



**PUBLIC WORKS DEPARTMENT  
MEMORANDUM #2011 – 11**

**DATE:** March 10, 2011  
**TO:** Honorable Mayor Joyce Downing and City Council Members  
**FROM:** William A. Simmons, City Manager   
David H. Willett, Director of Public Works   
**SUBJECT:** CR – 30, 2011 Wastewater Treatment Plant – Biosolids Removal, Hauling, and Disposal

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**BACKGROUND**

In accordance with the City's Wastewater Treatment Plant (WWTP) discharge permit, issued by the Colorado Department of Public Health and Environment (CDPHE), the City is prohibited from permanently storing bio-solids on-site. As part of the normal operations of the WWTP, approximately 600 tons of bio-solids are produced annually which accumulate in the lagoon system. Biological activity breaks down the organic matter resulting in a nutrient rich material suitable for beneficial uses such as fertilizer and soil conditioner. The bio-solids are dredged from the lagoons for commercial use by state regulated contractors. A portion of the bio-solids that are removed from the WWTP lagoons are applied to the agricultural area located at the WWTP. The biosolids contractor managed all aspects of growing the crops.

In November 2010, the City solicited bids for the removal of the bio-solids. Two contractors responded to the City's request and Liquid Waste Management (LWM) was determined to be the lowest qualified bidder based on price and amount (tonnage) of biosolids to be removed, and past service history. The Agreement required both on-site application in association with the agricultural activities, and off-site hauling and disposal. The agreement included a one year fixed price contract with an option extension for each of the next two years. The annual price increase for the successive years would be equal to the Denver-Boulder Consumer Price Index. Attached to this memorandum is the formal bid summary.

The following activities were accomplished during calendar 2010:

- 1240 dry tons of biosolids were removed from Lagoon Cell 3 West –
  - 479 tons applied to contractor sites
  - 761 tons applied to City-owned property located adjacent to the WWTP
- Wheat grown on the City-owned property was harvested (65 acres, City share of revenue \$1,920)
- Corn grown on the City-owned property was harvested (95 acres, City share of revenue \$15,525)

The City realized a cost savings of approximately \$80,000 on its 2010 bio-solids removal contract by applying the bio-solids to our agricultural property (state permitted) as opposed to hauling it off site.

**BUDGET/TIME IMPLICATIONS**

The Water/Wastewater Fund, Operations Division has budgeted \$245,000 for 2011 under Property Services.

**RECOMMENDATION**

Attached to this memorandum is a Resolution that, if approved, would authorize the Mayor to execute the Agreement between the City of Northglenn and Liquid Waste Management, Inc. to provide biosolids removal, hauling, and disposal services for an amount not to exceed **\$245,000**. Staff recommends approval of this Resolution.

**STAFF REFERENCE**

David H. Willett, P.E., Director of Public Works

[dwillett@northglenn.org](mailto:dwillett@northglenn.org) or 303.450.8783

<b>2011 Estimated Cost Using 2010 Actual Biosolids Removal</b>						
<b>Parker AG</b>			<b>Liquid Waste Management</b>			
<b>Offsite Biosolids Application</b>						
<b>Dry Tons Removed 2010</b>	<b>2011 Bid Proposal Rate Per Dry Ton</b>	<b>Total Disposal Cost</b>	<b>Dry Tons Removed 2010</b>	<b>2011 Bid Proposal Rate Per Dry Ton</b>	<b>Total Disposal Cost</b>	
200	\$550.00	\$110,000	200	\$280.00	\$56,000	
200	\$287.12	\$57,424	200	\$270.00	\$54,000	
79	\$215.18	\$16,999	79	\$270.00	\$21,330	
0	\$197.05	\$0	0	\$272.00	\$0	
479		\$184,423	479		\$131,330	
<b>Onsite Biosolids Application At The Wastewater Treatment Facility</b>						
200	\$175.69	\$35,138	200	\$148.00	\$29,600	
200	\$111.87	\$22,374	200	\$148.00	\$29,600	
200	\$99.11	\$19,822	200	\$148.00	\$29,600	
161	\$95.92	\$15,443	161	\$140.00	\$22,540	
761		\$92,777	761		\$111,340	
<b>Parker AG</b>		<b>Grand Total</b>	<b>Liquid Waste Management</b>			
<b>1240</b>		<b>\$277,200</b>	<b>1240</b>		<b>\$242,670</b>	
<b>Difference:</b>			<b>\$34,530</b>			



