

**Rocky Flats Site, Colorado,
Surface Water Configuration
Adaptive Management Plan
Quarterly Report**

Second Quarter Calendar Year 2017

July 2017



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

Contents

Abbreviations.....	ii
1.0 Introduction.....	1
2.0 AMP Highlights: Second Quarter CY 2017.....	2
3.0 Analytical Data: Second Quarter CY 2017.....	2

Tables

Table 1. Analytical Results for Water Samples

Table 2. Water Sampling Events: Second Quarter CY 2017

Abbreviations

AMP	Adaptive Management Plan
CY	calendar year
DOE	U.S. Department of Energy
EA	<i>Rocky Flats Surface Water Configuration Environmental Assessment</i>
POC	Point of Compliance
RFLMA	<i>Rocky Flats Legacy Management Agreement</i>
Site	Rocky Flats Site

1.0 Introduction

The Proposed Action assessed in the *Rocky Flats Surface Water Configuration Environmental Assessment* (EA) is to breach the remaining retention pond dams at the Rocky Flats Site, Colorado (the Site), to allow surface water flow to return to the approximate conditions that prevailed before the retention ponds were constructed. As stated in the EA, based on extensive water quality monitoring data and a thorough environmental review, the U.S. Department of Energy (DOE) Office of Legacy Management has determined that the Proposed Action does not present a significant impact on the environment under the National Environmental Policy Act evaluation criteria.

Some members of the public have commented that additional information must be collected prior to implementing the final steps of the Proposed Action to help reduce uncertainty as to whether completion of the Proposed Action will adversely impact the quality of water flowing from the Site into downstream communities. In response to the requests, DOE initiated a cooperative effort with neighboring community representatives and other interested stakeholders to develop and implement an Adaptive Management Plan (AMP) to provide additional information. The AMP group is composed of these representatives and stakeholders. The resulting AMP reflects DOE's long-term commitment to implementing the activities that the AMP describes.

The AMP provides for a monitoring and data evaluation program to assist DOE in deciding whether to implement the final steps of the Proposed Action by breaching the terminal dams during the planned time frame of 2018–2020, or to delay the completion of the Proposed Action to gather additional information for evaluation. The terminal dams will be operated in a flow-through condition during the period leading up to the completion of the Proposed Action, which will provide data similar to what can be expected post-breach. In addition to the AMP monitoring program, the AMP identifies certain performance indicators that DOE will consider in deciding whether to adjust the time frame for completing the Proposed Action.

This AMP Quarterly Report for the second quarter of calendar year (CY) 2017 is provided in accordance with Section 5.0, "Reporting," in the AMP. Section 3.0 of this report provides the second quarter data summary tables, which include all validated analytical data for the AMP monitoring objectives available as of June 30, 2017. Subsequent AMP reports will include data that were not tabulated in previous AMP reports.

AMP monitoring objectives, locations, and sampling criteria are itemized in Table 2 of the AMP. Additional field implementation for the AMP monitoring objectives can be found in the *Rocky Flats, Colorado, Site Site Operations Guide*, Appendix I, "Rocky Flats Site, Colorado, Additional Field Implementation Detail for Selected Monitoring Objectives."

This report routinely includes analytical data for the following AMP monitoring objectives:

- Pre-discharge sampling (Item 1, AMP Table 2)
- Targeted groundwater monitoring (Item 2, AMP Table 2)
- Monitoring to evaluate flow-through operations at terminal Ponds A-4, B-5, and C-2 (Item 4, AMP Table 2)
- Storm-event monitoring (Item 5, AMP Table 2)

- Continuous flow-paced composite sampling to evaluate uranium transport (Item 6, AMP Table 2)
- Grab sampling for uranium in North and South Walnut Creeks (Item 7, AMP Table 2)
- Grab sampling for nitrate + nitrite as nitrogen in Walnut Creek (Item 8, AMP Table 2)

2.0 AMP Highlights: Second Quarter CY 2017

- Eight informal emails were transmitted to AMP participants providing notification that composite samples had been retrieved from the Points of Compliance (POCs) (WOMPOC—Woman Creek at COU boundary and WALPOC—Walnut Creek at COU boundary).
- Four informal emails were transmitted to AMP participants providing notification that recent analytical data from the POCs had been validated and would soon be available through the Geospatial Environmental Mapping System (GEMS).
- Five informal emails were transmitted to AMP participants providing notification of individual analytical results from POCs and points of evaluation that were above the applicable *Rocky Flats Legacy Management Agreement* (RFLMA) surface water standard (RFLMA Attachment 2, Table 1).
- During the quarter, 137 samples were collected in support of AMP monitoring objectives.

3.0 Analytical Data: Second Quarter CY 2017

Table 1, “Analytical Results for Water Samples,” is available at the end of this report.

Table 2, “Water Sampling Events: Second Quarter CY 2017,” is available at the end of this report.

