 and 2010.
- DCGIS is planning a new flyover in late October/early November 2013 with the planimetric data and orthoimagery being available in the Spring of 2014.
- DC Water is planning to begin updating the entire database in the fall of 2014.
- DC Water included \$800k in the proposed FY 2015 capital budget.



Daily Clean Rivers IAC Maintenance Process

DAILY CLEAN RIVERS IAC MAINTENANCE PROCESS

- Typically updates are triggered by new premises being made active by a move in and a meter set but also from customer calls or simple visual inspection of changes in ownership information or orthoimagery.
- All available sources of impervious surface areas are used: orthoimagery, most recent planimetric data and even site plans.

2005 CONDITIONS AND Water is life IMPERVIOUS AREA ASSIGNED IN 2009



Initial database 2005



Assigned Impervious Area in 2009

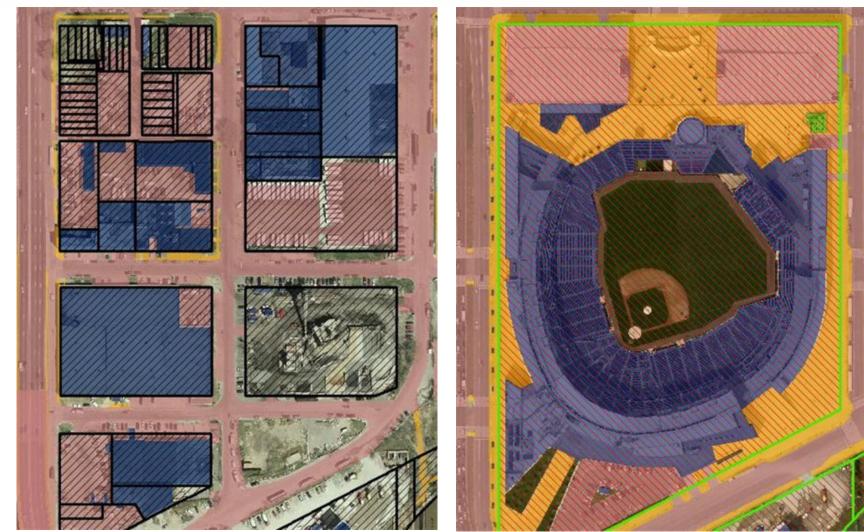






Updated Imagery and combined lot

BEFORE CLEAN RIVERS IAC UPDATE: 317.9 ERU AFTER CLEAN RIVERS IAC UPDATE: 681.5 ERU



Impervious Area Assigned FY 2009 Before

Impervious Area Assigned FY 2012 After



- Between the 2011 Building data and the 2005 data, 7679 buildings were added or updated and 7215 were deleted. Net result is an increase of 6172 ERUs.
- Other impervious surfaces (parking lots, sidewalks, recreational facilities, stairs) were also updated by DCGIS with a new processing rules to include more features to support the DC Water Clean Rivers IAC process.



CITY CENTER PROJECT (OLD CONVENTION water is life CENTER)



2005 – No Impervious



2013 – Parking Lot, New Buildings





Missing Driveways

Missing Buildings

Using the most recent data available (usually orthoimagery and site plans) including site visits is how we make sure that we assign the Clean Rivers IAC correctly.



Planimetric Data is not the only cause for updates; Property Data also changes quite a bit.



Lots added

Lots subdivided

Lots shifted



Discussion



Attachment B

FY 2013 Potomac Interceptor Customer Rate Update

Presentation to:

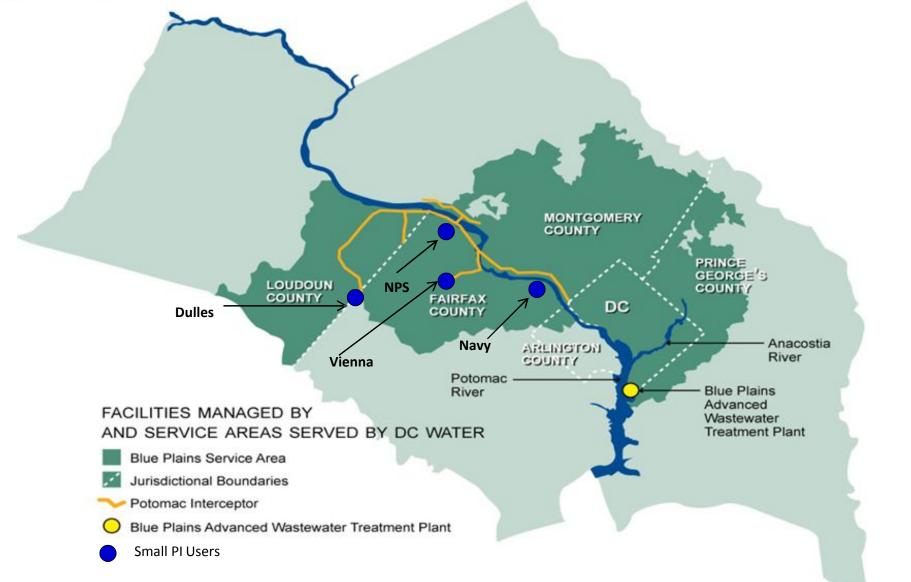
DC Retail Water and Sewer Rates Committee

