



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

## **Addendum 2 to Quality Assurance Project Plan**

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### **Edison Large On-Site Sewage System Groundwater Assessment**

April 2016

Publication No. 16-03-108

## Publication Information

### Addendum

This addendum is on the Department of Ecology's website at <https://fortress.wa.gov/ecy/publications/SummaryPages/1603108.html>.

This addendum is an addition to an original Quality Assurance Project Plan. It is not a correction (errata) to the original plan.

Data for this project will be available on Ecology's Environmental Information Management (EIM) website at [www.ecy.wa.gov/eim/index.htm](http://www.ecy.wa.gov/eim/index.htm). Search Study ID bcar006.

### Activity Tracker code

Ecology's Activity Tracker code for this addendum is 13-026.

### Original Publication

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# Addendum to Quality Assurance Project Plan

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## Edison Large On-Site Sewage System Groundwater Assessment

April 2016

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Signatures are not available on the Internet version.

EAP: Environmental Assessment Program

## Summary of changes

This addendum adds one additional sampling event for the study—from 8 to 9 events. One sampling event will occur in April 2016. Results for the 2 main constituents of concern, nitrate and total coliform bacteria, had been consistently low or non-detectable based on 5 sampling events over almost one year (October 2014-June 2015). During the February 2016 sampling event, however, all of the monitoring wells tested positive for total coliform bacteria, with counts ranging from 16 to 840 cfu/100 mL. Two wells also had detectable levels of fecal coliform bacteria. These results were unexpected and, after consultation with the project client, we determined that site conditions require further sampling.

The laboratory budget for this event is \$1,610.

Specific changes to the original QAPP are described below.

### Section 4.6 Tasks required

- Measure water levels and sample monitoring wells for water quality parameters in April 2016.

### Section 5.4 Project schedule

Field work completed: April 2016

Lab analyses completed: June 2016

## Section 5.6. Budget and funding

Lab costs (April 2016)			
Parameter	Cost/sample	No. of samples/event <sup>1</sup>	Total cost
Ammonium-N	\$ 14	14	\$ 196
Nitrite+Nitrate-N	\$ 14	14	\$ 196
Total persulfate N	\$ 18	14	\$ 252
Chloride	\$ 14	14	\$ 196
Fecal coliform	\$ 25	14	\$ 350
Total coliform	\$ 30	14	\$ 420
<sup>1</sup> 11 monitoring wells + 1 Effluent + 1 duplicate +1 blank= 14 samples			\$ 1,610 Total