Table 1. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
A1EFF	SL	1/12/2017	17018236	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	16	mg/L		F	0.038		valid	G	STD
A1EFF	SL	1/12/2017	17018236	07440-61-1	Uranium	N001	35	ug/L		F	0.05		valid	G	STD
A1EFF	SL	1/25/2017	17018252	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	18	mg/L		F	0.038		valid	G	STD
A1EFF	SL	1/25/2017	17018252	07440-61-1	Uranium	N001	47	ug/L		F	0.05		valid	G	STD
A1EFF	SL	2/6/2017	17028269	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	16	mg/L		F	0.038		valid	G	STD
A1EFF	SL	2/6/2017	17028269	07440-61-1	Uranium	N001	49	ug/L		F	0.05		valid	G	STD
A1EFF	SL	2/22/2017	17028299	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	9.1	mg/L		F	0.019		valid	G	STD
A1EFF	SL	2/22/2017	17028299	07440-61-1	Uranium	N001	50	ug/L		F	0.05		valid	G	STD
A1EFF	SL	3/9/2017	17038323	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	13	mg/L		F	0.038		valid	G	STD
A1EFF	SL	3/9/2017	17038323	07440-61-1	Uranium	N001	54	ug/L		F	0.05		valid	G	STD
A1EFF	SL	3/20/2017	17038344	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	5.8	mg/L		F	0.019		valid	G	STD
A1EFF	SL	3/20/2017	17038344	07440-61-1	Uranium	N001	54	ug/L		F	0.05		valid	G	STD
A1EFF	SL	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	3.5	mg/L		F	0.019		valid	G	STD
A1EFF	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	9.3	ug/L		F	0.05		valid	G	STD
A2EFF	SL	1/12/2017	17018236	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	25	mg/L		F	0.095		valid	G	STD
A2EFF	SL	1/12/2017	17018236	07440-61-1	Uranium	N001	32	ug/L		F	0.05		valid	G	STD
A2EFF	SL	1/25/2017	17018252	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	19	mg/L		F	0.038		valid	G	STD
A2EFF	SL	1/25/2017	17018252	07440-61-1	Uranium	N001	49	ug/L		F	0.05		valid	G	STD
A2EFF	SL	2/6/2017	17028269	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	18	mg/L		F	0.038		valid	G	STD
A2EFF	SL	2/6/2017	17028269	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	18	mg/L		D	0.038		valid	G	STD
A2EFF	SL	2/6/2017	17028269	07440-61-1	Uranium	N001	54	ug/L		F	0.05		valid	G	STD
A2EFF	SL	2/6/2017	17028269	07440-61-1	Uranium	N002	52	ug/L		D	0.05		valid	G	STD
A2EFF	SL	2/22/2017	17028299	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	8.9	mg/L		F	0.019		valid	G	STD
A2EFF	SL	2/22/2017	17028299	07440-61-1	Uranium	N001	51	ug/L		F	0.05		valid	G	STD
A2EFF	SL	3/9/2017	17038323	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	9.3	mg/L		F	0.019		valid	G	STD
A2EFF	SL	3/9/2017	17038323	07440-61-1	Uranium	N001	46	ug/L		F	0.05		valid	G	STD
A2EFF	SL	3/20/2017	17038344	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	2.9	mg/L		F	0.019		valid	G	STD
A2EFF	SL	3/20/2017	17038344	07440-61-1	Uranium	N001	49	ug/L		F	0.05		valid	G	STD
A2EFF	SL	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	4.1	mg/L		F	0.019		valid	G	STD
A2EFF	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	16	ug/L		F	0.05		valid	G	STD
A3EFF	SL	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	4.3	mg/L		F	0.019		valid	G	STD
A3EFF	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	26	ug/L		F	0.05		valid	G	STD
A4 POND	SL	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.84	mg/L		F	0.019		valid	G	STD
A4 POND	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	14	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	1/12/2017	17018236	07440-61-1	Uranium	N001	21	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	1/25/2017	17018252	07440-61-1	Uranium	N001	33	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	2/6/2017	17028269	07440-61-1	Uranium	N001	24	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	2/22/2017	17028299	07440-61-1	Uranium	N001	28	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	3/9/2017	17038323	07440-61-1	Uranium	N001	25	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	3/20/2017	17038344	07440-61-1	Uranium	N001	26	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	14	ug/L		F	0.05		valid	G	STD
B3OUTFLOW	SL	4/5/2017	17048392	07440-61-1	Uranium	N002	15	ug/L		D	0.05		valid	G	STD
B5INFLOW	SL	10/12/2016	17018246	07440-61-1	Uranium	N003	8.32	ug/L		F	0.067		valid	C	GEN
B5INFLOW	SL	1/12/2017	17018236	07440-61-1	Uranium	N001	15	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	1/19/2017	17038378	07440-61-1	Uranium	N001	12.6	ug/L		F	0.067		valid	C	GEN
B5INFLOW	SL	1/25/2017	17018252	07440-61-1	Uranium	N001	17	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	2/6/2017	17028269	07440-61-1	Uranium	N001	16	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	2/22/2017	17028299	07440-61-1	Uranium	N001	13	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	3/9/2017	17038323	07440-61-1	Uranium	N001	13	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	3/20/2017	17038344	07440-61-1	Uranium	N001	11	ug/L		F	0.05		valid	G	STD
B5INFLOW	SL	3/27/2017	17048407	07440-61-1	Uranium	N001	12.7	ug/L		F	0.134		valid	C	GEN
B5INFLOW	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	11	ug/L		F	0.05		valid	G	STD
GS08	SL	8/15/2016	17018246	AM-241	Americium-241	N001	0.0106	pCi/L	HU	F	0.0298	0.0171	valid	C	GEN
GS08	SL	8/15/2016	17018246	PU-239,240	Plutonium-239, 240	N001	0.00799	pCi/L	U	F	0.017	0.0133	valid	C	GEN

