

RESOLUTION No. 3 697 7

Implement Rainfall-Derived Infiltration and Inflow Reduction Program pilot projects in southwest Portland to resolve capacity problems in Fanno Creek and Burlingame sewer basins and to comply with Oregon Department of Environmental Mutual Agreement and Order (Resolution)

WHEREAS, the separated sanitary system in southwest Portland was designed and built only to accommodate flows from sanitary sewage,

WHEREAS, the Bureau of Environmental Services (BES) performed extensive hydraulic monitoring, modeling, and analysis of the sewer collection system in southwest Portland and found that groundwater and stormwater is entering the sanitary sewer system,

WHEREAS, this problem is known as rainfall-derived inflow and infiltration (RDII), where infiltration is the seepage of groundwater into pipes or manholes and inflow is the water which enters the sanitary sewer system through direct connections such as foundation drains and roof drains,

WHEREAS, RDII is causing local capacity problems in the Fanno Creek and Burlingame sewer basins in southwest Portland, including sanitary sewer overflows, increased wet weather flows to the Fanno Basin Pump Station, and increased treatment costs,

WHEREAS, BES has entered into a Mutual Agreement and Order with the Oregon Department of Environmental Quality to reduce RDII and eliminate sanitary sewer overflows in the Burlingame sewer basin,

WHEREAS, BES currently has an agreement with Clean Water Services to reduce RDII in the Fanno Basin to reduce treatment needs and overflows,

WHEREAS, BES is committed to resolving RDII resulting from public sewer pipes and manholes through investigation and repair activities currently scheduled and budgeted in the Capital Improvement Program,

WHEREAS, BES research efforts and implementation by other jurisdictions across the country have shown that RDII cannot be reduced sufficiently to reduce sewage overflows and preserve system capacity without reducing sources of RDII on private property,

WHEREAS, pilot projects that reduce RDII from private property are needed to develop an informed and effective implementation of a broader RDII program,

WHEREAS, the pilot projects will consist of two phases, the first phase including repair or replacement of private sanitary laterals and the second phase redirecting inflow connections where safe and appropriate,

WHEREAS, BES will seek voluntary participation of approximately 360 property owners within three pilot project areas for replacement/rehabilitation of their private laterals in coordination with similar efforts to replace/rehabilitate the public portion of the sewer system,

WHEREAS, BES needs high participation in order to determine the effectiveness of the pilot project and the impact of targeted approaches,

WHEREAS, as pilot projects, the same approaches and protocols may not be used on future RDII Program efforts and projects.

NOW, THEREFORE, BE IT RESOLVED that City Council recognizes the potential negative impacts to health, safety, and watershed health, as well as the detrimental impacts to the sewer collection system from Rainfall-Derived Inflow and Infiltration; and,

BE IT FURTHER RESOLVED that City Council endorses the Bureau of Environmental Services Rainfall Derived Infiltration and Inflow pilot project implementation.

Passed by the Council, NOV 07 2012
Dan Saltzman
Commissioner of Public Affairs

[Scott Gibson]
[October 24, 2012]

LaVonne Griffin-Valade
Auditor of the City of Portland
By



Deputy

Agenda No. **3 697 7**
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Title

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<p>INTRODUCED BY Commissioner/Auditor: Saltzman</p>	<p>CLERK USE: DATE FILED <u>NOV 02 2012</u></p>
<p>COMMISSIONER APPROVAL</p> <p>Mayor—Finance and Administration - Adams</p> <p>Position 1/Utilities - Fritz</p> <p>Position 2/Works - Fish</p> <p>Position 3/Affairs - Saltzman <i>Don Saltzman</i></p> <p>Position 4/Safety - Leonard</p>	<p>LaVonne Griffin-Valade Auditor of the City of Portland</p> <p>By: <u><i>[Signature]</i></u> Deputy</p>
<p>BUREAU APPROVAL</p> <p>Bureau: BES Bureau Head: Dean Marriott</p>	<p>ACTION TAKEN:</p>
<p>Prepared by: Scott Gibson Date Prepared: Oct 22, 2012</p>	
<p>Financial Impact & Public Involvement Statement</p> <p>Completed <input checked="" type="checkbox"/> Amends Budget <input type="checkbox"/></p>	
<p>Portland Policy Document If "Yes" requires City Policy paragraph stated in document. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p>Council Meeting Date November 7, 2012</p>	
<p>City Attorney Approval</p>	

AGENDA
<p>TIME CERTAIN <input type="checkbox"/></p> <p>Start time: _____</p> <p>Total amount of time needed: _____ (for presentation, testimony and discussion)</p>
<p>CONSENT <input type="checkbox"/></p>
<p>REGULAR <input checked="" type="checkbox"/></p> <p>Total amount of time needed: _____ (for presentation, testimony and discussion)</p>

FOUR-FIFTHS AGENDA	COMMISSIONERS VOTED AS FOLLOWS:		
		YEAS	NAYS
1. Fritz	1. Fritz	✓	
2. Fish	2. Fish	✓	
3. Saltzman	3. Saltzman	✓	
4. Leonard	4. Leonard	✓	
Adams	Adams	✓	