



Division of Public Works .
1000 South Houser St.
Muscatine, IA 52761

Recycling Center and Transfer Station

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MEMORANDUM

To: Mayor and City Council Members

Recycling Center
Transfer Station
Landfill Operations
Refuse Collection

Cc: Gregg Mandsager, City Administrator

From: Laura Liegois, Solid Waste Manager

Date: July 14, 2011

Re: Request for A Purchase Order for Monitoring Wells at the Muscatine County Landfill

Introduction:

The Muscatine County Landfill has numerous monitoring wells to meet the groundwater quality regulations from the Iowa Department of Natural Resources (IDNR) for solid waste landfills. Currently, three monitoring wells on site have exceeded the limit of Volatile Organic Compounds or VOC's by the Iowa standard for drinking water. All wells are located in the older sections of the landfill facility.

Background:

In the summer of 2010, Muscatine County Landfill was notified that three wells have exceeded the limit for the VOC's that are reported during the well testing. The IDNR in the changes with the Iowa Code Chapter 113, changed the limits of VOC's in 2007. This rule change has made it challenging for the majority of landfills in the state of Iowa to reach compliance.

Muscatine County Landfill has three monitoring wells that need to have additional wells placed near them to detect if there are any plumes of the VOC's outside of the original wells. Testing of the wells will be done on a semiannual basis to detect if any further action is needed. This is the first step in the remediation process.

Through HLW Engineering, pricing was received for the placement of the three wells in the Fall of 2010. Due to numerous discussions on well placements with Iowa DNR, staff has delayed installation until an agreement on placement was determined.

HLW received the following quotes for drilling of the monitoring wells:

Cahoy Well and Pump Service, Fredericksburg, Iowa - \$5,795.00
Team Services, Des Moines, Iowa - \$5,895.00
Klinger Associates, Burlington, Iowa – Declined to Bid
Aquadrill, Inc., Cedar Rapids, Iowa – No Response
Allender- Butzke, Urbandale, Iowa – No Response
Rewerts Well, Nevada, Iowa – No Response

Recommendation:

It is staff's recommendation that the City of Muscatine issue a purchase order to Cahoy Well and Pump Services for \$5,795.00 for monitoring well installation at the Muscatine County Landfill. The installation of the monitoring wells will be used from the improvement repair line item of the Landfill budget. There is currently \$25,000.00 budgeted for the fiscal year 2011-2012.

If you have any further questions in regards to the regulations for landfill water quality or the well installation, please let me know.