

ORDINANCE No. 187022

Amend contract with HDR Engineering, Inc. for final design and construction support services for the Columbia Boulevard Wastewater Treatment Plant Biogas Utilization Project No. E10033 for \$995,410 (Ordinance; amend Contract No. 30003218)

The City of Portland ordains:

Section 1. The Council finds:

1. The Bureau of Environmental Services (BES) owns and operates the Columbia Boulevard Wastewater Treatment Plant (CBWTP), which treats an average of 28 billion gallons annually of wastewater in accordance with State of Oregon Department of Environmental Quality (DEQ) issued National Pollutant Discharge Elimination System NPDES permit requirements.
2. Currently, the CBWTP produces approximately 550 million cubic feet annually of digester gas, or biogas, from its anaerobic digestion processes. Approximately 20% of the biogas is used onsite for digester and building heating boilers, 20% is sold to a nearby industrial user, and 40% is used for the cogeneration process (power generation and heat recovery). The remaining 20% is flared through a waste gas burner onsite.
3. During the predesign phase, a number of alternatives were evaluated for the most beneficial use of the remaining 20% of the biogas that is currently being flared, including expanding the co-generation capacity, treating biogas for nearby industry sales, developing a process for drying biosolids onsite to reduce the costs of hauling biosolids, and treating biogas for renewable vehicle fuel.
4. The recommended alternative, treating and utilizing biogas for vehicle fuel, is the most beneficial for the biogas economically.
5. The vehicle fuel alternative will displace use of diesel fuel and its emissions, which contribute to greenhouse gases (GHGs); and significantly reduce the emission of criteria air contaminants (CACs), such as nitrogen oxide, sulfur oxide and particulate matter, which contribute to breathing and respiratory illnesses.
6. The vehicle fuel alternative also has the most opportunities for financial incentives to help reduce the project capital costs.
7. In 2013, HDR Engineering, Inc. was retained, through a selection process, to provide predesign engineering services to identify and assess alternatives for reuse of the biogas, and to recommend an alternative for reuse. Ordinance No. 185872 authorized HDR to proceed with the predesign phase, in the amount of \$298,600, and asked that BES report back to the City Council on the findings and recommendations at the conclusion of the predesign phase. The predesign phase is complete and an alternative, to reuse biogas for vehicle fuel, is the recommended alternative.
8. This council item is to obtain the City Council approval to authorize a contract amendment for HDR Engineering, Inc. to proceed with design and construction services for a gas processing and storage system and a vehicle fueling station.

9. The estimated cost for contract amendment is \$995,410. The level of confidence rating for this project estimate is moderate. The percentage of M/W/ESB participation is 18.2% of the revised contract amount. Funds are available in the Sanitary and Stormwater Fund, FY 14-15 Budget, Bureau of Environmental Services, WBS E10033.

NOW, THEREFORE, the Council directs:

- a. The Commissioner in Charge is authorized to execute the contract amendment with HDR Engineering, Inc. for the purpose described in Section 1, in the amount of \$995,410.
- b. The Mayor and Auditor are hereby authorized to draw and deliver warrants chargeable to the Sewer System Operating Fund Budget when demand is presented and approved by the proper authority.

Passed by the Council,
Commissioner Nick Fish

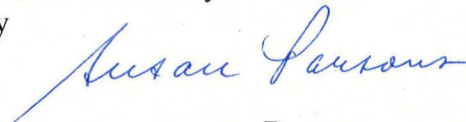
FEB 18 2015

Scott T. Gibson
January 16, 2015

E10033 - ord

Mary Hull Caballero
Auditor of the City of Portland

By



Deputy

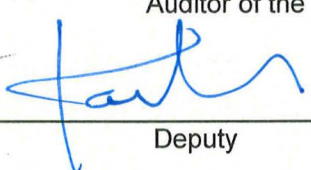

J140

- 103 192 -
Agenda No.
ORDINANCE NO. 187022

contract

Title

Authorize ~~contract amendment~~ with HDR Engineering, Inc. for final design and construction support services for the Columbia Boulevard Wastewater Treatment Plant (CBWTP) Biogas Utilization, Project No. E10033 for \$995,410, (Ordinance); amend Contract No. 30003218)

<p>INTRODUCED BY Commissioner/Auditor: Fish</p>	<p>CLERK USE: DATE FILED <u>FEB 06 2015</u></p>
<p>COMMISSIONER APPROVAL</p> <p>Mayor—Finance and Administration - Hales</p> <p>Position 1/Utilities - Fritz</p> <p>Position 2/Works - Fish</p> <p>Position 3/Affairs - Saltzman</p> <p>Position 4/Safety - Novick</p>	<p style="text-align: center;">Mary Hull Caballero Auditor of the City of Portland</p> <p>By:  Deputy</p>
<p>BUREAU APPROVAL</p> <p>Bureau: Environmental Services Bureau Head: Jim Hagerman (interim)</p> <p>Prepared by: Scott T. Gibson Date Prepared: January 16, 2015</p> <p>Financial Impact & Public Involvement Statement 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>ACTION TAKEN:</p> <p style="font-size: 1.2em;">FEB 11 2015 PASSED TO SECOND READING FEB 18 2015 9:30 A.M.</p>
<p>City Auditor Office Approval:</p> <p>City Attorney Approval: </p>	
<p>Council Meeting Date February 11, 2015</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: 20 minutes (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. Novick	4. Novick	✓	
Hales	Hales	✓	