

Appendix C
Supporting Information for Aquifer Sampling Tubes

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Terms

CY	calendar year
DQO	data quality objective
HSP	hyporheic sampling point
N/A	not applicable
OU	operable unit
SAP	sampling and analysis plan

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C1 Introduction

Sampling points in the aquifer adjacent to the Columbia River on the Hanford Site provide information about water quality near the point of groundwater discharge. These sampling points are known as aquifer sampling tubes or aquifer tubes.

Conventional aquifer tubes are small-diameter, flexible tubes that have a screen on one end. The tubes are installed in the aquifer along the Columbia River shoreline by driving a temporary steel casing into the ground adjacent to the river. The temporary casing is filled with water to keep sediment from coming up into the casing, then the drive tip on the casing end is knocked out, and the screened end of a 0.25 in. diameter flexible tube is inserted into the casing. The steel casing is then pulled out, leaving the tube in place. Water is withdrawn from the tube using a peristaltic pump. The heads of the tubes are on dry ground when the Columbia River is at low to moderate levels. Most of the aquifer tubes become submerged when the river stage is high, although some have been extended so the tubes can be sampled at high river stage.

Over 580 aquifer tubes have been installed along the Hanford Site shoreline. Most aquifer tube sites include two or three separately installed tubes monitoring different depths, most commonly between 2 and 8 m (7 and 26 ft). The tube sites cover the Hanford Site shoreline, from just upstream of 100-BC to downstream at the 300 Area. Sites are more closely spaced along some segments where better spatial resolution of contaminant plumes is needed.

Aquifer tubes of a different design were installed in 100-BC in 2013 and 2014. Known as hyporheic sampling points (HSPs), these differ from the convention aquifer tubes in their depth and construction. The HSPs are shallow (most are 0.5 m [1.6 ft] deep) to monitor the biologically active portion of the hyporheic zone. Most of them are 1.5 in. diameter, stainless-steel tubes that are submerged even at low river stage. The 100-BC chapter of this report (Chapter 2) summarizes the HSP results for 2015.

In 2015, four new aquifer tubes were installed in 100-NR to replace tubes that could no longer be sampled due to breakage or other problems (Table E-2 in Appendix E). They were added to the sampling schedule in 2016.

A subset of aquifer tubes is sampled as specified in the following documents:

- [DOE/RL-2000-59](#), *Sampling and Analysis Plan for Aquifer Sampling Tubes*, as modified by [TPA-CN-327](#), [TPA-CN-353](#), [TPA-CN-556](#), [TPA-CN-612](#), and [TPA-CN-676](#). This plan includes aquifer tubes along the entire Hanford Reach of the Columbia River. As groundwater sampling and analysis plans (SAPs) for River Corridor operable units (OUs) are revised, they will include aquifer tubes if needed to meet data quality objectives (DQOs). Until those revisions are implemented, [DOE/RL-2000-59](#) remains in effect.
- [DOE/RL-2003-49](#), Rev. 2, *100-FR-3 Operable Unit Sampling and Analysis Plan*. Unlike previous versions of this SAP, the September 2014 revision includes aquifer sampling tubes. This supersedes the requirements for 100-F aquifer tubes in [DOE/RL-2000-59](#).
- [DOE/RL-2014-42](#), *300-FF-5 Operable Unit Remedy Implementation Sampling and Analysis Plan*. This SAP presents the plan for 300-FF-5 groundwater monitoring associated with remediation, and it supersedes the requirements of [DOE/RL-2000-59](#). Only one aquifer tube, which is sampled every 5 years, is required to meet groundwater DQOs.
- [DOE/RL-2009-44](#), *Sampling and Analysis Plan for the 100-BC-1, 100-BC-2, and 100-BC-5 Operable Unit Remedial Investigation/Feasibility Study*, as modified by [TPA-CN-559](#), [TPA-CN-593](#), and

[TPA-CN-602](#). These modifications include requirements for installation and monitoring of HSPs, which are not included in [DOE/RL-2000-59](#). It is limited to a 2-year period (fall 2013 through fall 2015).

- [DOE/RL-2001-27](#), Rev. 1, *Remedial Design/Remedial Action Work Plan for the 100-NR-2 Operable Unit*, Appendix A. This document includes the aquifer tubes downgradient of the apatite barrier. The requirements overlap and supplement those of [DOE/RL-2000-59](#).
- [DOE/RL-2003-04](#), Rev. 1, *Sampling and Analysis Plan for the 200-PO-1 Groundwater Operable Unit*. This includes aquifer tubes in the eastern part of 200-PO. The requirements overlap and supplement those of [DOE/RL-2000-59](#).

Figure C-1 illustrates the river stage below Priest Rapids Dam, upstream of the Hanford Site, and the time periods when aquifer tube samples were collected in each area. The comprehensive annual sampling occurred between September and December 2015, when river stage was low. Unlike most years, the highest river stage was observed in February and March 2015 rather than June. The lack of a spring freshet was caused by low snowpack in the Cascade Mountains.

In total, 353 individual aquifer tubes were sampled in 2015. The 100-BC HSPs were sampled monthly until October, many 100-N aquifer tubes are sampled quarterly, and some 100-D aquifer tubes are scheduled semiannually. In addition, approximately 50 aquifer tube sampling trips scheduled for fall 2014 were delayed until January 2015. This resulted in 690 successful aquifer tube sampling trips performed during 2015. Table C-1 summarizes number of sampling trips performed or scheduled in 2015. Table C-2 includes specific sampling dates and depth of the aquifer tubes.

