

**Rocky Flats, Colorado, Site**

**Surface Water Configuration  
Adaptive Management Plan  
Quarterly Report**

**Third Quarter Calendar Year 2012**

**October 2012**



U.S. DEPARTMENT OF  
**ENERGY**

Legacy  
Management

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## Abbreviations

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

## 1.0 Introduction

The Proposed Action assessed in the *Rocky Flats Site, Colorado, Surface Water Configuration Environmental Assessment and Finding of No Significant Impact* (DOE/EA-1747) (DOE 2011a) (EA), dated May 2011, is to breach the remaining retention pond dams at the Rocky Flats Site (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 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 and 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 to provide additional information. The resulting *Surface Water Configuration Adaptive Management Plan for the Rocky Flats, Colorado, Site*, (DOE 2011b) (AMP) reflects DOE's long-term commitment to implementing the activities that the AMP describes. The AMP group is composed of neighboring community representatives and other interested stakeholders.

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 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 third quarter of calendar year (CY) 2012 is provided according to Section 5.0, "Reporting," in the AMP. Section 3.0 of this document provides the third quarter data summary tables, which include all validated analytical data available as of September 30, 2012. 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 Site Operations Guide* (DOE 2012) (RFSOG) and RFSOG Attachment F4, "Non-RFLMA Monitoring." Analytical data for the following AMP monitoring objectives are included in this report:

- 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 N in Walnut Creek (Item 8, AMP Table 2)

## 2.0 AMP Highlights: Third Quarter CY 2012

- An informal e-mail was transmitted to the AMP group on July 24, 2012, providing notification of individual analytical results from a Point of Evaluation (POE) that were above the applicable *Rocky Flats Legacy Management Agreement* (DOE 2007) (RFLMA) surface-water standard (RFLMA Attachment 2, Table 1). The notification was for POE GS10 plutonium-239/240 (Pu) results. Pu at GS10 was determined to constitute a reportable condition based on the 12-month rolling average for samples through May 31, 2012.
- DOE held an AMP group meeting to discuss the reportable condition for Pu at GS10 on August 23, 2012. A reportable condition for americium-241 (Am) at GS10 began in 2011, and the Am evaluation plan included consideration of Pu because Pu and Am have similar geochemistry and because Am is present in weapons grade Pu formerly used at the Site.
- One informal e-mail was transmitted to AMP participants that provided notification of Geospatial Environmental Mapping System postings of validated analytical results for the downstream-most points of compliance.
- During the quarter, 37 samples were collected in support of AMP monitoring objectives.

## 3.0 Analytical Data: Third Quarter CY 2012

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

Table 2, “Water Sampling Events: Third Quarter CY 2012,” is available at the end of this report.

## 4.0 References

DOE (U.S. Department of Energy), 2007. *Rocky Flats Legacy Management Agreement*, Rocky Flats Environmental Technology Site, Golden, Colorado, March 14.

DOE (U.S. Department of Energy), 2011a. *Rocky Flats Site, Colorado, Surface Water Configuration Environmental Assessment*, DOE/EA-1747, LMS/RFS/S06335, May.

DOE (U.S. Department of Energy), 2011b. *Surface Water Configuration Adaptive Management Plan for the Rocky Flats, Colorado, Site*, LMS/RFS/S07698, June.

DOE (U.S. Department of Energy), 2012. *Rocky Flats Site Operations Guide*, Revision 5.0, LMS/RFS/S03037-5.0, Office of Legacy Management, Westminster, Colorado, April.





















