

ROCKY FLATS STEWARDSHIP COUNCIL

P.O. Box 17670
Boulder, CO 80308-0670
www.rockyflatssc.org

(303) 412-1200
(303) 600-7773 (f)

Jefferson County ~ Boulder County ~ City and County of Broomfield ~ City of Arvada ~ City of Boulder
City of Golden ~ City of Northglenn ~ City of Thornton ~ City of Westminster ~ Town of Superior
League of Women Voters ~ Rocky Flats Cold War Museum ~ Rocky Flats Homesteaders

Board of Directors Meeting – Agenda

Monday, February 5, 2018, 8:30 – 11:45 AM

**Rocky Mountain Metropolitan Airport, Terminal Building, Mount Evans Room
11755 Airport Way, Broomfield, Colorado**

- 8:30 AM Convene/Introductions/Agenda Review
- 8:35 AM Chairman’s Review of January 8th Executive Committee meeting
- 8:40 AM Public Comment: Comments are limited to the Consent Agenda and non-agenda items
- 8:50 AM Business Items (briefing memo attached)
1. Bylaws Amendments
Action Item: Vote on the Amendments
 2. Ratify Non-Governmental Member Appointments from October 30, 2017, meeting.
 3. Election of Stewardship Council Officers for 2018
Action Item: Elect Officers
 4. 2018 Meeting Schedule and Notice Provisions Resolution
Action item: Adopt Resolution
 5. Consent Agenda: Approval of meeting minutes checks
 6. Executive Director’s Report
- 9:15 AM Host DOE Quarterly Meeting (briefing memo attached)
- o DOE will brief on site activities for the third quarter of 2017 (July – September).

- Activities include surface water monitoring, groundwater monitoring, ecological monitoring, and site operations (inspections, maintenance, etc.).

Public Comment on DOE's Quarterly Report: Comments must focus on DOE's Quarterly Report.

- 10:30 AM CDPHE Briefing – Myths and Misunderstandings (briefing memo attached)
- CDPHE staff has been compiling a list of commonly-held factual inaccuracies about Rocky Flats.
 - The agency has requested time to address some of the issues, calling the briefing “Myths and Misunderstandings.”
 - The briefing memo contains a sampling of the issues they will discuss.

Public Comment on CDPHE Briefing: Comments must focus on CDPHE's briefing.

- 11:30 AM Board Roundtable – Big Picture/Additional Questions/Issue Identification
Adjourn

Upcoming Meetings: All dates are proposed and will be set at this meeting

April 2
June 4
September 17
October 29

Business Items

- Cover memo
- Bylaws amendments
- Bylaws resolution
- 2017 meeting dates resolution and notice provisions
- October 30, 2017, draft board meeting minutes
- List of Stewardship Council checks

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MEMORANDUM

TO: Board
FROM: David Abelson
SUBJECT: Business Items
DATE: January 23, 2018

As provided in the agenda, there are a number of actions the Board must take.

1. Discuss and vote on the proposed bylaws amendments
2. Ratify the non-governmental appointments from the October 30, 2017, meeting.
3. Elect Stewardship Council officers for 2018
4. Adopt the 2018 meeting schedule resolution
5. Consent Agenda -- Approve the minutes and checks

Each item, with the exception of the consent agenda, is discussed below.

Proposed Bylaws Amendments

The Board will consider two amendments to the bylaws. The Board discussed both amendments at the October 30th meeting and agreed to advance both for further discussion and a vote at this meeting. The language is the same that the Board reviewed at the October meeting, with the exception of the "Members' Terms." The proposed amendments (below) reflect the Board's discussion at that meeting.

Process: The bylaws provide that any amendments must be considered at two meetings – in this case October 30, 2017, and February 5, 2018.