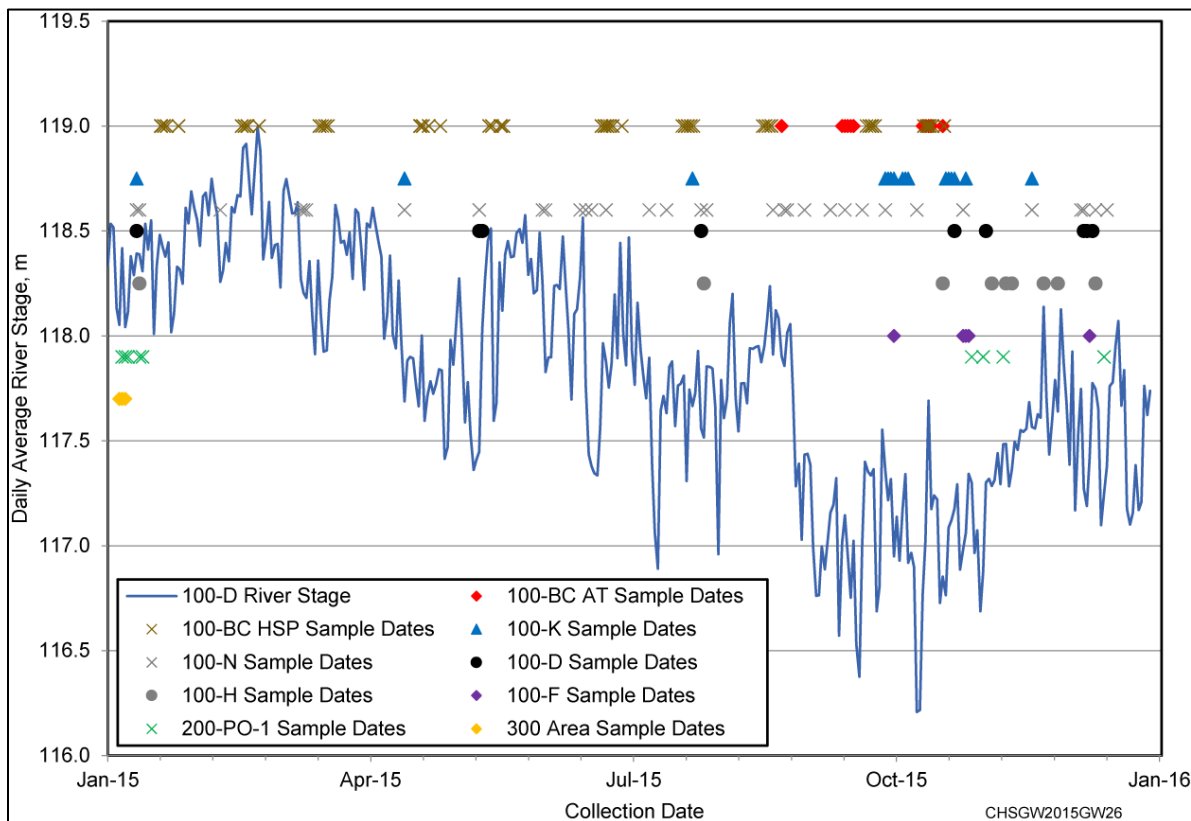


Figure C-1. Aquifer Sampling Tube Dates in Relation to Columbia River Stage Elevation

Table C-1. Summary of Aquifer Tube Sampling Trips Scheduled or Performed in CY 2015

Shoreline Segment	Scheduled in 2014, Sampled in 2015	Scheduled in 2015	Successful in 2015	Scheduled but Unsuccessful in 2015	Total Trips for CY 2015
100-BC	0	35	35	0	35
100-BC HSP	0	228	225	3	225
100-FR	0	14	14	0	14
100-HR-D	2	99	97	2	99
100-HR-H	5	67	62	5	67
100-KR	0	71	70	1	70
100-NR	2	170	167	3	169
200-PO	21	21	15	6	36
300-FF	28	0	N/A	N/A	28
Total	58	705	685	20	743