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
GS13	SL	4/13/2012	12054580	07440-61-1	Uranium	N002	16.4	ug/L		F	0.067		valid	C	GEN
GS13	SL	5/8/2012	12054539	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	26	mg/L	B	F	0.19		valid	G	STD
GS13	SL	5/9/2012	12054553	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	27	mg/L		F	0.095		valid	G	STD
GS13	SL	5/9/2012	12054553	07440-61-1	Uranium	N002	17	ug/L		F	0.1		valid	G	STD
GS13	SL	5/23/2012	12054581	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	19	mg/L		F	0.095		valid	G	STD
GS13	SL	5/23/2012	12054581	07440-61-1	Uranium	N002	21	ug/L		F	0.05		valid	G	STD
GS13	SL	6/7/2012	12064617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	7.2	mg/L		F	0.019		valid	G	STD
GS13	SL	6/7/2012	12064617	07440-61-1	Uranium	N001	27	ug/L		F	0.05		valid	G	STD
SPOUT	TS	5/8/2012	12054539	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	410	mg/L	B	F	1.9		valid	G	STD
SPOUT	TS	5/8/2012	12054539	07440-61-1	Uranium	N002	49	ug/L		F	0.05		valid	G	STD
SPOUT	TS	5/9/2012	12054553	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	430	mg/L		F	0.95		valid	G	STD
SPOUT	TS	5/9/2012	12054553	07440-61-1	Uranium	N002	51	ug/L		F	0.1		valid	G	STD
SPOUT	TS	5/23/2012	12054581	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	2.2	mg/L		F	0.019		valid	G	STD
SPOUT	TS	5/23/2012	12054581	07440-61-1	Uranium	N002	6	ug/L		F	0.05		valid	G	STD
SPOUT	TS	6/7/2012	12064617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	340	mg/L		F	1.9		valid	G	STD
SPOUT	TS	6/7/2012	12064617	07440-61-1	Uranium	N001	65	ug/L		F	0.05		valid	G	STD
SPOUT	TS	6/20/2012	12064673	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	340	mg/L		F	1.9		valid	G	STD
SPOUT	TS	6/20/2012	12064673	07440-61-1	Uranium	N001	67	ug/L		F	0.05		valid	G	STD
SW093	SL	4/13/2012	12054580	07440-61-1	Uranium	N002	7.59	ug/L		F	0.067		valid	C	GEN
SW093	SL	5/9/2012	12054553	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	1	mg/L		F	0.019		valid	G	STD
SW093	SL	5/9/2012	12054553	07440-61-1	Uranium	N002	5.3	ug/L		F	0.1		valid	G	STD
SW093	SL	5/21/2012	12064674	07440-61-1	Uranium	N001	9.54	ug/L		F	0.067		valid	C	GEN
SW093	SL	5/23/2012	12054581	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	370	mg/L		F	0.95		valid	G	STD
SW093	SL	5/23/2012	12054581	07440-61-1	Uranium	N002	53	ug/L		F	0.05		valid	G	STD
SW093	SL	6/7/2012	12064617	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	6.7	mg/L		F	0.019		valid	G	STD
SW093	SL	6/7/2012	12064617	07440-61-1	Uranium	N001	11	ug/L		F	0.05		valid	G	STD
SW093	SL	6/20/2012	12064673	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	6.7	mg/L		F	0.019		valid	G	STD
SW093	SL	6/20/2012	12064673	07440-61-1	Uranium	N001	12	ug/L		F	0.05		valid	G	STD
SW093	SL	6/20/2012	12074728	07440-61-1	Uranium	N002	9.03	ug/L		F	0.067		valid	C	GEN
WOMPOC	SL	4/13/2012	12054579	AM-241	Americium-241	N002	0.00113	pCi/L	U	F	0.0205	0.00497	valid	C	GEN
WOMPOC	SL	4/13/2012	12054579	PU-239,240	Plutonium-239, 240	N002	-0.00106	pCi/L	U	F	0.011	0.00359	valid	C	GEN
WOMPOC	SL	4/13/2012	12054579	07440-61-1	Uranium	N002	4.09	ug/L		F	0.067		valid	C	GEN

**EXPLANATION**

**SAMPLE\_ID**

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

**WATER\_UNIT\_OF\_MEASURE**

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 Arochlors 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: Third Quarter CY 2012