Proposed Amendment #1: Expand the list of potential ex-officio non-voting Board members and change the section title from "Ex-Officio" to "Non-Voting" Members of the Board

Article II, Section F. ~~Non-Voting-Ex-Officio Members of the Board.~~ At its discretion, the Board may appoint ex-officio members to the Board from federal and state agencies, including the U.S. Department of Energy, the Environmental Protection Agency, the Colorado Department of Public Health and Environment, and/or the U.S. Fish and Wildlife Service. Ex-officio members shall not be a Party to the IGA but shall have the ability to designate a non-voting representative to the Board of Directors. At its discretion, the Board may also appoint former elected officials who previously served on the Stewardship Council Board of Directors. These non-voting member appointments shall be reviewed annually, and may be renewed for additional one-year terms by an affirmative vote of the Board.

If adopted this change will also require a small change to Article II, Section A (the reference to “ex-officio” would be changed to “non-voting”).

Proposed Amendment #2: Staggering the terms of the non-governmental members

Article XI. D. Members’ Terms. Members’ terms shall be limited to two years at which time such ~~Members~~ Members must reapply for membership to the Stewardship Council, except as stated herein. In preparation for staggering terms, starting at the February 2018 meeting, two of the Member terms shall be for two years, and the remaining Member terms being for one year. Thereafter, commencing February 2019, all Member terms shall be for two years.

The Amendments and Resolution are attached.

ACTION ITEM: Vote on the amendment

Ratify the Non-Governmental Appointees

At the October 30, 2017, meeting, the member governments agreed to appoint the following groups and individual to the Board of Directors.

- League of Women Voters (2-year term)
- Rocky Flats Homesteaders (2-year term)
- Rocky Flats Cold War Museum (1-year term)
- Kim Griffiths (1-year term)

Assuming the Board adopts the proposed bylaws amendment staggering community member terms, ratification of this decision will follow that vote. Importantly, because the appointments are made by the governments, ratification is not an official vote of the Board of Directors. Terms start at the February 2018 meeting.

Election of officers

In accordance with the Stewardship Council bylaws, “the Chair, Vice Chair, and Secretary/Treasurer shall be elected annually by the Board of Directors.” The terms commence at this meeting, and there are no limitations as to the number of terms one can serve. The following people have expressed interest in serving:

- Joyce Downing (Northglenn) – Chair
- Chris Hanson (Superior) – Vice Chair
- Jeannette Hillery (League of Women Voters) – Secretary/Treasurer

If you are interested in serving, please let me know. Additional names can be added for consideration at the meeting.

ACTION ITEM: Elect the officers for 2018

Resolution Re: 2018 Meeting Schedule and Notice Provisions

Each year, the Board is required to adopt a resolution establishing the meeting dates for the year. Because of the Jewish New Year, the executive committee, at my request, is proposing to move the

September meeting to the third Monday of the month. Otherwise, the proposed meeting calendar tracks the schedule the Board has followed for a number of years.

February 5 (first Monday of the month)

April 2 (first Monday of the month)

June 4 (first Monday of the month)

September 17 (third Monday of the month)

October 29 (fourth Monday of the month)

The attached notice provisions track the Stewardship Council's bylaws.

ACTION ITEM: Adopt the resolution

**THIRD AMENDMENT TO THE BYLAWS
OF THE BOARD OF DIRECTORS
OF THE ROCKY FLATS STEWARDSHIP COUNCIL**

This THIRD AMENDMENT TO THE BYLAWS OF THE BOARD OF DIRECTORS OF THE ROCKY FLATS STEWARDSHIP COUNCIL (the "Amendment") is made and effective as of the ____ day of February, 2018 by the Board of Directors of the Rocky Flats Stewardship Council (the "Stewardship Council").