**CITY OF NORTHGLENN  
FORMAL BID SUMMARY**

BID NUMBER RFP 2010-40

PAGE 1

BID NAME WWTP Biosolids Removal Service

DEPARTMENT: Waste Water Treatment Plant

	Parmer Ag Services, LLC	Liquid Waste Management, Inc.			
DATE DUE 11/29/2010	BID RECEIVED: DATE: 11/29/2010	BID RECEIVED: DATE: 11/29/10	BID RECEIVED: DATE:	BID RECEIVED: DATE:	BID RECEIVED: DATE:
TIME: 2:00 PM	TIME: 9:24am	TIME: 12:57pm	TIME:	TIME:	TIME:
Part A 0-200 Dry Tons	\$175.69	\$148.00			
Part A 200-400 Dry Tons	\$111.87	\$148.00			
Part A 400-600 Dry Tons	\$99.11	\$148.00			
Part A Greater Than 600 tons	\$95.92	\$140.00			
% of the total sale of the harvested crop to be paid to NG	15%	15%			
Part B 0-200 Dry Tons	\$550.00	\$280.00			
Part B 200-400 Dry Tons	\$287.72	\$270.00			
Part B 400-600 Dry Tons	\$215.18	\$270.00			
Part B Greater Than 600 tons	\$197.05	\$272.00			
Part C 1-10 days	\$2,201.00	\$2,500.00			
Part C 11-20 Days	\$1,721.00	\$2,500.00			
Part C 21-30 Days	\$1,524.00	\$2,500.00			

Walter Kuznetsov  
Buyer

Crystal Messick  
City Clerk Deputy

11/29/10  
Date

SPONSORED BY: MAYOR DOWNING

COUNCILMAN'S RESOLUTION

RESOLUTION NO.

No. CR-30  
Series of 2011

\_\_\_\_\_  
Series of 2011

A RESOLUTION APPROVING AN AGREEMENT BETWEEN LIQUID WASTE MANAGEMENT, INC. AND THE CITY OF NORTHGLENN FOR THE 2011 WASTEWATER TREATMENT FACILITY BIOSOLIDS REMOVAL, HAULING AND DISPOSAL

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NORTHGLENN, COLORADO, THAT:

Section 1. The Agreement between Liquid Waste Management, Inc. and the City of Northglenn, attached hereto, in an amount not to exceed \$245,000.00 to provide Biosolids Removal, Hauling and Disposal services at the Wastewater Treatment Plant during the 2011 calendar year is hereby approved and the Mayor is authorized to execute same on behalf of the City of Northglenn.

DATED at Northglenn, Colorado, this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
JOYCE DOWNING  
Mayor

ATTEST:

\_\_\_\_\_  
JOHANNA SMALL, CMC  
City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
COREY Y. HOFFMANN  
City Attorney

## AGREEMENT

**PROJECT NAME: 2011 WWTF BIOSOLIDS REMOVAL, HAULING AND DISPOSAL**

**PROJECT MANAGER: Bruce J. Joslin**

**THIS AGREEMENT**, made this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, by and between the City of Northglenn, hereinafter called "CITY", and Liquid Waste Management, Inc. hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The CONTRACTOR will commence and complete the project named:

**"2011 WWTF Biosolids Removal, Hauling and Disposal"**

2. The CONTRACTOR will furnish all of the materials, supplies, tools, equipment, labor supervision, and other services necessary for the completion of the PROJECT described herein.

3. The CONTRACTOR will provide performance and payment bonds and a certificate of insurance naming the City as an additional insured for purposes of said project within 10 days after the date of the NOTICE OF AWARD.

4. The CONTRACTOR agrees to perform all of the WORK described in the CONTRACT DOCUMENTS and comply with the terms therein for the sum **NOT TO EXCEED** \$245,000.00, or as shown in the BID schedule. The CONTRACTOR will commence the work within 7 calendar days after the date of NOTICE TO PROCEED. The CONTRACTOR will complete the work by December 31, 2011 unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.

5. The term "CONTRACT DOCUMENTS" means and includes all items as set forth in Section 1.01 of the General Conditions.

6. The CITY will pay to the CONTRACTOR in the manner and at such times as set forth in the General Conditions such amounts as required by the CONTRACT DOCUMENTS.

7. This AGREEMENT shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in TWO copies, each of which shall be deemed an original on the date first above written.

**CITY:**

City of Northglenn  
By \_\_\_\_\_  
Name Joyce Downing Date \_\_\_\_\_  
Title Mayor

**ATTEST:**

\_\_\_\_\_  
Name Johanna Small, CMC Date \_\_\_\_\_  
Title City Clerk

(SEAL)

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Corey Y. Hoffmann, City Attorney Date \_\_\_\_\_

(SEAL)

**ATTEST:**

Cynthia Gleim  
March 1, 2011 Date \_\_\_\_\_  
Name (Please Print or Type)  
Title Cynthia Gleim, Office Manager

**CONTRACTOR:** Liquid Waste Management, Inc.

By Jay Holmes  
Name Jay Holmes Date 3-1-11  
(Please Type or Print)

Title President  
Address P.O. Box 888  
Longmont, CO 80502

Bruce J. Joslin  
Print Name of City's Project Manager