September 24, 2013



- Potomac Interceptor Update
- Methodology
- Rate Study Results
- Next Steps
- Questions

Water is life LOCATION OF POTOMAC INTERCEPTOR (PI)





- The 86th U.S. Congress authorized the design and construction of the Potomac Interceptor (PI) on June 12, 1960
- DC Water charges the "Small PI Customers" (Dulles, National Park Service (NPS), Navy, Vienna) for wholesale wastewater treatment services pursuant to separate but similar Agreements signed in the 1960s
 - These Small PI Customer Agreements are separate from the IMA agreements and the Loudon County Sanitation Authority Agreement – no duplication of cost recovery
 - Under the Agreement, the Small PI Customers' rates are to be adjusted periodically (three year or greater intervals)
 - Charges are based on a proportionate allocation of <u>capital</u> and <u>operating</u> costs and are to be recovered through a rate per million gallons of wastewater flow
 - Small PI Customers are billed quarterly, based on measured flow

FY 2014 – 2016 COS STUDY water is life OBJECTIVES

- Determine costs of providing services to the PI Customers for FY 2010 – 2013 and true-up balances
- Estimate costs of services and PI Customer flows for FY 2014 through 2016
- Establish a rate for cost recovery for the FY 2014 through 2016 period



Capital costs are allocated based on reserved capacity:

- Original Blue Plains costs
- Debt Service
- New capital cost amortized

Operating and Maintenance costs are allocated based on wastewater flow

Total Capital and Operating and Maintenance costs divided by projected wastewater flow is equal to the rate in dollars per million gallons

Note: See slide 9 for explanation of rate model components

METHODOLOGY – RATE MODEL, water is life MODEL.

- Original Cost of Blue Plains Facilities, recovers a share of the costs incurred in building the Blue Plains plant prior to the connection of the Potomac Interceptor (PI). It captures the cost of "purchasing" a dedicated share of the in-place capacity at Blue Plains at the time the PI was completed. The PI was completed in 1964.
- Debt Service on PI and Project "C" Loans, recovers a share of the debt service associated with loans used to construct the PI and the Project "C" sewer. Debt service responsibility is assigned to each customer according to allocated capacity.
- New Capital Costs Amortized over Thirty Years, recovers a share of the capital costs incurred subsequent to the completion of the PI for expanding or improving Authority facilities that transmit and/or treat wastewater flows from the PI. The amount due from each customer is determined according to capacity allocation and recovered over a thirty-year amortization period.
- Operating and Maintenance Costs, recovers a share of the operating and maintenance costs incurred in transmitting and treating wastewater flows from the PI. Each customer pays a portion of the operating and maintenance costs based on its share of wastewater flow.



	Vienna	Dulles	NPS	Navy
Period	Rate Per MG	Rate Per MG	Rate Per MG	Rate Per MG
FY2011 - FY2013	\$ 3,880	\$ 3,211	\$ 9,375	\$ 3,210
FY2014 - FY2016	\$ 3,729	\$ 2,158	\$ 6,467	\$ 2,880
Rate Diffference	\$ (151)	\$ (1,053)	\$ (2,908)	\$ (330)

EXPLANATION OF SIGNIFICANT water is life RATE CHANGES

Vienna

- Settlement of prior years disputed amounts during FY 2011 FY 2013 period and true-up, created a reduction in rates (though partially offset by the effect of the increase in capital costs)
- This resulted in a slightly lower proposed rate for Vienna for the FY 2014 - FY 2016 period

Dulles

- Actual Flows were higher than projected during FY 2011 FY 2013 period which resulted in the following:
 - Over payments during the period
 - Significant true-up amount
 - Higher flow projections for the FY 2014 FY 2016 period
- The above created a significant rate reduction for the FY 2014 FY 2016 period

EXPLANATION OF SIGNIFICANT water is life RATE CHANGES, CONT.