CY = calendar year

HSP = hyporheic sampling point

N/A = not applicable

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100BC5	01-M	4.9	16.0	A	9/1/2015	8/24/2015	
100BC5	03-D	4.0	13.0	A	9/1/2015	9/17/2015	
100BC5	04-D	7.6	25.0	A	9/1/2015	8/24/2015	
100BC5	05-D	7.8	25.5	A	9/1/2015	8/24/2015	
100BC5	05-M	5.2	17.0	A	9/1/2015	8/24/2015	
100BC5	05-S	2.6	8.5	A	9/1/2015	8/24/2015	
100BC5	06-D	7.0	23.0	A	9/1/2015	9/18/2015	
100BC5	06-M	4.7	15.5	A	9/1/2015	9/18/2015	
100BC5	06-S	2.7	8.8	A	9/1/2015	9/16/2015	
100BC5	12-D	3.0	10.0	A	9/1/2015	8/24/2015	
100BC5	AT-B-1-M	4.0	13.3	A	9/1/2015	9/17/2015	
100BC5	AT-B-2-D	5.8	19.0	A	9/1/2015	9/17/2015	
100BC5	AT-B-3-D	2.5	8.1	A	9/1/2015	9/18/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100BC5	AT-B-3-M	4.3	14.2	A	9/1/2015	9/14/2015	
100BC5	AT-B-3-S	7.1	23.2	A	9/1/2015	9/14/2015	
100BC5	AT-B-5-D	7.3	24.0	A	9/1/2015	9/16/2015	
100BC5	AT-B-7-M	4.1	13.3	A	9/1/2015	9/16/2015	
100BC5	C6227	3.4	11.2	A	9/1/2015	8/24/2015	
100BC5	C6228	5.3	17.5	A	9/1/2015	8/24/2015	
100BC5	C6229	7.1	23.4	A	9/1/2015	8/24/2015	
100BC5	C6230	2.8	9.2	A	9/1/2015	9/18/2015	
100BC5	C6231	4.0	13.0	A	9/1/2015	9/18/2015	
100BC5	C6232	8.1	26.5	A	9/1/2015	9/18/2015	
100BC5	C6233	2.9	9.6	A	9/1/2015	9/16/2015	
100BC5	C6234	4.6	15.3	A	9/1/2015	9/16/2015	
100BC5	C6235	5.8	19.2	A	9/1/2015	9/16/2015	
100BC5	C7718	2.2	7.1	A	9/1/2015	9/15/2015	
100BC5	C7719	3.8	12.5	A	9/1/2015	9/15/2015	
100BC5	C7720	5.6	18.3	A	9/1/2015	9/15/2015	
100BC5	C7724	1.9	6.3	A	9/1/2015	9/14/2015	
100BC5	C7725	3.2	10.6	A	9/1/2015	9/14/2015	
100BC5	C7726	4.7	15.6	A	9/1/2015	9/14/2015	
100BC5	C7780	1.7	5.7	A	9/1/2015	9/16/2015	
100BC5	C7781	2.6	8.5	A	9/1/2015	9/16/2015	
100BC5	C7782	3.4	11.3	A	9/1/2015	9/16/2015	
100FR3	62-M	5.5	18.0	A	10/1/2015	10/26/2015	
100FR3	64-M	5.2	17.0	A	10/1/2015	10/27/2015	
100FR3	67-M	6.1	20.0	A	10/1/2015	10/2/2015	
100FR3	74-D	8.8	29.0	A	10/1/2015	10/28/2015	
100FR3	74-D	8.8	29.0	A	10/1/2015	10/28/2015	
100FR3	75-D	8.2	27.0	A	10/1/2015	12/9/2015	
100FR3	75-D	8.2	27.0	A	10/1/2015	10/2/2015	
100FR3	76-D	7.6	25.0	A	10/1/2015	10/28/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100FR3	77-D	7.5	24.5	A	10/1/2015	10/28/2015	
100FR3	C6302	2.6	8.5	A	10/1/2015	10/26/2015	
100FR3	C6303	4.1	13.3	A	10/1/2015	10/26/2015	
100FR3	C6306	4.4	14.3	A	10/1/2015	10/27/2015	
100FR3	C6309	4.9	16.2	A	10/1/2015	10/27/2015	
100FR3	C6315	5.6	18.4	A	10/1/2015	10/2/2015	
100HR3-D	36-M	4.3	14.0	A	11/1/2014	1/12/2015	Delayed from 2014.
100HR3-D	36-M	4.3	14.0	A	11/1/2015	—	No yield.
100HR3-D	36-S	2.4	8.0	A	11/1/2015	12/8/2015	
100HR3-D	38-D	5.0	16.5	A	11/1/2015	12/10/2015	
100HR3-D	38-M	3.0	10.0	A	11/1/2015	12/10/2015	
100HR3-D	AT-D-1-D	4.1	13.3	A	11/1/2015	12/10/2015	
100HR3-D	AT-D-1-M	3.3	10.8	A	11/1/2015	12/10/2015	
100HR3-D	AT-D-1-S	2.1	7.0	A	11/1/2015	12/10/2015	
100HR3-D	AT-D-2-M	5.0	16.3	A	11/1/2015	12/8/2015	
100HR3-D	AT-D-2-S	4.4	14.3	A	11/1/2015	7/27/2015	
100HR3-D	AT-D-3-D	3.6	11.8	A	11/1/2015	12/8/2015	
100HR3-D	AT-D-3-M	2.7	8.8	A	11/1/2015	12/8/2015	
100HR3-D	AT-D-3-S	2.2	7.3	A	11/1/2015	12/8/2015	
100HR3-D	AT-D-4-D	4.8	15.7	A	11/1/2015	12/8/2015	
100HR3-D	AT-D-4-M	4.2	13.8	A	11/1/2015	12/8/2015	
100HR3-D	AT-D-4-S	3.8	12.4	A	11/1/2015	12/8/2015	
100HR3-D	AT-D-5-D	2.7	8.8	A	11/1/2015	12/8/2015	
100HR3-D	AT-D-5-D	2.7	8.8	A	11/1/2015	12/10/2015	
100HR3-D	AT-D-5-M	2.1	6.8	A	11/1/2015	12/10/2015	
100HR3-D	C6266	2.9	9.6	SA	5/1/2015	5/11/2015	
100HR3-D	C6266	2.9	9.6	SA	11/1/2015	12/7/2015	
100HR3-D	C6267	3.9	12.7	SA	5/1/2015	5/11/2015	
100HR3-D	C6267	3.9	12.7	SA	11/1/2015	12/7/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100HR3-D	C6268	6.6	21.7	SA	5/1/2015	5/11/2015	
100HR3-D	C6268	6.6	21.7	SA	11/1/2015	12/7/2015	
100HR3-D	C6269	2.4	8.0	SA	5/1/2015	5/11/2015	
100HR3-D	C6269	2.4	8.0	SA	11/1/2015	12/7/2015	
100HR3-D	C6270	3.9	12.8	SA	5/1/2015	5/11/2015	
100HR3-D	C6270	3.9	12.8	SA	11/1/2015	12/7/2015	
100HR3-D	C6271	5.6	18.3	SA	5/1/2015	5/12/2015	
100HR3-D	C6271	5.6	18.3	SA	11/1/2015	12/7/2015	
100HR3-D	C6272	2.9	9.7	A	11/1/2015	12/8/2015	
100HR3-D	C6275	3.2	10.4	A	11/1/2015	12/10/2015	
100HR3-D	C6278	3.0	9.7	A	11/1/2015	12/10/2015	
100HR3-D	C6281	2.4	7.9	A	11/1/2015	12/10/2015	
100HR3-D	C6282	4.7	15.6	A	11/1/2015	12/10/2015	
100HR3-D	C7645	2.4	8.0	A	11/1/2015	11/3/2015	
100HR3-D	C7646	3.7	12.3	A	11/1/2015	11/3/2015	
100HR3-D	C7647	5.6	18.5	A	11/1/2015	11/3/2015	
100HR3-D	C7648	6.4	21.1	A	11/1/2015	11/3/2015	
100HR3-D	C7648	6.4	21.1	+	8/1/2015	7/27/2015	Added trip.
100HR3-D	DD-06-2	3.7	12.0	A	11/1/2015	12/10/2015	
100HR3-D	DD-06-3	4.9	16.0	A	11/1/2015	12/10/2015	
100HR3-D	DD-12-2	3.0	10.0	A	11/1/2015	12/10/2015	
100HR3-D	DD-12-4	6.4	21.0	A	11/1/2015	12/10/2015	
100HR3-D	DD-15-2	4.6	15.0	A	11/1/2015	12/10/2015	
100HR3-D	DD-15-3	6.4	21.0	A	8/1/2015	7/27/2015	Added trip.
100HR3-D	DD-15-3	6.4	21.0	A	11/1/2015	12/10/2015	
100HR3-D	DD-15-4	7.8	25.5	A	11/1/2015	12/10/2015	
100HR3-D	DD-16-3	5.3	17.5	A	11/1/2015	12/10/2015	
100HR3-D	DD-16-4	7.8	25.5	A	8/1/2015	7/27/2015	Added trip
100HR3-D	DD-16-4	7.8	25.5	A	11/1/2015	12/10/2015	
100HR3-D	DD-17-2	3.2	10.5	A	11/1/2015	12/10/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100HR3-D	DD-17-3	4.6	15.0	A	11/1/2015	12/10/2015	
100HR3-D	DD-39-1	1.7	5.5	SA	11/1/2014	1/12/2015	Delayed from 2014.
100HR3-D	DD-39-1	1.7	5.5	SA	5/1/2015	—	No yield.
100HR3-D	DD-39-1	1.7	5.5	SA	11/1/2015	12/8/2015	
100HR3-D	DD-41-1	2.5	8.1	SA	5/1/2015	5/12/2015	
100HR3-D	DD-41-1	2.5	8.1	SA	11/1/2015	12/7/2015	
100HR3-D	DD-41-2	4.1	13.6	SA	5/1/2015	5/12/2015	
100HR3-D	DD-41-2	4.1	13.6	SA	11/1/2015	12/7/2015	
100HR3-D	DD-41-3	5.6	18.3	SA	5/1/2015	5/12/2015	
100HR3-D	DD-41-3	5.6	18.3	SA	11/1/2015	12/7/2015	
100HR3-D	DD-42-2	3.2	10.4	SA	5/1/2015	5/12/2015	
100HR3-D	DD-42-2	3.2	10.4	SA	11/1/2015	12/7/2015	
100HR3-D	DD-42-3	4.5	14.9	SA	5/1/2015	5/12/2015	
100HR3-D	DD-42-3	4.5	14.9	SA	11/1/2015	12/7/2015	
100HR3-D	DD-42-4	5.5	18.0	SA	5/1/2015	5/12/2015	
100HR3-D	DD-42-4	5.5	18.0	SA	11/1/2015	12/7/2015	
100HR3-D	DD-43-2	3.0	10.0	SA	5/1/2015	5/12/2015	
100HR3-D	DD-43-2	3.0	10.0	SA	11/1/2015	12/7/2015	
100HR3-D	DD-43-3	3.0	10.0	SA	5/1/2015	5/12/2015	
100HR3-D	DD-43-3	3.0	10.0	SA	11/1/2015	12/7/2015	
100HR3-D	DD-44-3	4.4	14.3	SA	5/1/2015	5/12/2015	
100HR3-D	DD-44-3	4.4	14.3	SA	11/1/2015	12/7/2015	
100HR3-D	DD-44-4	5.3	17.4	SA	5/1/2015	5/11/2015	
100HR3-D	DD-44-4	5.3	17.4	SA	11/1/2015	12/7/2015	
100HR3-D	DD-49-1	3.5	11.5	A	11/1/2015	11/3/2015	
100HR3-D	DD-49-2	4.6	15.2	A	11/1/2015	11/3/2015	