Table 1. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
GS08	SL	8/15/2016	17018246	07440-61-1	Uranium	N001	8.3	ug/L		F	0.067		valid	C	GEN
GS08	SL	1/18/2017	17048385	AM-241	Americium-241	N001	0.0115	pCi/L	U	F	0.043	0.0197	valid	C	GEN
GS08	SL	1/18/2017	17048385	PU-239,240	Plutonium-239, 240	N001	0.00753	pCi/L	U	F	0.0189	0.0105	valid	C	GEN
GS08	SL	1/18/2017	17048385	07440-61-1	Uranium	N001	11.3	ug/L		F	0.067		valid	C	GEN
GS08	SL	2/6/2017	17028269	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
GS08	SL	2/6/2017	17028269	07440-61-1	Uranium	N001	5.8	ug/L		F	0.05		valid	G	STD
GS08	SL	2/22/2017	17028299	07440-61-1	Uranium	N001	9.3	ug/L		F	0.05		valid	G	STD
GS08	SL	2/22/2017	17028299	07440-61-1	Uranium	N002	8.6	ug/L		D	0.05		valid	G	STD
GS08	SL	3/9/2017	17038323	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
GS08	SL	3/9/2017	17038323	07440-61-1	Uranium	N001	10	ug/L		F	0.05		valid	G	STD
GS08	SL	3/20/2017	17038344	07440-61-1	Uranium	N001	10	ug/L		F	0.05		valid	G	STD
GS08	SL	3/30/2017	17048407	AM-241	Americium-241	N001	0	pCi/L	U	F	0.0297	0.00762	valid	C	GEN
GS08	SL	3/30/2017	17048407	PU-239,240	Plutonium-239, 240	N001	0.0126	pCi/L	U	F	0.0237	0.0124	valid	C	GEN
GS08	SL	3/30/2017	17048407	07440-61-1	Uranium	N001	11.5	ug/L		F	0.134		valid	C	GEN
GS08	SL	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
GS08	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	9.1	ug/L		F	0.05		valid	G	STD
GS10	SL	11/21/2016	16118157	07440-61-1	Uranium	N003	21	ug/L		F	0.05		valid	G	STD
GS10	SL	1/12/2017	17018236	07440-61-1	Uranium	N001	20	ug/L		F	0.05		valid	G	STD
GS10	SL	1/25/2017	17018252	07440-61-1	Uranium	N001	26	ug/L		F	0.05		valid	G	STD
GS10	SL	2/6/2017	17028269	07440-61-1	Uranium	N001	18	ug/L		F	0.05		valid	G	STD
GS10	SL	2/6/2017	17028269	07440-61-1	Uranium	N002	19	ug/L		D	0.05		valid	G	STD
GS10	SL	2/22/2017	17028299	07440-61-1	Uranium	N001	19	ug/L		F	0.05		valid	G	STD
GS10	SL	3/9/2017	17038323	07440-61-1	Uranium	N002	19	ug/L		F	0.05		valid	G	STD
GS10	SL	3/20/2017	17038344	07440-61-1	Uranium	N001	18	ug/L		F	0.05		valid	G	STD
GS10	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	14	ug/L		F	0.05		valid	G	STD
GS12	SL	2/2/2017	17048397	07440-61-1	Uranium	N001	36.5	ug/L		F	0.067		valid	C	GEN
GS12	SL	4/6/2017	17048441	07440-61-1	Uranium	N001	18	ug/L		F	0.05		valid	C	STD
GS13	SL	11/21/2016	16118157	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N003	87	mg/L		F	0.48		valid	G	STD
GS13	SL	11/21/2016	16118157	07440-61-1	Uranium	N003	47	ug/L		F	0.05		valid	G	STD
GS13	SL	1/12/2017	17018236	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	23	mg/L		F	0.095		valid	G	STD
GS13	SL	1/12/2017	17018236	07440-61-1	Uranium	N001	41	ug/L		F	0.05		valid	G	STD
GS13	SL	1/25/2017	17018252	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	21	mg/L		F	0.095		valid	G	STD
GS13	SL	1/25/2017	17018252	07440-61-1	Uranium	N001	50	ug/L		F	0.05		valid	G	STD
GS13	SL	2/6/2017	17028269	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	19	mg/L		F	0.095		valid	G	STD
GS13	SL	2/6/2017	17028269	07440-61-1	Uranium	N001	45	ug/L		F	0.05		valid	G	STD
GS13	SL	2/22/2017	17028299	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	19	mg/L		F	0.038		valid	G	STD
GS13	SL	2/22/2017	17028299	07440-61-1	Uranium	N001	51	ug/L		F	0.05		valid	G	STD
GS13	SL	3/9/2017	17038323	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	19	mg/L		F	0.038		valid	G	STD
GS13	SL	3/9/2017	17038323	07440-61-1	Uranium	N001	54	ug/L		F	0.05		valid	G	STD
GS13	SL	3/20/2017	17038344	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	18	mg/L		F	0.038		valid	G	STD
GS13	SL	3/20/2017	17038344	07440-61-1	Uranium	N001	54	ug/L		F	0.05		valid	G	STD
GS13	SL	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	5.3	mg/L		F	0.019		valid	G	STD
GS13	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	7.7	ug/L		F	0.05		valid	G	STD
GS31	SL	5/5/2016	17048385	AM-241	Americium-241	N001	-0.0396	pCi/L	HU	F	0.039	0.0228	J	C	GEN
GS31	SL	5/5/2016	17048385	PU-239,240	Plutonium-239, 240	N001	0.0233	pCi/L	HU	F	0.0234	0.0153	J	C	GEN
GS31	SL	5/5/2016	17048385	07440-61-1	Uranium	N001	13.1	ug/L		F	0.067		J	C	GEN
GS31	SL	3/30/2017	17048397	AM-241	Americium-241	N001	0.00983	pCi/L	U	F	0.046	0.0167	valid	C	GEN
GS31	SL	3/30/2017	17048397	PU-239,240	Plutonium-239, 240	N001	0.0308	pCi/L		F	0.0289	0.0215	U	C	GEN
GS31	SL	3/30/2017	17048397	07440-61-1	Uranium	N001	14.2	ug/L		F	0.067		valid	C	GEN
SPOUT	TS	1/12/2017	17018236	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPOUT	TS	1/12/2017	17018236	07440-61-1	Uranium	N001	76	ug/L		F	0.05		valid	G	STD
SPOUT	TS	1/25/2017	17018252	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPOUT	TS	1/25/2017	17018252	07440-61-1	Uranium	N001	62	ug/L		F	0.05		valid	G	STD
SPOUT	TS	2/6/2017	17028269	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPOUT	TS	2/6/2017	17028269	07440-61-1	Uranium	N001	34	ug/L		F	0.05		valid	G	STD
SPOUT	TS	2/22/2017	17028299	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.084	mg/L		F	0.019		valid	G	STD