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info		
	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	SVOC	TSS	Ticket	RIN #
GS31	2/16/12 13:27	4/12/12 9:25	composite	F	No		X		X			KFS 603	12044484
B5 POND	3/1/12 9:00	3/1/12 9:00	grab	F	No		X					KEY 292	12034404
B5INFLOW	3/6/12 12:51	3/23/12 8:40	composite	F	No				X			KGT 917	12054552
GS11	3/14/12 11:17	4/13/12 9:57	composite	F	No		X		X			KFS 604	12044484
B5 POND	3/15/12 8:45	3/15/12 8:45	grab	F	No		X					KEQ 052	12034417
WOMPOC	3/21/12 9:04	4/13/12 10:46	composite	F	No		X		X			KFS 594	12044482
GS10	3/21/12 9:37	4/4/12 10:20	composite	F	Yes				X			KGT 918	12054552
WALPOC	3/21/12 10:06	4/13/12 10:08	composite	F	No		X		X			KFS 593	12044482
GS13	3/23/12 8:23	4/13/12 9:32	composite	F	No		X					KFS 598	12044483
B5INFLOW	3/23/12 8:40	4/13/12 9:48	composite	F	No		X					KFS 606	12044484
B5INFLOW	3/23/12 8:40	4/13/12 9:48	composite	F	No				X			KGT 919	12054552
B5 POND	3/28/12 9:00	3/28/12 9:00	grab	F	No		X					KFQ 769	12044451
GS01	3/29/12 9:09	6/6/12 11:43	composite	F	No		X		X			KHX 107	12064627
SW093	3/29/12 9:35	4/13/12 9:24	composite	F	No		X		X			KFS 596	12044483
GS10	4/4/12 10:20	4/25/12 9:31	composite	F	No		X		X			KFT 025	12044508
GS03	4/4/12 11:49	6/6/12 11:20	composite	F	No		X		X			KHX 108	12064627
GS12	4/5/12 11:42	5/3/12 9:23	composite	F	No		X					KGT 933	12054553
SPOUT	4/11/12 9:00	4/11/12 9:00	grab	F	No		X	X				KFS 580	12044481
SW093	4/11/12 9:05	4/11/12 9:05	grab	F	No		X	X				KFS 581	12044481
GS13	4/11/12 9:10	4/11/12 9:10	grab	F	No		X	X				KFS 582	12044481
A1EFF	4/11/12 9:15	4/11/12 9:15	grab	F	No		X	X				KFS 589	12044481
A2EFF	4/11/12 9:25	4/11/12 9:25	grab	F	No		X	X				KFS 590	12044481
A3EFF	4/11/12 9:40	4/11/12 9:40	grab	F	No		X	X				KFS 592	12044481
A4 POND	4/11/12 10:00	4/11/12 10:00	grab	F	No		X	X				KFS 583	12044481
B5INFLOW	4/11/12 10:20	4/11/12 10:20	grab	F	No		X					KFS 584	12044481
B3OUTFLOW	4/11/12 10:45	4/11/12 10:45	grab	F	No		X					KFS 585	12044481
GS10	4/11/12 10:50	4/11/12 10:50	grab	F	No		X					KFS 586	12044481
SW093	4/13/12 9:24	5/21/12 12:49	composite	F	No		X		X			KGU 264	12054580
GS13	4/13/12 9:32	5/21/12 13:00	composite	F	No		X					KGU 265	12054580
B5INFLOW	4/13/12 9:48	5/21/12 12:17	composite	F	No				X			KHV 636	12064603
B5INFLOW	4/13/12 9:48	5/21/12 12:17	composite	F	No		X					KHW 253	12064617
GS11	4/13/12 9:50	4/13/12 9:50	grab	F	No			X				KFS 605	12044484
WALPOC	4/13/12 10:00	4/13/12 10:00	grab	F	No			X				KFS 595	12044482
WOMPOC	4/13/12 10:46	5/21/12 11:21	composite	F	No		X		X			KGU 263	12054579
42505	4/19/12 13:45	4/19/12 13:45	grab	F	No	X						KFS 535	12044478
SPOUT	4/25/12 8:00	4/25/12 8:00	grab	F	No		X	X				KFT 036	12044510
SW093	4/25/12 8:10	4/25/12 8:10	grab	F	No		X	X				KFT 037	12044510
GS13	4/25/12 8:15	4/25/12 8:15	grab	F	No		X	X				KFT 038	12044510
A1EFF	4/25/12 8:20	4/25/12 8:20	grab	F	No		X	X				KFT 045	12044510
A2EFF	4/25/12 8:30	4/25/12 8:30	grab	F	No		X	X				KFT 046	12044510
A3EFF	4/25/12 8:40	4/25/12 8:40	grab	F	No		X	X				KFT 048	12044510
A4 POND	4/25/12 8:50	4/25/12 8:50	grab	F	No		X	X				KFT 039	12044510
B5INFLOW	4/25/12 9:05	4/25/12 9:05	grab	F	No		X					KFT 040	12044510
B3OUTFLOW	4/25/12 9:15	4/25/12 9:15	grab	F	No		X					KFT 041	12044510
GS10	4/25/12 9:20	4/25/12 9:20	grab	F	No		X					KFT 042	12044510
GS10	4/25/12 9:31	5/9/12 13:36	composite	F	No		X		X			KGT 916	12054552
GS10	4/25/12 9:31	5/9/12 13:36	composite	F	Yes				X			KHV 635	12064603
89104	4/25/12 16:00	4/25/12 16:00	grab	F	No	X						KFS 756	12044495
00997	5/2/12 13:55	5/2/12 13:55	grab	F	No	X		X				KFT 125	12044512



