

## Department of Public Works – Engineering Division

### MEMO

**TO:** Municipal Services Committee

**FROM:** Paula Vandehey, Director of Public Works  
Sue Olson, Staff Engineer

**DATE:** October 16, 2013

**RE:** Amend contract with SCS Engineers for Operation, Maintenance and Monitoring at the Mackville Landfill for replacement of the methane sensor by an amount not to exceed \$6,500.

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The Department of Public Works requests approval of a contract amendment for SCS Engineers for Operation, Maintenance and Monitoring at the Mackville Landfill for replacement of the methane sensor by an amount not to exceed \$6,500, for a new contract amount of \$67,010.

The methane sensor at the Mackville Landfill stopped working over the summer, possibly as a result of the power outage associated with the August storms. The sensor that was on site is outdated and no longer available. The newer sensor is more robust and should have a longer life span.

The sensor is approximately \$3300 and installation is expected to cost approximately \$3,200. The installation includes a sub-consultant that specializes in this type of instrumentation and an electrical sub-consultant to perform rewiring needed because the new sensor is made by a different manufacturer.

The consultant anticipates receiving the sensor approximately two weeks after placing the order and that the replacement can be completed by the end of year. Failure to replace the methane sensor would limit the measurement of percent methane to once monthly, when the technician is on-site. The use of the methane sensor with the telemetry system provides continual methane readings that can be checked remotely from any computer. The percent methane trend data provided by the sensor allows our landfill engineering consultant to diagnose problems with the landfill gas collection system and make necessary adjustments to keep gas collection system operating properly.