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LOCATION CODE	LOCATION TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
SPOUT	TS	2/22/2017	17028299	07440-61-1	Uranium	N001	61	ug/L		F	0.05		valid	G	STD
SPOUT	TS	3/9/2017	17038323	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.16	mg/L		F	0.019		valid	G	STD
SPOUT	TS	3/9/2017	17038323	07440-61-1	Uranium	N001	48	ug/L		F	0.05		valid	G	STD
SPOUT	TS	3/20/2017	17038344	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPOUT	TS	3/20/2017	17038344	07440-61-1	Uranium	N001	47	ug/L		F	0.05		valid	G	STD
SPOUT	TS	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPOUT	TS	4/5/2017	17048392	07440-61-1	Uranium	N001	67	ug/L		F	0.05		valid	G	STD
SW093	SL	1/12/2017	17018236	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.4	mg/L		F	0.019		valid	G	STD
SW093	SL	1/12/2017	17018236	07440-61-1	Uranium	N001	6.6	ug/L		F	0.05		valid	G	STD
SW093	SL	1/25/2017	17018252	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.3	mg/L		F	0.019		valid	G	STD
SW093	SL	1/25/2017	17018252	07440-61-1	Uranium	N001	8.7	ug/L		F	0.05		valid	G	STD
SW093	SL	2/6/2017	17028269	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.2	mg/L		F	0.019		valid	G	STD
SW093	SL	2/6/2017	17028269	07440-61-1	Uranium	N001	9.1	ug/L		F	0.05		valid	G	STD
SW093	SL	2/22/2017	17028299	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	2	mg/L		F	0.019		valid	G	STD
SW093	SL	2/22/2017	17028299	07440-61-1	Uranium	N001	8.4	ug/L		F	0.05		valid	G	STD
SW093	SL	3/9/2017	17038323	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	1.9	mg/L		F	0.019		valid	G	STD
SW093	SL	3/9/2017	17038323	07440-61-1	Uranium	N001	10	ug/L		F	0.05		valid	G	STD
SW093	SL	3/20/2017	17038344	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	2.6	mg/L		F	0.019		valid	G	STD
SW093	SL	3/20/2017	17038344	07440-61-1	Uranium	N001	9.7	ug/L		F	0.05		valid	G	STD
SW093	SL	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.38	mg/L		F	0.019		valid	G	STD
SW093	SL	4/5/2017	17048392	07440-61-1	Uranium	N001	1.8	ug/L		F	0.05		valid	G	STD
WALPOC	SL	6/16/2016	17018220	AM-241	Americium-241	N002	0.00784	pCi/L	HU	F	0.0372	0.017	J	C	GEN
WALPOC	SL	6/16/2016	17018220	PU-239,240	Plutonium-239, 240	N002	0.0181	pCi/L	HU	F	0.0257	0.0154	J	C	GEN
WALPOC	SL	6/16/2016	17018220	07440-61-1	Uranium	N002	16.9	ug/L		F	0.067		valid	C	GEN
WALPOC	SL	1/3/2017	17018258	AM-241	Americium-241	N002	-0.00386	pCi/L	U	F	0.0181	0.00976	valid	C	GEN
WALPOC	SL	1/3/2017	17018220	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.0499	mg/L	J	F	0.017		valid	G	GEN
WALPOC	SL	1/3/2017	17018258	PU-239,240	Plutonium-239, 240	N002	0.0114	pCi/L	U	F	0.0245	0.0154	valid	C	GEN
WALPOC	SL	1/3/2017	17018258	07440-61-1	Uranium	N002	18.5	ug/L		F	0.067		valid	C	GEN
WALPOC	SL	1/12/2017	17018236	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.11	mg/L		F	0.019		valid	G	STD
WALPOC	SL	1/30/2017	17038334	AM-241	Americium-241	N002	-0.0052	pCi/L	U	F	0.0454	0.0125	valid	C	GEN
WALPOC	SL	1/30/2017	17018258	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.0852	mg/L		F	0.017		valid	G	GEN
WALPOC	SL	1/30/2017	17038334	PU-239,240	Plutonium-239, 240	N002	0.00285	pCi/L	U	F	0.0167	0.00969	valid	C	GEN
WALPOC	SL	1/30/2017	17038334	07440-61-1	Uranium	N002	21.9	ug/L		F	0.067		valid	C	GEN
WALPOC	SL	2/6/2017	17028269	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.15	mg/L		F	0.019		valid	G	STD
WALPOC	SL	3/9/2017	17038323	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.11	mg/L		F	0.019		valid	G	STD
WALPOC	SL	3/13/2017	17048396	AM-241	Americium-241	N002	-0.00669	pCi/L	U	F	0.0418	0.0131	valid	C	GEN
WALPOC	SL	3/13/2017	17038334	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.211	mg/L		F	0.017		valid	G	GEN
WALPOC	SL	3/13/2017	17048396	PU-239,240	Plutonium-239, 240	N002	-0.00366	pCi/L	U	F	0.0275	0.0113	valid	C	GEN
WALPOC	SL	3/13/2017	17048396	07440-61-1	Uranium	N002	14.1	ug/L		F	0.067		valid	C	GEN
WALPOC	SL	4/5/2017	17048392	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.038	mg/L	J	F	0.019		valid	G	STD
WALPOC	SL	4/6/2017	17048396	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.38	mg/L	H	F	0.017		valid	G	GEN
WOMPOC	SL	11/22/2016	17018220	AM-241	Americium-241	N001	0.00124	pCi/L	U	F	0.0177	0.01	valid	C	GEN
WOMPOC	SL	11/22/2016	17018220	PU-239,240	Plutonium-239, 240	N001	0.00726	pCi/L	U	F	0.0231	0.0142	valid	C	GEN
WOMPOC	SL	11/22/2016	17018220	07440-61-1	Uranium	N001	3.72	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	1/3/2017	17028259	AM-241	Americium-241	N001	0.00614	pCi/L	U	F	0.0217	0.0135	valid	C	GEN
WOMPOC	SL	1/3/2017	17028259	PU-239,240	Plutonium-239, 240	N001	1.2E-09	pCi/L	U	F	0.0216	0.00977	valid	C	GEN
WOMPOC	SL	1/3/2017	17028259	07440-61-1	Uranium	N001	3.5	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	1/31/2017	17038306	AM-241	Americium-241	N001	0	pCi/L	U	F	0.0308	0.00855	valid	C	GEN
WOMPOC	SL	1/31/2017	17038306	PU-239,240	Plutonium-239, 240	N001	-0.00338	pCi/L	U	F	0.0253	0.0132	valid	C	GEN
WOMPOC	SL	1/31/2017	17038306	07440-61-1	Uranium	N001	4.06	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	3/1/2017	17038378	AM-241	Americium-241	N001	0.00402	pCi/L	U	F	0.0234	0.0151	valid	C	GEN
WOMPOC	SL	3/1/2017	17038378	PU-239,240	Plutonium-239, 240	N001	0.00594	pCi/L	U	F	0.0139	0.00841	valid	C	GEN
WOMPOC	SL	3/1/2017	17038378	07440-61-1	Uranium	N001	4.15	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	3/27/2017	17048387	AM-241	Americium-241	N001	-0.00104	pCi/L	U	F	0.0195	0.0079	valid	C	GEN
WOMPOC	SL	3/27/2017	17048387	PU-239,240	Plutonium-239, 240	N001	0.00741	pCi/L	U	F	0.0186	0.00841	valid	C	GEN
WOMPOC	SL	3/27/2017	17048387	07440-61-1	Uranium	N001	3.89	ug/L		F	0.067		J	C	GEN