Table 2. Water Sampling Events: Third Quarter CY 2012

Location Code	Sampling Dates		Sample Info			Analytes						Sample Tracking Info	
	Start	End	Collection Method	Type	Filtered	VOC	D	Nitrate	Pu/Am	SVOC	TSS	Ticket	RIN #
00997	5/2/12 13:55	5/2/12 13:55	grab	F	Yes		X					KFT 125	12044512
GS12	5/3/12 9:23	6/7/12 9:23	composite	F	No		X					KHX 120	12064629
SPOUT	5/8/12 11:50	5/8/12 11:50	grab	F	No		X	X				KGT 619	12054539
GS13	5/8/12 14:20	5/8/12 14:20	grab	F	No			X				KGT 621	12054539
SPOUT	5/9/12 8:00	5/9/12 8:00	grab	F	No		X	X				KGT 921	12054553
SW093	5/9/12 8:10	5/9/12 8:10	grab	F	No		X	X				KGT 922	12054553
GS13	5/9/12 8:15	5/9/12 8:15	grab	F	No		X	X				KGT 923	12054553
A1EFF	5/9/12 8:20	5/9/12 8:20	grab	F	No		X	X				KGT 929	12054553
A2EFF	5/9/12 8:30	5/9/12 8:30	grab	F	No		X	X				KGT 931	12054553
A3EFF	5/9/12 8:40	5/9/12 8:40	grab	F	No		X	X				KGT 932	12054553
A4 POND	5/9/12 8:45	5/9/12 8:45	grab	F	No		X	X				KGT 924	12054553
B5INFLOW	5/9/12 9:10	5/9/12 9:10	grab	F	No		X					KGT 925	12054553
B3OUTFLOW	5/9/12 9:20	5/9/12 9:20	grab	F	No		X					KGT 926	12054553
GS10	5/9/12 9:30	5/9/12 9:30	grab	F	No		X					KGT 927	12054553
GS10	5/9/12 13:36	5/23/12 9:37	composite	F	No		X		X			KGU 261	12054579
10594	5/10/12 12:25	5/10/12 12:25	grab	F	No	X		X				KGT 602	12054539
10594	5/10/12 12:25	5/10/12 12:25	grab	F	Yes		X					KGT 602	12054539
B206989	5/16/12 14:00	5/16/12 14:00	grab	F	No	X		X				KGT 905	12054549
B206989	5/16/12 14:00	5/16/12 14:00	grab	F	Yes		X					KGT 905	12054549
4087	5/16/12 14:40	5/16/12 14:40	grab	F	No	X		X				KGT 899	12054549
4087	5/16/12 14:40	5/16/12 14:40	grab	F	Yes		X					KGT 899	12054549
SW093	5/21/12 12:49	6/20/12 11:30	composite	F	No		X		X			KHQ 760	12064674
GS10	5/22/12 11:41	5/28/12 9:41	composite	F	No		X		X			KGU 848	12054596
11104	5/23/12 8:00	5/23/12 8:00	grab	F	No	X						KGU 162	12054564
11104	5/23/12 8:00	5/23/12 8:00	grab	F	Yes		X					KGU 162	12054564
SPOUT	5/23/12 8:00	5/23/12 8:00	grab	F	No		X	X				KGU 267	12054581
SW093	5/23/12 8:05	5/23/12 8:05	grab	F	No		X	X				KGU 268	12054581
GS13	5/23/12 8:10	5/23/12 8:10	grab	F	No		X	X				KGU 269	12054581
A1EFF	5/23/12 8:15	5/23/12 8:15	grab	F	No		X	X				KGU 275	12054581