100HR3-D	DD-49-3	3.5	11.5	+	8/1/2015	7/27/2015	Added trip
100HR3-D	DD-49-3	3.5	11.5	A	11/1/2015	11/3/2015	
100HR3-D	DD-49-4	4.6	15.2	A	11/1/2015	11/3/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100HR3-D	DD-50-1	3.9	12.9	A	11/1/2015	11/3/2015	
100HR3-D	DD-50-2	5.9	19.3	A	11/1/2015	11/3/2015	
100HR3-D	DD-50-3	7.4	24.2	A	11/1/2015	11/3/2015	
100HR3-D	DD-50-4	9.1	30.0	+	8/1/2015	7/27/2015	Added trip
100HR3-D	DD-50-4	9.1	30.0	A	11/1/2015	11/3/2015	
100HR3-D	REDOX-1-3.3	1.0	3.3	SA	5/1/2015	5/12/2015	
100HR3-D	REDOX-1-3.3	1.0	3.3	SA	11/1/2015	12/8/2015	
100HR3-D	REDOX-1-6.0	1.8	6.0	SA	5/1/2015	5/12/2015	
100HR3-D	REDOX-1-6.0	1.8	6.0	SA	11/1/2015	12/8/2015	
100HR3-D	REDOX-2-6.0	1.8	6.0	SA	5/1/2015	5/12/2015	
100HR3-D	REDOX-2-6.0	1.8	6.0	SA	11/1/2015	12/8/2015	
100HR3-D	REDOX-3-3.3	1.0	3.3	SA	5/1/2015	5/12/2015	
100HR3-D	REDOX-3-3.3	1.0	3.3	SA	11/1/2015	12/8/2015	
100HR3-D	REDOX-3-4.6	1.4	4.6	SA	5/1/2015	5/12/2015	
100HR3-D	REDOX-3-4.6	1.4	4.6	SA	11/1/2015	12/8/2015	
100HR3-D	REDOX-4-3.0	0.9	3.0	SA	5/1/2015	5/12/2015	
100HR3-D	REDOX-4-3.0	0.9	3.0	SA	11/1/2015	12/8/2015	
100HR3-D	REDOX-4-6.0	1.8	6.0	SA	5/1/2015	5/12/2015	
100HR3-D	REDOX-4-6.0	1.8	6.0	SA	11/1/2015	12/8/2015	
100HR3-H	44-M	2.6	8.5	A	11/1/2015	11/12/2015	
100HR3-H	45-D	7.0	23.0	A	11/1/2015	11/12/2015	
100HR3-H	45-M	4.6	15.0	A	11/1/2015	11/12/2015	
100HR3-H	45-S	2.4	8.0	A	11/1/2015	11/12/2015	
100HR3-H	47-D	2.4	8.0	A	11/1/2015	11/23/2015	
100HR3-H	47-M	2.4	8.0	A	11/1/2015	11/23/2015	
100HR3-H	48-M	5.2	17.0	A	11/1/2015	12/11/2015	
100HR3-H	48-S	2.7	9.0	A	11/1/2015	12/11/2015	
100HR3-H	49-D	7.8	25.5	+	8/1/2015	7/28/2015	Added trip.
100HR3-H	49-D	7.8	25.5	A	11/1/2015	12/11/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100HR3-H	50-M	5.3	17.5	A	11/1/2014	1/13/2015	Delayed from 2014.
100HR3-H	50-M	5.3	17.5	A	11/1/2015	11/5/2015	
100HR3-H	50-S	2.6	8.5	A	11/1/2014	1/13/2015	Delayed from 2014.
100HR3-H	50-S	2.6	8.5	+	8/1/2015	7/28/2015	Added trip.
100HR3-H	50-S	2.6	8.5	A	11/1/2015	—	No yield.
100HR3-H	51-D	7.8	25.5	A	11/1/2015	10/19/2015	
100HR3-H	51-M	5.3	17.5	A	11/1/2015	10/19/2015	
100HR3-H	51-S	2.9	9.5	A	11/1/2015	10/19/2015	
100HR3-H	52-D	7.3	24.0	A	11/1/2015	11/5/2015	
100HR3-H	52-M	4.6	15.0	A	11/1/2015	11/5/2015	
100HR3-H	52-S	2.1	7.0	A	11/1/2015	11/5/2015	
100HR3-H	54-D	7.9	26.0	A	11/1/2015	11/5/2015	
100HR3-H	54-M	5.2	17.0	A	11/1/2015	11/5/2015	
100HR3-H	54-S	2.3	7.5	A	11/1/2015	11/5/2015	
100HR3-H	AT-H-1-D	3.9	12.8	A	11/1/2014	1/13/2015	Delayed from 2014.
100HR3-H	AT-H-1-D	3.9	12.8	A	11/1/2015	12/11/2015	
100HR3-H	AT-H-1-M	3.4	11.0	+	8/1/2015	7/28/2015	Added trip.
100HR3-H	AT-H-1-M	3.4	11.0	A	11/1/2015	12/11/2015	
100HR3-H	AT-H-1-S	1.9	6.2	A	11/1/2015	12/11/2015	
100HR3-H	AT-H-2-D	3.7	12.0	A	11/1/2015	12/11/2015	
100HR3-H	AT-H-2-M	2.8	9.2	A	11/1/2015	12/11/2015	
100HR3-H	AT-H-2-S	1.6	5.3	A	11/1/2015	12/11/2015	
100HR3-H	AT-H-3-D	2.2	7.3	A	11/1/2015	12/11/2015	
100HR3-H	AT-H-3-S	1.6	5.3	A	11/1/2015	12/11/2015	
100HR3-H	C5632	2.2	7.3	A	11/1/2015	11/10/2015	
100HR3-H	C5633	5.3	17.5	A	11/1/2015	11/10/2015	
100HR3-H	C5634	9.4	31.0	A	11/1/2015	11/10/2015	
100HR3-H	C5635	2.1	7.0	A	11/1/2015	11/10/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100HR3-H	C5636	4.7	15.6	A	11/1/2015	11/10/2015	
100HR3-H	C5637	3.8	12.4	A	11/1/2015	11/10/2015	
100HR3-H	C5638	1.7	5.7	A	11/1/2015	11/10/2015	
100HR3-H	C5641	1.4	4.7	+	8/1/2015	7/28/2015	Added trip.
100HR3-H	C5641	1.4	4.7	A	11/1/2015	11/10/2015	
100HR3-H	C5644	2.0	6.4	A	11/1/2015	11/12/2015	
100HR3-H	C5673	1.6	5.2	A	11/1/2015	11/10/2015	
100HR3-H	C5674	2.5	8.1	A	11/1/2015	11/10/2015	
100HR3-H	C5676	1.6	5.4	A	11/1/2015	11/12/2015	
100HR3-H	C5677	2.4	7.9	A	11/1/2015	11/12/2015	
100HR3-H	C5678	2.4	8.0	A	11/1/2015	11/12/2015	
100HR3-H	C5679	1.2	4.0	A	11/1/2015	11/12/2015	
100HR3-H	C5680	3.6	11.9	A	11/1/2015	11/12/2015	
100HR3-H	C5681	4.0	13.2	A	11/1/2015	11/12/2015	
100HR3-H	C5682	2.7	8.9	A	11/1/2015	12/11/2015	
100HR3-H	C6284	3.0	9.7	A	11/1/2015	11/10/2015	
100HR3-H	C6285	4.5	14.6	A	11/1/2015	11/10/2015	
100HR3-H	C6286	10.4	34.0	A	11/1/2015	11/10/2015	
100HR3-H	C6287	2.0	6.5	A	11/1/2015	10/19/2015	
100HR3-H	C6288	2.4	7.8	+	8/1/2015	7/28/2015	Added trip.
100HR3-H	C6288	2.4	7.8	A	11/1/2015	10/19/2015	
100HR3-H	C6290	2.6	8.6	A	11/1/2015	—	Could not locate.
100HR3-H	C6291	4.0	13.0	A	11/1/2015	—	Could not locate.
100HR3-H	C6293	2.4	7.9	A	11/1/2015	—	Broken.
100HR3-H	C6296	2.4	8.0	A	11/1/2015	11/23/2015	
100HR3-H	C6297	4.0	13.1	A	11/1/2015	11/23/2015	
100HR3-H	C6299	2.5	8.1	A	11/1/2015	12/11/2015	
100HR3-H	C6300	3.8	12.6	A	11/1/2015	12/11/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100HR3-H	C6301	5.3	17.3	A	11/1/2015	—	Could not locate.
100HR3-H	C7649	1.7	5.5	A	11/1/2014	1/13/2015	Delayed from 2014.
100HR3-H	C7649	1.7	5.5	A	11/1/2015	12/11/2015	
100HR3-H	C7650	2.4	7.8	A	11/1/2014	1/13/2015	Delayed from 2014.
100HR3-H	C7650	2.4	7.8	+	8/1/2015	7/28/2015	Added trip.
100HR3-H	C7650	2.4	7.8	A	11/1/2015	12/11/2015	
100KR4	14-D	6.6	21.5	A	10/1/2015	10/6/2015	
100KR4	17-D	5.9	19.5	A	10/1/2015	10/6/2015	
100KR4	18-S	2.6	8.5	A	10/1/2015	10/28/2015	
100KR4	19-D	6.7	22.0	A	10/1/2015	10/20/2015	
100KR4	19-M	3.0	10.0	A	10/1/2015	10/21/2015	
100KR4	21-M	4.6	15.0	A	10/1/2015	10/21/2015	
100KR4	21-S	3.4	11.0	A	10/1/2015	11/19/2015	
100KR4	22-D	3.7	12.3	A	10/1/2015	9/30/2015	
100KR4	22-M	2.3	7.5	A	10/1/2015	9/30/2015	
100KR4	23-M	2.1	7.0	A	10/1/2015	10/1/2015	
100KR4	25-D	2.3	7.5	A	10/1/2015	10/23/2015	
100KR4	26-D	7.0	23.0	A	10/1/2015	10/23/2015	
100KR4	26-M	4.3	14.0	A	10/1/2015	10/23/2015	
100KR4	26-S	1.8	6.0	A	10/1/2015	10/23/2015	
100KR4	AT-K-1-D	6.6	21.7	A	10/1/2015	10/5/2015	
100KR4	AT-K-1-M	4.6	15.0	A	10/1/2015	10/5/2015	
100KR4	AT-K-1-S	2.8	9.2	A	10/1/2015	10/5/2015	
100KR4	AT-K-2-D	6.8	22.3	A	10/1/2015	10/20/2015	
100KR4	AT-K-3-D	7.0	23.0	A	10/1/2015	10/21/2015	
100KR4	AT-K-3-M	5.4	17.8	A	10/1/2015	10/21/2015	
100KR4	AT-K-3-S	4.1	13.4	A	10/1/2015	10/21/2015	
100KR4	AT-K-4-M	4.0	13.2	A	10/1/2015	9/30/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100KR4	AT-K-4-S	3.4	11.0	A	10/1/2015	9/30/2015	
100KR4	AT-K-5-D	6.4	21.1	A	10/1/2015	10/1/2015	
100KR4	AT-K-5-M	4.8	15.7	A	10/1/2015	10/1/2015	
100KR4	AT-K-5-S	3.2	10.5	A	10/1/2015	10/1/2015	
100KR4	AT-K-6-D	6.6	21.6	A	10/1/2015	10/23/2015	
100KR4	AT-K-6-M	4.6	15.3	A	10/1/2015	10/23/2015	
100KR4	AT-K-6-S	3.5	11.4	A	10/1/2015	10/23/2015	
100KR4	C6236	3.0	9.7	A	10/1/2015	10/5/2015	
100KR4	C6237	4.6	15.0	A	10/1/2015	10/5/2015	