🗋 NPS

- Current rate includes significant true-up amount to recover prior underpayments. This high true-up amount is not required for the FY 2014 – FY 2016 period
- This created a significant rate reduction for the FY 2014 FY 2016 period

Navy

- Current rate includes true-up amount to recover prior underpayments. This true-up amount is not required for the FY 2014 – FY 2016 period
- A credit true-up is required to reimburse overpayments that occurred during the FY 2011 - FY 2013 period (offset by the effect of the increase in capital costs)
- This resulted in a slightly lower rate for the FY 2014 FY 2016 period



water is life RATE STUDY RESULTS

		V	ienna		
Year	Total Payment Due (\$)*	2010-2013 (True-up)**	Total Amount to be Recovered	Wastewater Flow (MG)	Derived Rate (\$/MG)
Principal /	Amt	\$ 166,366	\$ 166,366		
2014	1,011,946	60,254	1,072,200	301	3,563
2015	1,067,477	60,254	1,127,731	301	3,747
2016	1,106,093	60,254	1,166,347	301	3,876
Total	3,185,516	180,762	3,366,278	903	
Average Rate FY 2014-2016 3,729					

Dulles					
			Total Amount		
	Total Payment	2010-2013	to be	Wastew ater	Derived Rate
Year	Due (\$)*	(True-up)**	Recovered	Flow (MG)	(\$/MG)
Principal A	Amt	\$ (918,307)	\$ (918,307)		
2014	1,036,828	(332,591)	704,237	350	2,011
2015	1,094,175	(332,591)	761,584	350	2,174
2016	1,134,642	(332,591)	802,051	350	2,290
Total	3,265,645	(997,773)	2,267,872	1,050	
		Averag	ge Rate FY 20	14-2016	2,158

Amortized over the 3-year proposed billing period (FY 2014 – FY 2016). Interest rate of 4.27% was taken from Bond **Buyer Index

Note: Figures rounded to the nearest whole number



water is life RATE STUDY RESULTS, CONT.

			I	NPS			
Year	Total Payment Due (\$)*		010-2013 ue-up)**		al Amount to be covered	Wastewater Flow (MG)	Derived Rate (\$/MG)
Principal A	Amt	\$	10,931	\$	10,931		
2014	25,175		3,959		29,134	5	6,395
2015	25,955		3,959		29,914	5	6,566
2016	25,385		3,959		29,344	5	6,441
Total	76,515		11,877		88,392	15	
			Avera	ae Ra	ate FY 20 ⁻	14-2016	6,467
			1	lavy	,		
				Tota	al Amount		
Year	Total Payment Due (\$)*		010-2013 rue-up)**		to be covered	Wastewater Flow (MG)	Derived Rate (\$/MG)
Year Principal /	Due (\$)*				to be		
	Due (\$)*	(Tr	ue-up)**	Re	to be covered		
Principal /	Due (\$)*	(Tr	rue-up)** (14,120)	Re	to be covered (14,120)	Flow (MG)	(\$/MG)
Principal / 2014	Due (\$)* Amt 55,717	(Tr	(14,120) (5,114)	Re	to be covered (14,120) 50,603	Flow (MG) 18	(\$/MG) 2,779
Principal / 2014 2015	Due (\$)* Amt 55,717 58,146	(Tr	(14,120) (5,114) (5,114)	Re	to be covered (14,120) 50,603 53,032	Flow (MG) 18 18	(\$/MG) 2,779 2,912

Amortized over the 3-year proposed billing period (FY 2014 – FY 2016). Interest rate of 4.27% was taken from Bond **Buyer Index

Note: Figures rounded to the nearest whole number



Communicate PI rates based on COS to all jurisdiction

Mail letter and Cost of Service Study

Address Concerns

Attachment C

FY 2013 Completed Committee Workplan				
Objective/Activities/Task	Date of Activity	Completed	Responsible Department	

			,
1. Develop Realistic Retail Rate			
Revenue Projections and Alternative			
Retail Revenue Sources			
a. Propose and establish Retail			Rates and Revenue
Rates in FY 2014 and new			
customer classification			
i. Rate Proposal to Joint	October 2012	2	
Committee		v	
ii. Review rate design options	November 2012	\checkmark	
(customer segmentation)			
iii. Committee recommendation	December 2012	V	
iv. Board approval	January 2013	N	
v. Publish DCMR	March 2013	1	
vi. Public Outreach	March/April 2013	N	
vii. Public Hearing	May 2013	N	
viii. Committee recommendation	June 2013	N	
on FY 2014 rates		N	
b. Review draft Developer Fees	November 2012	2	Rates and Revenue
c. Final FY 2012 Cost of Service	November 2012		Rates and Revenue
Study		v	
d. Potomac Interceptor Cost of	September 2013	al	Rates and Revenue
Service		v	
e. Soldiers Home Negotiations	Monthly	V	General Counsel
-		, v	