Table 1. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
WOMPOC	SL	4/3/2017	17048396	AM-241	Americium-241	N001	-0.00113	pCi/L	U	F	0.0211	0.0101	valid	C	GEN
WOMPOC	SL	4/3/2017	17048396	PU-239,240	Plutonium-239, 240	N001	0.00312	pCi/L	U	F	0.0235	0.0106	valid	C	GEN
WOMPOC	SL	4/3/2017	17048396	07440-61-1	Uranium	N001	3.23	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	4/6/2017	17048423	AM-241	Americium-241	N001	0.00336	pCi/L	U	F	0.0315	0.00933	valid	C	GEN
WOMPOC	SL	4/6/2017	17048423	PU-239,240	Plutonium-239, 240	N001	-0.00919	pCi/L	U	F	0.0173	0.0127	valid	C	GEN
WOMPOC	SL	4/6/2017	17048423	07440-61-1	Uranium	N001	3	ug/L		F	0.067		valid	C	GEN

EXPLANATION

SAMPLE_ID

N00x = Sample was not filtered.
000x = Sample was filtered.

UNITS

mg/L; ppm = milligrams per liter
pCi/L = picocuries per liter
ug/L = micrograms per liter
C = degrees celsius
mS/cm = milliSiemens per centimeter
NTU = normal turbidity units
s.u. = standard pH units
uS/cm = microSiemens per centimeter
umhos/cm = microSiemens per centimeter

SAMPLE_TYPE

F = Field Sample
D = Duplicate

DATA_VALIDATION_QUALIFIERS

valid Result is valid.
F Low flow sampling method used.
G Possible grout contamination, pH > 9.
J Estimated value.
L Less than 3 bore volumes purged prior to sampling.
Q Qualitative result due to sampling technique
R Unusable result.
U Parameter analyzed for but was not detected.
X Location is undefined.
999 Validation not complete

LAB_QUALIFIERS

* Replicate analysis not within control limits.
+ Correlation coefficient for MSA < 0.995.
> Result above upper detection limit.
A TIC is a suspected aldol-condensation product.
B Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C Pesticide result confirmed by GC-MS.
D Analyte determined in diluted sample.
E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H Holding time expired, value suspect.
I Increased detection limit due to required dilution.
J Estimated
M GFAA duplicate injection precision not met.
N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
S Result determined by method of standard addition (MSA).
U Analytical result below detection limit.
W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