100KR4	C6238	6.6	21.6	A	10/1/2015	10/5/2015	
100KR4	C6239	3.1	10.2	A	10/1/2015	10/7/2015	
100KR4	C6240	4.5	14.9	A	10/1/2015	10/7/2015	
100KR4	C6241	6.7	21.8	A	10/1/2015	10/7/2015	
100KR4	C6242	3.9	12.7	A	10/1/2015	10/7/2015	
100KR4	C6243	6.3	20.7	A	10/1/2015	10/7/2015	
100KR4	C6244	8.4	27.5	A	10/1/2015	10/7/2015	
100KR4	C6245	3.4	11.2	A	10/1/2015	10/20/2015	
100KR4	C6246	5.1	16.6	A	10/1/2015	10/20/2015	
100KR4	C6247	7.0	23.1	A	10/1/2015	10/20/2015	
100KR4	C6248	3.1	10.1	A	10/1/2015	10/21/2015	
100KR4	C6249	4.6	15.0	A	10/1/2015	10/21/2015	
100KR4	C6250	7.1	23.2	A	10/1/2015	10/21/2015	
100KR4	C6251	3.1	10.1	A	10/1/2015	10/21/2015	
100KR4	C6252	5.6	18.3	A	10/1/2015	10/21/2015	
100KR4	C6253	7.3	24.0	A	10/1/2015	10/21/2015	
100KR4	C6254	2.4	8.0	A	10/1/2015	10/22/2015	
100KR4	C6255	3.3	10.8	A	10/1/2015	10/22/2015	
100KR4	C6256	5.0	16.4	A	10/1/2015	10/22/2015	
100KR4	C6257	3.0	9.8	A	10/1/2015	10/2/2015	
100KR4	C6258	4.6	15.0	A	10/1/2015	10/2/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100KR4	C6259	5.9	19.5	A	10/1/2015	10/2/2015	
100KR4	C6260	2.5	8.3	A	10/1/2015	10/1/2015	
100KR4	C6261	4.1	13.6	A	10/1/2015	10/1/2015	
100KR4	C6263	3.9	12.8	A	10/1/2015	10/23/2015	
100KR4	C6264	6.2	20.2	A	10/1/2015	10/23/2015	
100KR4	C6265	8.3	27.3	A	10/1/2015	10/23/2015	
100KR4	C7641	2.6	8.6	Q	1/1/2015	1/12/2015	
100KR4	C7641	2.6	8.6	Q	4/1/2015	4/15/2015	
100KR4	C7641	2.6	8.6	Q	7/1/2015	7/24/2015	
100KR4	C7641	2.6	8.6	A	10/1/2015	10/6/2015	
100KR4	C7642	4.5	14.7	Q	1/1/2015	1/12/2015	
100KR4	C7642	4.5	14.7	Q	4/1/2015	4/15/2015	
100KR4	C7642	4.5	14.7	Q	7/1/2015	7/24/2015	
100KR4	C7642	4.5	14.7	A	10/1/2015	10/6/2015	
100KR4	C7643	5.3	17.2	Q	1/1/2015	1/12/2015	
100KR4	C7643	5.3	17.2	Q	4/1/2015	4/15/2015	
100KR4	C7643	5.3	17.2	Q	7/1/2015	7/24/2015	
100KR4	C7643	5.3	17.2	A	10/1/2015	10/6/2015	
100KR4	DK-04-2	3.5	11.5	A	10/1/2015	—	No yield.
100NR2	APT1	2.7	8.9	SA	6/1/2015	6/2/2015	
100NR2	APT1	2.7	8.9	SA	9/1/2015	9/21/2015	
100NR2	APT5	3.1	10.0	SA	6/1/2015	6/2/2015	
100NR2	APT5	3.1	10.0	SA	9/1/2015	9/10/2015	
100NR2	C6132	1.7	5.5	Q	3/1/2015	3/12/2015	
100NR2	C6132	1.7	5.5	Q	6/1/2015	7/9/2015	
100NR2	C6132	1.7	5.5	Q	6/1/2015	7/29/2015	
100NR2	C6132	1.7	5.5	Q	9/1/2015	9/9/2015	
100NR2	C6132	1.7	5.5	Q	12/1/2015	12/14/2015	
100NR2	C6317	2.4	7.9	A	9/1/2015	8/25/2015	
100NR2	C6318	4.1	13.5	A	9/1/2015	8/25/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100NR2	C6319	6.8	22.2	A	9/1/2015	8/25/2015	
100NR2	C6320	2.6	8.5	A	9/1/2015	8/25/2015	
100NR2	C6321	3.8	12.6	A	9/1/2015	8/25/2015	
100NR2	C6322	5.7	18.8	A	9/1/2015	8/25/2015	
100NR2	C6323	2.3	7.7	+	9/1/2015	8/26/2015	Added as substitute for Array-13A.
100NR2	C6323	2.3	7.7	+	12/1/2015	12/6/2015	
100NR2	C6324	4.3	14.2	S	6/1/2015	6/15/2015	
100NR2	C6324	4.3	14.2	S	9/1/2015	8/26/2015	
100NR2	C6325	7.1	23.4	A	9/1/2015	8/26/2015	
100NR2	C6326	3.0	9.9	A	9/1/2015	8/26/2015	
100NR2	C6327	5.1	16.7	A	9/1/2015	8/26/2015	
100NR2	C6328	7.6	24.8	A	9/1/2015	8/26/2015	
100NR2	C6329	4.8	15.6	A	9/1/2015	8/25/2015	
100NR2	C6330	6.7	22.1	A	9/1/2015	8/25/2015	
100NR2	C6331	8.7	28.7	A	9/1/2015	—	Broken.
100NR2	C6332	3.0	9.8	A	9/1/2015	8/25/2015	
100NR2	C6333	5.2	17.1	A	9/1/2015	8/25/2015	
100NR2	C6334	7.5	24.7	A	9/1/2015	8/25/2015	
100NR2	C6352	4.3	14.1	A	9/1/2015	8/25/2015	
100NR2	C7881	0.8	2.6	Q	3/1/2015	3/10/2015	
100NR2	C7881	0.8	2.6	Q	6/1/2015	6/2/2015	
100NR2	C7881	0.8	2.6	Q	9/1/2015	9/10/2015	
100NR2	C7881	0.8	2.6	Q	12/1/2015	12/6/2015	
100NR2	C7934	4.4	14.4	M	1/1/2015	1/12/2015	
100NR2	C7934	4.4	14.4	M	2/1/2015	2/10/2015	
100NR2	C7934	4.4	14.4	M	3/1/2015	3/11/2015	
100NR2	C7934	4.4	14.4	M	4/1/2015	4/15/2015	
100NR2	C7934	4.4	14.4	M	5/1/2015	5/11/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100NR2	C7934	4.4	14.4	M	6/1/2015	6/19/2015	
100NR2	C7934	4.4	14.4	M	7/1/2015	7/27/2015	
100NR2	C7934	4.4	14.4	M	8/1/2015	8/21/2015	
100NR2	C7934	4.4	14.4	M	9/1/2015	9/15/2015	
100NR2	C7934	4.4	14.4	M	10/1/2015	10/26/2015	
100NR2	C7934	4.4	14.4	M	11/1/2015	11/19/2015	
100NR2	C7934	4.4	14.4	M	12/1/2015	12/15/2015	
100NR2	C7935	5.7	18.8	M	1/1/2015	1/12/2015	
100NR2	C7935	5.7	18.8	M	2/1/2015	2/10/2015	
100NR2	C7935	5.7	18.8	M	3/1/2015	3/11/2015	
100NR2	C7935	5.7	18.8	M	4/1/2015	4/15/2015	
100NR2	C7935	5.7	18.8	A	5/1/2015	5/11/2015	
100NR2	C7935	5.7	18.8	M	6/1/2015	6/19/2015	
100NR2	C7935	5.7	18.8	M	7/1/2015	7/27/2015	
100NR2	C7935	5.7	18.8	M	8/1/2015	8/21/2015	
100NR2	C7935	5.7	18.8	M	9/1/2015	9/15/2015	
100NR2	C7935	5.7	18.8	M	10/1/2015	10/26/2015	
100NR2	C7935	5.7	18.8	M	11/1/2015	11/19/2015	
100NR2	C7935	5.7	18.8	M	12/1/2015	12/15/2015	
100NR2	C7936	8.9	29.2	M	1/1/2015	1/12/2015	
100NR2	C7936	8.9	29.2	M	2/1/2015	2/10/2015	
100NR2	C7936	8.9	29.2	M	3/1/2015	3/11/2015	
100NR2	C7936	8.9	29.2	M	4/1/2015	4/15/2015	
100NR2	C7936	8.9	29.2	A	5/1/2015	5/11/2015	
100NR2	C7936	8.9	29.2	M	6/1/2015	6/19/2015	
100NR2	C7936	8.9	29.2	M	7/1/2015	7/27/2015	
100NR2	C7936	8.9	29.2	M	8/1/2015	8/21/2015	
100NR2	C7936	8.9	29.2	M	9/1/2015	9/15/2015	
100NR2	C7936	8.9	29.2	M	10/1/2015	10/26/2015	
100NR2	C7936	8.9	29.2	M	11/1/2015	11/19/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100NR2	C7936	8.9	29.2	M	12/1/2015	12/15/2015	
100NR2	C7937	3.1	10.1	Q	3/1/2015	3/11/2015	
100NR2	C7937	3.1	10.1	Q	6/1/2015	6/19/2015	
100NR2	C7937	3.1	10.1	Q	9/1/2015	8/25/2015	
100NR2	C7937	3.1	10.1	Q	12/1/2015	12/15/2015	
100NR2	C7938	4.5	14.9	Q	3/1/2015	3/11/2015	
100NR2	C7938	4.5	14.9	Q	6/1/2015	6/19/2015	
100NR2	C7938	4.5	14.9	Q	9/1/2015	8/25/2015	
100NR2	C7938	4.5	14.9	Q	12/1/2015	12/15/2015	
100NR2	C7939	5.8	19.1	Q	3/1/2015	3/11/2015	
100NR2	C7939	5.8	19.1	Q	6/1/2015	6/19/2015	
100NR2	C7939	5.8	19.1	Q	9/1/2015	8/25/2015	
100NR2	C7939	5.8	19.1	Q	12/1/2015	12/15/2015	
100NR2	N116mArray-0A	1.6	5.4	Q	3/1/2015	3/12/2015	
100NR2	N116mArray-0A	1.6	5.4	Q	6/1/2015	6/24/2015	
100NR2	N116mArray-0A	1.6	5.4	Q	9/1/2015	—	Broken.
100NR2	N116mArray-0A	1.6	5.4	Q	12/1/2015	12/7/2015	
100NR2	N116mArray-10A	1.0	3.3	Q	3/1/2015	3/10/2015	
100NR2	N116mArray-10A	1.0	3.3	Q	6/1/2015	6/17/2015	
100NR2	N116mArray-10A	1.0	3.3	Q	9/1/2015	9/23/2015	
100NR2	N116mArray-10A	1.0	3.3	Q	12/1/2015	12/6/2015	
100NR2	N116mArray-11A	1.0	3.3	Q	3/1/2015	3/10/2015	
100NR2	N116mArray-11A	1.0	3.3	Q	6/1/2015	6/15/2015	
100NR2	N116mArray-11A	1.0	3.3	Q	9/1/2015	9/29/2015	
100NR2	N116mArray-11A	1.0	3.3	Q	12/1/2015	12/6/2015	
100NR2	N116mArray-13A	1.6	5.2	Q	3/1/2015	—	Low SC; likely broken; not sampled.
100NR2	N116mArray-13A	1.6	5.2	Q	6/1/2015	6/15/2015	Low SC; likely broken; sampled.