A2EFF	5/23/12 8:25	5/23/12 8:25	grab	F	No		X	X				KGU 277	12054581
A4 POND	5/23/12 8:30	5/23/12 8:30	grab	F	No		X	X				KGU 270	12054581
B5INFLOW	5/23/12 8:40	5/23/12 8:40	grab	F	No		X					KGU 271	12054581
B3OUTFLOW	5/23/12 8:50	5/23/12 8:50	grab	F	No		X					KGU 272	12054581
GS10	5/23/12 9:00	5/23/12 9:00	grab	F	No		X					KGU 273	12054581
GS10	5/23/12 9:37	6/14/12 10:06	composite	F	No		X		X			KHY 778	12064634
10304	5/30/12 13:05	5/30/12 13:05	grab	F	No	X		X				KGU 456	12054562
10304	5/30/12 13:05	5/30/12 13:05	grab	F	Yes		X					KGU 456	12054562
10304	5/30/12 13:05	5/30/12 13:05	grab	D	No	X		X				KGU 457	12054562
10304	5/30/12 13:05	5/30/12 13:05	grab	D	Yes		X					KGU 457	12054562
00193	5/31/12 12:35	5/31/12 12:35	grab	F	No	X						KGU 458	12054562
00193	5/31/12 12:35	5/31/12 12:35	grab	F	Yes		X					KGU 458	12054562
SPOUT	6/7/12 7:45	6/7/12 7:45	grab	F	No		X	X				KHW 246	12064617
SW093	6/7/12 7:50	6/7/12 7:50	grab	F	No		X	X				KHW 247	12064617
GS13	6/7/12 8:00	6/7/12 8:00	grab	F	No		X	X				KHW 248	12064617
A4 POND	6/7/12 8:15	6/7/12 8:15	grab	F	No		X	X				KHW 249	12064617
B5 POND	6/7/12 8:20	6/7/12 8:20	grab	F	No		X					KHW 255	12064617
GS10	6/7/12 8:50	6/7/12 8:50	grab	F	No		X					KHW 252	12064617
SPOUT	6/20/12 9:00	6/20/12 9:00	grab	F	No		X	X				KHQ 753	12064673
SW093	6/20/12 9:05	6/20/12 9:05	grab	F	No		X	X				KHQ 754	12064673
A4 POND	6/20/12 9:20	6/20/12 9:20	grab	F	No		X	X				KHQ 756	12064673
GS10	6/20/12 9:35	6/20/12 9:35	grab	F	No		X					KHQ 757	12064673

Table 2. Water Sampling Events: Third Quarter CY 2012

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info	
	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	SVOC	TSS	Ticket

**EXPLANATION**

**Sample Info: Type**

F = Field Sample  
D = Duplicate

**Analytes**

VOC = volatile organic compounds  
U = uranium  
Nitrate = nitrate + nitrite as N  
Pu/Am = plutonium-239,240 and americium-241  
SVOC = semi-volatile organic compounds  
TSS = total suspended solids

**Sample Tracking Info: Ticket**

- tracking identifier

**Sample Tracking Info: RIN#**

- lab requisition number

**Sample Tracking Info: COC Date**

- Chain of Custody date