LOCATION_TYPE

SL SURFACE LOCATION
TS TREATMENT SYSTEM
WL WELL

LAB_CODE

GEN Gel Laboratories
STD Test America

COLLECTION_METHOD

G Grab
C Composite

Table 2. Water Sampling Events: Second Quarter CY 2017

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	TSS	Ticket	RIN #
WOMPOC	3/27/2017 11:02	4/3/2017 11:17	composite	F	No		X		X		PFR 873	17048387
B3OUTFLOW	4/5/2017 11:37	4/5/2017 11:37	grab	D	No		X				PFT 025	17048392
B3OUTFLOW	4/5/2017 11:37	4/5/2017 11:37	grab	F	No		X				PFT 020	17048392
GS10	4/5/2017 11:43	4/5/2017 11:43	grab	F	No		X				PFT 013	17048392
WALPOC	4/5/2017 12:00	4/5/2017 12:00	grab	F	No			X			PFT 017	17048392
GS08	4/5/2017 12:16	4/5/2017 12:16	grab	F	No		X				PFT 016	17048392
A4 POND	4/5/2017 12:26	4/5/2017 12:26	grab	F	No		X	X			PFT 026	17048392
B5INFLOW	4/5/2017 12:37	4/5/2017 12:37	grab	F	No		X				PFT 014	17048392
GS13	4/5/2017 12:53	4/5/2017 12:53	grab	F	No		X	X			PFT 018	17048392
A1EFF	4/5/2017 13:01	4/5/2017 13:01	grab	F	No		X	X			PFT 022	17048392
A2EFF	4/5/2017 13:07	4/5/2017 13:07	grab	F	No		X	X			PFT 023	17048392
A3EFF	4/5/2017 13:17	4/5/2017 13:17	grab	F	No		X	X			PFT 024	17048392
SW093	4/5/2017 13:50	4/5/2017 13:50	grab	F	No		X	X			PFT 012	17048392
SPOUT	4/5/2017 13:58	4/5/2017 13:58	grab	F	No		X	X			PFT 011	17048392
WALPOC	4/6/2017 8:48	4/6/2017 8:48	grab	F	No			X			PFT 096	17048396
WALPOC	3/13/2017 12:16	4/6/2017 8:52	composite	F	No		X		X		PFT 092	17048396
GS12	2/2/2017 11:38	4/6/2017 9:37	composite	F	No		X				PFT 100	17048397
GS31	3/30/2017 11:22	4/6/2017 10:37	composite	F	No		X		X		PFT 101	17048397
WOMPOC	4/3/2017 11:17	4/6/2017 11:11	composite	F	No		X		X		PFT 097	17048396
GS08	3/30/2017 12:27	4/13/2017 9:53	composite	F	No		X		X		PFT 257	17048407
B5INFLOW	3/27/2017 12:12	4/13/2017 11:11	composite	F	No		X				PFT 256	17048407
B3OUTFLOW	4/17/2017 11:26	4/17/2017 11:26	grab	F	No		X				PFT 300	17048415
GS10	4/17/2017 11:34	4/17/2017 11:34	grab	F	No		X				PFT 295	17048415
GS08	4/17/2017 12:03	4/17/2017 12:03	grab	F	No		X				PFT 294	17048415
A4 POND	4/17/2017 12:11	4/17/2017 12:11	grab	F	No		X	X			PFT 304	17048415
A3EFF	4/17/2017 12:24	4/17/2017 12:24	grab	D	No		X	X			PFT 306	17048415
A3EFF	4/17/2017 12:24	4/17/2017 12:24	grab	F	No		X	X			PFT 303	17048415
B5INFLOW	4/17/2017 12:41	4/17/2017 12:41	grab	F	No		X				PFT 293	17048415
A1EFF	4/17/2017 12:50	4/17/2017 12:50	grab	F	No		X	X			PFT 301	17048415
A2EFF	4/17/2017 12:58	4/17/2017 12:58	grab	F	No		X	X			PFT 302	17048415
GS13	4/17/2017 13:07	4/17/2017 13:07	grab	F	No		X	X			PFT 292	17048415
SW093	4/17/2017 13:23	4/17/2017 13:23	grab	D	No		X	X			PFT 305	17048415
SW093	4/17/2017 13:23	4/17/2017 13:23	grab	F	No		X	X			PFT 296	17048415
SPOUT	4/17/2017 13:27	4/17/2017 13:27	grab	F	No		X	X			PFT 298	17048415
WOMPOC	4/6/2017 11:11	4/19/2017 11:48	composite	F	No		X		X		PFT 550	17048423
GS13	4/24/2017 11:30	4/24/2017 11:30	grab	F	No		X	X			PFT 624	17048432
SPOUT	4/25/2017 11:24	4/25/2017 11:24	grab	F	No		X	X			PFT 630	17048432
GS12	4/6/2017 9:37	4/26/2017 11:42	composite	F	No		X				PFU 000	17048441
B3OUTFLOW	5/1/2017 13:15	5/1/2017 13:15	grab	F	No		X				PGU 920	17058464
GS10	5/1/2017 13:19	5/1/2017 13:19	grab	F	No		X				PGU 913	17058464
SW093	5/1/2017 13:30	5/1/2017 13:30	grab	F	No		X	X			PGU 912	17058464
SPOUT	5/1/2017 13:35	5/1/2017 13:35	grab	F	No		X	X			PGU 911	17058464
GS13	5/1/2017 13:54	5/1/2017 13:54	grab	F	No		X	X			PGU 918	17058464
A1EFF	5/1/2017 14:02	5/1/2017 14:02	grab	F	No		X	X			PGU 922	17058464
A2EFF	5/1/2017 14:06	5/1/2017 14:06	grab	F	No		X	X			PGU 923	17058464