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100NR2	N116mArray-13A	1.6	5.2	Q	9/1/2015	8/26/2015	Low SC; likely broken; sampled.
100NR2	N116mArray-15A	1.7	5.5	Q	3/1/2015	3/10/2015	
100NR2	N116mArray-15A	1.7	5.5	Q	6/1/2015	6/15/2015	
100NR2	N116mArray-15A	1.7	5.5	Q	9/1/2015	8/26/2015	
100NR2	N116mArray-15A	1.7	5.5	Q	12/1/2015	12/6/2015	
100NR2	N116mArray-1A	1.2	3.9	Q	3/1/2015	3/10/2015	
100NR2	N116mArray-1A	1.2	3.9	Q	6/1/2015	7/15/2015	
100NR2	N116mArray-1A	1.2	3.9	Q	9/1/2015	9/29/2015	
100NR2	N116mArray-1A	1.2	3.9	Q	12/1/2015	12/6/2015	
100NR2	N116mArray-2A	0.6	2.1	Q	3/1/2015	3/12/2015	
100NR2	N116mArray-2A	0.6	2.1	Q	6/1/2015	6/24/2015	
100NR2	N116mArray-2A	0.6	2.1	Q	9/1/2015	9/21/2015	
100NR2	N116mArray-2A	0.6	2.1	Q	12/1/2015	12/6/2015	
100NR2	N116mArray-3A	0.6	2.0	Q	12/1/2014	1/13/2015	Delayed from 2014.
100NR2	N116mArray-3A	0.6	2.0	Q	3/1/2015	3/12/2015	
100NR2	N116mArray-3A	0.6	2.0	Q	6/1/2015	7/9/2015	
100NR2	N116mArray-3A	0.6	2.0	Q	6/1/2015	7/23/2015	
100NR2	N116mArray-3A	0.6	2.0	Q	9/1/2015	9/21/2015	
100NR2	N116mArray-3A	0.6	2.0	Q	12/1/2015	12/7/2015	
100NR2	N116mArray-4A	1.0	3.3	Q	3/1/2015	3/12/2015	
100NR2	N116mArray-4A	1.0	3.3	Q	6/1/2015	7/9/2015	
100NR2	N116mArray-4A	1.0	3.3	Q	9/1/2015	9/9/2015	
100NR2	N116mArray-4A	1.0	3.3	Q	12/1/2015	12/7/2015	
100NR2	N116mArray-6A	0.7	2.3	Q	3/1/2015	3/10/2015	
100NR2	N116mArray-6A	0.7	2.3	Q	6/1/2015	6/17/2015	
100NR2	N116mArray-6A	0.7	2.3	Q	9/1/2015	9/10/2015	
100NR2	N116mArray-6A	0.7	2.3	Q	12/1/2015	12/6/2015	
100NR2	N116mArray-8A	1.0	3.3	Q	3/1/2015	3/10/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100NR2	N116mArray-8A	1.0	3.3	Q	6/1/2015	6/17/2015	
100NR2	N116mArray-8A	1.0	3.3	Q	9/1/2015	10/6/2015	
100NR2	N116mArray-8A	1.0	3.3	Q	12/1/2015	12/6/2015	
100NR2	N116mArray-9A	1.0	3.3	Q	3/1/2015	3/10/2015	
100NR2	N116mArray-9A	1.0	3.3	Q	6/1/2015	6/17/2015	
100NR2	N116mArray-9A	1.0	3.3	Q	9/1/2015	9/21/2015	
100NR2	N116mArray-9A	1.0	3.3	Q	12/1/2015	12/6/2015	
100NR2	NVP1-1	1.0	3.3	Q	12/1/2014	1/13/2015	Delayed from 2014.
100NR2	NVP1-1	1.0	3.3	Q	3/1/2015	3/10/2015	
100NR2	NVP1-1	1.0	3.3	Q	6/1/2015	7/15/2015	
100NR2	NVP1-1	1.0	3.3	Q	9/1/2015	8/27/2015	
100NR2	NVP1-1	1.0	3.3	Q	12/1/2015	12/6/2015	
100NR2	NVP1-2	1.2	4.1	Q	3/1/2015	3/10/2015	
100NR2	NVP1-2	1.2	4.1	Q	6/1/2015	6/3/2015	
100NR2	NVP1-2	1.2	4.1	Q	9/1/2015	8/27/2015	
100NR2	NVP1-2	1.2	4.1	Q	12/1/2015	12/6/2015	
100NR2	NVP1-3	1.7	5.6	Q	3/1/2015	3/10/2015	
100NR2	NVP1-3	1.7	5.6	Q	6/1/2015	6/3/2015	
100NR2	NVP1-3	1.7	5.6	Q	9/1/2015	8/27/2015	
100NR2	NVP1-3	1.7	5.6	Q	12/1/2015	12/6/2015	
100NR2	NVP1-4	1.7	5.7	Q	3/1/2015	3/10/2015	
100NR2	NVP1-4	1.7	5.7	Q	6/1/2015	6/3/2015	
100NR2	NVP1-4	1.7	5.7	Q	9/1/2015	8/27/2015	
100NR2	NVP1-4	1.7	5.7	Q	12/1/2015	12/6/2015	
100NR2	NVP1-5	2.2	7.2	Q	3/1/2015	3/10/2015	
100NR2	NVP1-5	2.2	7.2	Q	6/1/2015	6/3/2015	
100NR2	NVP1-5	2.2	7.2	Q	9/1/2015	8/27/2015	
100NR2	NVP1-5	2.2	7.2	Q	12/1/2015	12/6/2015	
100NR2	NVP2-115.1	1.9	6.2	Q	3/1/2015	3/10/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
100NR2	NVP2-115.1	1.9	6.2	Q	6/1/2015	6/3/2015	
100NR2	NVP2-115.1	1.9	6.2	Q	9/1/2015	8/27/2015	
100NR2	NVP2-115.1	1.9	6.2	Q	12/1/2015	12/6/2015	
100NR2	NVP2-115.4	1.6	5.3	Q	3/1/2015	3/10/2015	
100NR2	NVP2-115.4	1.6	5.3	Q	6/1/2015	6/3/2015	
100NR2	NVP2-115.4	1.6	5.3	Q	9/1/2015	8/27/2015	
100NR2	NVP2-115.4	1.6	5.3	Q	12/1/2015	12/6/2015	
100NR2	NVP2-115.7	1.3	4.3	Q	3/1/2015	3/10/2015	
100NR2	NVP2-115.7	1.3	4.3	Q	6/1/2015	6/3/2015	
100NR2	NVP2-115.7	1.3	4.3	Q	9/1/2015	9/10/2015	
100NR2	NVP2-115.7	1.3	4.3	Q	12/1/2015	12/6/2015	
100NR2	NVP2-116.0	1.0	3.3	Q	3/1/2015	3/10/2015	
100NR2	NVP2-116.0	1.0	3.3	Q	6/1/2015	6/3/2015	
100NR2	NVP2-116.0	1.0	3.3	Q	9/1/2015	8/27/2015	
100NR2	NVP2-116.0	1.0	3.3	Q	12/1/2015	12/6/2015	
100NR2	NVP2-116.3	0.7	2.3	Q	3/1/2015	3/10/2015	
100NR2	NVP2-116.3	0.7	2.3	Q	6/1/2015	6/3/2015	
100NR2	NVP2-116.3	0.7	2.3	Q	9/1/2015	9/1/2015	
100NR2	NVP2-116.3	0.7	2.3	Q	12/1/2015	12/6/2015	
200PO1	82-M	4.4	14.5	A	12/1/2014	1/7/2015	Delayed from 2014.
200PO1	82-M	4.4	14.5	A	12/1/2015	10/29/2015	
200PO1	82-S	2.6	8.5	A	12/1/2014	1/7/2015	Delayed from 2014.
200PO1	82-S	2.6	8.5	A	12/1/2015	10/29/2015	
200PO1	84-D	6.7	22.0	A	12/1/2014	1/13/2015	Delayed from 2014.
200PO1	84-D	6.7	22.0	A	12/1/2015	12/14/2015	
200PO1	84-M	4.3	14.0	A	12/1/2014	1/7/2015	Delayed from 2014.
200PO1	84-M	4.3	14.0	A	12/1/2015	10/29/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
200PO1	84-S	2.4	8.0	A	12/1/2014	1/8/2015	Delayed from 2014.
200PO1	84-S	2.4	8.0	A	12/1/2015	10/29/2015	
200PO1	85-D	7.9	26.0	A	12/1/2014	1/8/2015	Delayed from 2014.
200PO1	85-D	7.9	26.0	A	12/1/2015	—	Broken.
200PO1	85-M	5.2	17.0	A	12/1/2014	1/8/2015	Delayed from 2014.
200PO1	85-M	5.2	17.0	A	12/1/2015	11/2/2015	
200PO1	85-S	2.4	8.0	A	12/1/2014	1/8/2015	Delayed from 2014.
200PO1	85-S	2.4	8.0	A	12/1/2015	11/2/2015	
200PO1	86-D	7.9	26.0	A	12/1/2014	1/9/2015	Delayed from 2014.
200PO1	86-D	7.9	26.0	A	12/1/2015	11/2/2015	
200PO1	86-M	3.0	10.0	A	12/1/2014	1/9/2015	Delayed from 2014.
200PO1	86-M	3.0	10.0	A	12/1/2015	12/14/2015	
200PO1	86-S	2.1	7.0	A	12/1/2014	1/9/2015	Delayed from 2014.
200PO1	86-S	2.1	7.0	A	12/1/2015	—	Insufficient yield.
200PO1	C6353	1.0	3.2	A	12/1/2014	1/14/2015	Delayed from 2014.
200PO1	C6353	1.0	3.2	A	12/1/2015	—	Submerged.
200PO1	C6356	1.0	3.4	A	12/1/2014	1/9/2015	Delayed from 2014.
200PO1	C6356	1.0	3.4	A	12/1/2015	11/9/2015	
200PO1	C6359	1.3	4.3	A	12/1/2014	1/14/2015	Delayed from 2014.
200PO1	C6359	1.3	4.3	A	12/1/2015	—	Submerged.
200PO1	C6362	2.0	6.6	A	12/1/2014	1/7/2015	Delayed from 12/2014.
200PO1	C6362	2.0	6.6	A	12/1/2015	11/9/2015	