2 DC Weter Affordebility			
2. DC Water Affordability			
a. Revisit CAP program and possible modifications (Expansion and or methodology)			Rates and Revenue
i. Committee review of CAP program with FY 2014 Budget Submission	December 2012	\checkmark	Customer Service
ii. Explore CAP water conservation options	Scheduled for November 2013	N	Rates and Revenue
b. Implement LID Incentive Program for customers who utilize Best Management Practice in conjunction with DDOE i. Legal evaluation of the DDOE			
proposed program; and ii. Evaluate alternatives for the	December 2012	\checkmark	
Clean Rivers IAC discounts iii. Prepare revenue impact	February/March 2013	\checkmark	
analysis	February/March 2013	\checkmark	

FY 2013 Completed Committee Workplan				
Objective/Activities/Task	Date of Activity	Completed	Responsible Department	

2. DC Water Affordability			
iv. Committee review on CRIAC Incentive Program with FY 2014 Budget Submission	December 2012	\checkmark	Rates and Revenue
 v. Committee Recommendation vi. Board Approval vii. Publish DC Register viii. Public Outreach ix. Public Hearing x. Committee recommendation on FY 2014 CRIAC Discount Program 	March 2013 April 2013 April 2013 April 2013 May 2013 June 2013	オオオオオ	
c. 2015 Cost of Service Study i. Implement Customer Segmentation water volumetric rates by customer class with differentiation based on	To be incorporated in the FY 2015 Cost of Service Study		Rates and Revenue
peaking characteristics ii. Implement Re-Development Impact Fee iii. High Strength Rate Alternatives			Rates and Revenue Rates and Revenue
<u> </u>			

3. Develop Alternative Revenue Sources and Achieve Realistic Revenue Projections (DC Water Strategic Plan Framework)		
 a. Identify and evaluate potential revenue generating initiatives annually 	To be incorporated within Strategic Planning Initiatives	Rates and Revenue

4. Provide an example of the updating required and quality controls available to reconcile non-residential data found in the DCGIS 2005 flyover information and a more recent update to the flyover data. This example should be provided at a future Retail Rates Committee meeting		V	Customer Service
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5. Review of the Potomac Interceptor	June 2013	 General Counsel
contracts to see if there are opportunities to modify contracts to be similar to the IMA contracts		

Attachment D

FY 2014 Proposed Committee Workplan			
Objective/Activities/Task	Date of Activity	Completed	Responsible Department

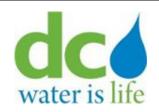
1. Develop Realistic Retail Rate Revenue Projections and Alternative		
Retail Revenue Sourcesa.Propose and establish Retail Rates in FY 2015i. Budget and Rate Proposal Briefing following Board meetingii. Committee recommendation 	November 7 th , 2013 November 26 th , 2013 December 2013 January 2014 March/April 2014 May 2014 June 2014 July 2014 August 2014	Rates and Revenue

2. DC Water Affordability		
 a. Revisit CAP program and possible modifications (Expansion and or methodology) i. Explore CAP water conservation options 	November 2013	Rates and Revenue Customer Service

3. 2015 Cost of Service Study		
i. Implement Customer Segmentation water volumetric rates by customer class with differentiation based on peaking characteristics	Summer 2014	Rates and Revenue
ii. Implement Re-Development Impact Fee	Summer 2014	Rates and Revenue
iii. High Strength Rate Alternatives	Summer 2014	Rates and Revenue

FY 2014 Proposed Committee Workplan			
Objective/Activities/Task	Date of Activity	Completed	Responsible Department

4. Delinquent Accounts		
a. Soldiers Home Negotiations	Monthly	General Counsel



Attachment E

D.C. WATER AND SEWER AUTHORITY BOARD OF DIRECTORS RETAIL WATER & SEWER RATES COMMITTEE MEETING

TUESDAY, November 26, 2013; 9:30 a.m. AGENDA

Call	to	Order	

Committee Chairman

Chief Financial Officer

Chief Financial Officer

Chief Financial Officer

Committee Chairman

Monthly Updates

Committee Workplan

Other Business

Agenda for December 20, 2013 Committee Meeting

Adjournment

*Detailed agenda can be found on DC Water's website at www.dcwater.com/about/board_agendas.cfm