Table 2. Water Sampling Events: Second Quarter CY 2017

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	TSS	Ticket	RIN #
B5INFLOW	5/1/2017 14:16	5/1/2017 14:16	grab	F	No		X				PGU 914	17058464
A3EFF	5/1/2017 14:22	5/1/2017 14:22	grab	F	No		X	X			PGU 924	17058464
GS08	5/1/2017 14:29	5/1/2017 14:29	grab	F	No		X				PGU 916	17058464
WALPOC	5/1/2017 14:36	5/1/2017 14:36	grab	F	No			X			PGU 917	17058464
GS11	5/1/2017 14:45	5/1/2017 14:45	grab	D	No		X	X			PGU 926	17058464
GS11	5/1/2017 14:45	5/1/2017 14:45	grab	F	No		X	X			PGU 925	17058464
10594	5/2/2017 12:50	5/2/2017 12:50	grab	F	No	X		X			PFU 637	17048460
10594	5/2/2017 12:50	5/2/2017 12:50	grab	F	Yes		X				PFU 637	17048460
10594	5/2/2017 12:50	5/2/2017 12:50	grab	D	No	X		X			PFU 638	17048460
10594	5/2/2017 12:50	5/2/2017 12:50	grab	D	Yes		X				PFU 638	17048460
00997	5/2/2017 13:50	5/2/2017 13:50	grab	F	No	X		X			PFU 634	17048460
00997	5/2/2017 13:50	5/2/2017 13:50	grab	F	Yes		X				PFU 634	17048460
WALPOC	4/6/2017 8:52	5/4/2017 12:53	composite	F	No		X		X		PGV 042	17058474
WALPOC	5/4/2017 12:57	5/4/2017 12:57	grab	F	No			X			PGV 042	17058474
GS08	4/13/2017 9:53	5/4/2017 13:15	composite	F	No		X		X		PGV 045	17058475
WOMPOC	4/19/2017 11:48	5/4/2017 14:12	composite	F	No		X		X		PGV 043	17058474
10304	5/8/2017 13:21	5/8/2017 13:21	grab	F	No	X		X			PGV 062	17058477
10304	5/8/2017 13:21	5/8/2017 13:21	grab	F	Yes		X				PGV 062	17058477
10304	5/8/2017 13:21	5/8/2017 13:21	grab	D	No	X		X			PGV 063	17058477
10304	5/8/2017 13:21	5/8/2017 13:21	grab	D	Yes		X				PGV 063	17058477
89104	5/8/2017 14:24	5/8/2017 14:24	grab	F	No	X					PGV 066	17058477
B5INFLOW	4/13/2017 11:11	5/11/2017 13:14	composite	F	No		X				PGV 258	17058492
GS12	4/26/2017 11:42	5/11/2017 13:36	composite	F	No		X				PGV 261	17058492
GS11	5/31/2016 13:12	5/11/2017 13:51	composite	F	No		X		X		PGV 259	17058492
WALPOC	5/11/2017 14:05	5/11/2017 14:05	grab	F	No			X			PGV 265	17058493
WALPOC	5/4/2017 12:53	5/11/2017 14:08	composite	F	No		X		X		PGV 264	17058493
GS11	5/11/2017 14:20	5/11/2017 14:20	grab	F	No			X			PGV 260	17058492
WOMPOC	5/4/2017 14:12	5/11/2017 15:11	composite	D	No		X		X		PGV 278	17058493
WOMPOC	5/4/2017 14:12	5/11/2017 15:11	composite	F	No		X		X		PGV 263	17058493
GS31	4/6/2017 10:37	5/11/2017 15:24	composite	F	No		X		X		PGV 262	17058492
SW093	5/16/2017 12:57	5/16/2017 12:57	grab	F	No		X	X			PGV 523	17058504
SPOUT	5/16/2017 13:03	5/16/2017 13:03	grab	F	No		X	X			PGV 519	17058504
GS13	5/16/2017 13:58	5/16/2017 13:58	grab	F	No		X	X			PGV 517	17058504
A1EFF	5/16/2017 14:07	5/16/2017 14:07	grab	F	No		X	X			PGV 521	17058504
A2EFF	5/16/2017 14:18	5/16/2017 14:18	grab	F	No		X	X			PGV 522	17058504
A3EFF	5/16/2017 14:26	5/16/2017 14:26	grab	F	No		X	X			PGV 520	17058504
B5INFLOW	5/16/2017 14:44	5/16/2017 14:44	grab	F	No		X				PGV 529	17058504
GS11	5/16/2017 14:55	5/16/2017 14:55	grab	D	No		X	X			PGV 524	17058504
GS11	5/16/2017 14:55	5/16/2017 14:55	grab	F	No		X	X			PGV 525	17058504
GS08	5/16/2017 14:59	5/16/2017 14:59	grab	F	No		X				PGV 530	17058504
B3OUTFLOW	5/16/2017 15:11	5/16/2017 15:11	grab	F	No		X				PGV 528	17058504
GS10	5/16/2017 15:15	5/16/2017 15:15	grab	F	No		X				PGV 527	17058504
GS08	5/4/2017 13:15	5/17/2017 13:53	composite	F	No		X		X		PGV 702	17058507
WALPOC	5/11/2017 14:08	5/17/2017 14:06	composite	F	No		X		X		PGV 704	17058508
WALPOC	5/17/2017 14:14	5/17/2017 14:14	grab	F	No			X			PGV 706	17058508
WALPOC	5/17/2017 14:14	5/17/2017 14:14	grab	D	No			X			PGV 707	17058508
WOMPOC	5/11/2017 15:10	5/17/2017 14:43	composite	F	No		X		X		PGV 705	17058508