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
200PO1	C6368	2.0	6.4	A	12/1/2014	1/14/2015	Delayed from 12/2014.
200PO1	C6368	2.0	6.4	A	12/1/2015	—	Submerged.
200PO1	C6374	2.1	6.8	A	12/1/2014	1/8/2015	Delayed from 2014.
200PO1	C6374	2.1	6.8	A	12/1/2015	11/9/2015	
200PO1	C6378	1.5	5.1	A	12/1/2014	1/8/2015	Delayed from 2014.
200PO1	C6378	1.5	5.1	A	12/1/2015	—	Submerged.
200PO1	C6380	0.5	1.5	A	12/1/2014	1/8/2015	Delayed from 12/2014.
200PO1	C6380	0.5	1.5	A	12/1/2015	11/9/2015	
200PO1	C6383	2.2	7.1	A	12/1/2014	1/8/2015	Delayed from 2014.
200PO1	C6383	2.2	7.1	A	12/1/2015	11/2/2015	
200PO1	C6384	4.4	14.3	A	12/1/2014	1/9/2015	Delayed from 2014.
200PO1	C6384	4.4	14.3	A	12/1/2015	11/2/2015	
300FF5	AT-3-1-D(1)	6.4	21.1	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-1-M	5.1	16.8	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-1-S	3.5	11.6	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-2-M	5.1	16.6	A	12/1/2014	—	No yield.
300FF5	AT-3-2-S	3.3	10.8	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-3-D	8.9	29.1	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-3-M	4.6	15.1	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-3-S	2.1	6.9	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-4-D	2.9	9.6	A	12/1/2014	1/8/2015	Delayed from 2014.

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
300FF5	AT-3-4-M	2.8	9.2	A	12/1/2014	—	No yield.
300FF5	AT-3-4-S	2.1	7.0	A	12/1/2014	1/8/2015	Delayed from 2014.
300FF5	AT-3-5-S	2.3	7.7	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-6-D	11.8	38.6	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-6-M	6.7	21.8	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-6-S	2.9	9.6	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-7-D	11.4	37.3	SA	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-7-M	6.4	20.8	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-7-S	2.6	8.6	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-8-M	4.3	14.0	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	AT-3-8-S	2.4	8.0	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	C6341	3.6	11.7	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	C6342	5.3	17.5	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	C6343	6.3	20.6	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	C6344	2.2	7.3	A	12/1/2014	1/6/2015	Delayed from 2014.
300FF5	C6347	3.0	9.8	SA	12/1/2014	1/7/2015	Delayed from 2014.
300FF5	C6348	3.1	10.0	A	12/1/2014	1/7/2015	Delayed from 2014.
300FF5	C6350	2.6	8.4	A	12/1/2014	1/6/2015	Delayed from 2014.

Table C-2. Aquifer Tube Sample Dates and Depths

Segment	Tube Name	Depth (m)	Depth (ft)	Frequency	Month Scheduled	Sample Dates	Comments
300FF5	C6351	4.3	14.2	A	12/1/2014	1/6/2015	Delayed from 2014.

Note: Does not include 100-BC hyporheic sampling points, which were sampled monthly between January and October 2015.

— = not sampled

Blank cells = no comment

A = to be sampled annually

M = to be sampled monthly

Q = to be sampled quarterly

SA = to be sampled semiannually

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