Table 2. Water Sampling Events: Second Quarter CY 2017

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	TSS	Ticket	RIN #
GS11	5/19/2017 11:52	5/19/2017 11:52	grab	F	No			X			PGV 727	17058511
B5INFLOW	5/11/2017 13:14	5/19/2017 13:17	composite	F	No		X				PGV 728	17058511
GS11	5/11/2017 13:51	5/19/2017 13:37	composite	F	No		X		X		PGV 726	17058511
WALPOC	5/19/2017 13:55	5/19/2017 13:55	grab	F	No			X			PGV 733	17058512
WALPOC	5/17/2017 14:06	5/19/2017 13:57	composite	F	No		X		X		PGV 731	17058512
GS12	5/11/2017 13:36	5/19/2017 14:33	composite	F	No		X				PGV 725	17058511
WOMPOC	5/17/2017 14:43	5/19/2017 16:05	composite	D	No		X		X		PGV 781	17058512
WOMPOC	5/17/2017 14:43	5/19/2017 16:05	composite	F	No		X		X		PGV 732	17058512
GS08	5/17/2017 13:53	5/22/2017 10:56	composite	F	No		X		X		PGV 723	17058511
4087	5/22/2017 11:10	5/22/2017 11:10	grab	F	No	X		X			PGV 243	17058490
4087	5/22/2017 11:10	5/22/2017 11:10	grab	F	Yes		X				PGV 243	17058490
GS31	5/11/2017 15:24	5/22/2017 12:23	composite	F	No		X		X		PGV 724	17058511
WALPOC	5/23/2017 11:25	5/23/2017 11:25	grab	F	No			X			PGV 825	17058521
WALPOC	5/19/2017 13:57	5/23/2017 11:26	composite	F	No		X		X		PGV 823	17058521
B206989	5/23/2017 11:37	5/23/2017 11:37	grab	F	No	X		X			PGV 246	17058490
B206989	5/23/2017 11:37	5/23/2017 11:37	grab	F	Yes		X				PGV 246	17058490
GS11	5/19/2017 13:37	5/23/2017 11:43	composite	F	No		X		X		PGV 819	17058520
GS11	5/23/2017 11:44	5/23/2017 11:44	grab	F	No			X			PGV 820	17058520
GS12	5/19/2017 14:33	5/23/2017 11:59	composite	F	No		X				PGV 818	17058520
B5INFLOW	5/19/2017 13:17	5/23/2017 12:21	composite	F	No		X				PGV 821	17058520
WOMPOC	5/19/2017 16:05	5/23/2017 15:14	composite	F	No		X		X		PGV 824	17058521
11104	5/24/2017 12:10	5/24/2017 12:10	grab	F	No	X					PGV 248	17058490
11104	5/24/2017 12:10	5/24/2017 12:10	grab	F	Yes		X				PGV 248	17058490
B3OUTFLOW	5/31/2017 6:26	5/31/2017 6:26	grab	F	No		X				PHX 017	17068570
GS10	5/31/2017 6:39	5/31/2017 6:39	grab	F	No		X				PHX 010	17068570
SW093	5/31/2017 7:07	5/31/2017 7:07	grab	F	No		X	X			PHX 009	17068570
SPOUT	5/31/2017 7:10	5/31/2017 7:10	grab	F	No		X	X			PHX 008	17068570
GS13	5/31/2017 7:22	5/31/2017 7:22	grab	F	No		X	X			PHX 015	17068570
A1EFF	5/31/2017 7:33	5/31/2017 7:33	grab	F	No		X	X			PHX 018	17068570
A2EFF	5/31/2017 7:42	5/31/2017 7:42	grab	F	No		X	X			PHX 019	17068570
WALPOC	5/31/2017 8:00	5/31/2017 8:00	grab	F	No			X			PHW 876	17068567
WALPOC	5/31/2017 8:00	5/31/2017 8:00	grab	F	No			X			PHX 014	17068570
WALPOC	5/23/2017 11:26	5/31/2017 8:08	composite	D	No		X		X		PHW 877	17068567
WALPOC	5/23/2017 11:26	5/31/2017 8:08	composite	F	No		X		X		PHW 874	17068567
GS11	5/31/2017 8:19	5/31/2017 8:19	grab	F	No		X	X			PHX 021	17068570
GS08	5/22/2017 10:56	5/31/2017 8:29	composite	F	No		X		X		PHW 872	17068566
GS08	5/31/2017 8:32	5/31/2017 8:32	grab	F	No		X				PHX 013	17068570
GS12	5/23/2017 11:59	5/31/2017 9:00	composite	F	No		X				PHW 871	17068566
A3EFF	5/31/2017 9:03	5/31/2017 9:03	grab	F	No		X	X			PHX 024	17068570
A3EFF	5/31/2017 9:03	5/31/2017 9:03	grab	F	No		X	X			PHX 020	17068570
B5INFLOW	5/31/2017 9:11	5/31/2017 9:11	grab	F	No		X				PHX 011	17068570
WOMPOC	5/23/2017 15:14	5/31/2017 9:57	composite	F	No		X		X		PHW 875	17068567
B5INFLOW	5/23/2017 12:21	6/5/2017 13:40	composite	F	No		X				PHX 005	17068568
42505	6/7/2017 12:20	6/7/2017 12:20	grab	F	No	X					PHX 035	17068571
SW093	6/14/2017 9:22	6/14/2017 9:22	grab	D	No		X	X			PHX 091	17068578
SW093	6/14/2017 9:22	6/14/2017 9:22	grab	F	No		X	X			PHX 090	17068578
SPOUT	6/14/2017 9:30	6/14/2017 9:30	grab	F	No		X	X			PHX 086	17068578
GS13	6/14/2017 9:55AM	6/14/2017 9:55	grab	F	No		X	X			PHX 084	17068578

Table 2. Water Sampling Events: Second Quarter CY 2017

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	TSS	Ticket	RIN #
A1EFF	6/14/2017 10:14	6/14/2017 10:14	grab	F	No		X	X			PHX 088	17068578
A2EFF	6/14/2017 10:31	6/14/2017 10:31	grab	F	No		X	X			PHX 089	17068578
A3EFF	6/14/2017 11:03	6/14/2017 11:03	grab	F	No		X	X			PHX 087	17068578
GS11	6/14/2017 11:13	6/14/2017 11:13	grab	F	No		X	X			PHX 092	17068578
GS08	6/14/2017 11:17	6/14/2017 11:17	grab	F	No		X				PHX 097	17068578
B5INFLOW	6/14/2017 11:23	6/14/2017 11:23	grab	F	No		X				PHX 096	17068578
B3OUTFLOW	6/14/2017 12:04	6/14/2017 12:04	grab	F	No		X				PHX 095	17068578
GS10	6/14/2017 12:09	6/14/2017 12:09	grab	F	No		X				PHX 094	17068578
GS08	5/31/2017 8:29	6/15/2017 12:44	composite	F	No		X		X		PHX 350	17068593
WALPOC	5/31/2017 8:08	6/21/2017 11:07	composite	F	No		X		X		PHX 445	17068601
WOMPOC	5/31/2017 9:57	6/21/2017 12:26	composite	F	No		X		X		PHX 446	17068601
GS31	5/22/2017 12:23	6/28/2017 10:17	composite	F	No		X		X		PHX 622	17068614
GS11	5/23/2017 11:43	6/28/2017 11:25	composite	F	No		X		X		PHX 620	17068614
GS12	5/31/2017 9:00	6/28/2017 11:44	composite	F	No		X				PHX 621	17068614
B5INFLOW	6/5/2017 13:40	6/28/2017 12:32	composite	F	No		X				PHX 619	17068614
SPOUT	6/29/2017 10:31	6/29/2017 10:31	grab	F	No		X	X			PHX 630	17068616
SW093	6/29/2017 10:35	6/29/2017 10:35	grab	F	No		X	X			PHX 631	17068616
GS13	6/29/2017 10:48	6/29/2017 10:48	grab	F	No		X	X			PHX 637	17068616
GS10	6/29/2017 12:04	6/29/2017 12:04	grab	F	No		X				PHX 632	17068616