ARTICLE II, Board of Directors, Section F. is hereby revised in its entirety to read as follows:

F. Non-Voting Ex-Officio Members of the Board. At its discretion, the Board may appoint ex-officio members to the Board from federal and state agencies, including the U.S. Department of Energy, the Environmental Protection Agency, the Colorado Department of Public Health and Environment, and/or the U.S. Fish and Wildlife Service. Ex-officio members shall not be a Party to the IGA but shall have the ability to designate a non-voting representative to the Board of Directors. *At its discretion, the Board may also appoint former elected officials who previously served on the Stewardship Council Board of Directors. These non-voting member appointments shall be reviewed annually, and may be renewed for additional one-year terms by an affirmative vote of the Board.*

ARTICLE II, Board of Directors, Section A., is hereby revised in the first sentence to read as follows:

A. Number, Qualifications and Term of Office. The business and affairs of the Stewardship Council shall be managed by a Board of Directors not to exceed fourteen (14) members, not including *non-voting ex-officio* members.

ARTICLE IX, Miscellaneous, Section D. is hereby revised as follows:

D. Members' Terms. Members' terms shall be limited to two years at which time such ~~M~~members must reapply for membership to the Stewardship Council, *except as stated herein. In preparation for staggering terms, starting at the February 2018 meeting, two of the Member terms shall be for two years, and the remaining Member terms being for one year. Thereafter, commencing February 2019, all Member terms shall be for two years.*

ROCKY FLATS STEWARDSHIP COUNCIL

Chair, Board of Directors

ATTEST:

Secretary

First Reading: October 30, 2017
Second Reading: February 5, 2018

DRAFT

**RESOLUTION
OF THE
BOARD OF DIRECTORS
OF THE
ROCKY FLATS STEWARDSHIP COUNCIL**

Regarding Adoption of the Third Amendment to the Bylaws

WHEREAS, pursuant to an Intergovernmental Agreement dated February 13, 2006 (the “IGA”), the Rocky Flats Stewardship Council (“Stewardship Council”) was established; and

WHEREAS, the Stewardship Council was created to allow local governments to work together on the continuing local oversight of the activities occurring on the Rocky Flats site to ensure that government and community interests are met with regards to long term stewardship of residual contamination and refuge management; and

WHEREAS, the Board of Directors of the Stewardship Council (the “Board”) has a duty to perform certain obligations in order to assure the efficient operation of the Stewardship Council; and

WHEREAS, the Stewardship Council adopted Bylaws effective March 6, 2006, which were thereafter amended by First Amendment effective November 5, 2007, and by Second Amendment effective April 2, 2012 (collectively, the “Bylaws”); and

WHEREAS, the IGA provides for Members of the Stewardship Council, selected pursuant to procedures established by the Stewardship Council in its Bylaws; and

WHEREAS, the Board desires to amend its Bylaws to expand the list of eligible non-voting Board members, and to provide for staggered terms; and

WHEREAS, in accordance with the provisions of Art. IX of the Bylaws, after consideration at two meetings of the Board, the Board may amend, supplement or repeal its Bylaws or adopt new Bylaws, and all such changes shall affect and be binding upon the Stewardship Council.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ROCKY FLATS STEWARDSHIP COUNCIL THAT:

The Board by a vote of ____ to ____, hereby adopts the Third Amendment to the Bylaws of the Board of Directors of the Rocky Flats Stewardship Council, attached as an Exhibit to this Resolution.

Done and adopted this ____ day of _____, 2018 by the Board of Directors of the Rocky Flats Stewardship Council.

ROCKY FLATS STEWARDSHIP COUNCIL

Chair, Board of Directors

ATTEST:

Secretary

DRAFT

**RESOLUTION
OF THE
BOARD OF DIRECTORS
OF
ROCKY FLATS STEWARDSHIP COUNCIL**

regarding

2018 MEETING SCHEDULE AND NOTICE PROVISIONS

WHEREAS, pursuant to an Intergovernmental Agreement dated as of February 13, 2006, and as amended thereafter, (the “IGA”), the Rocky Flats Stewardship Council (“Stewardship Council”) was established; and

WHEREAS, the Stewardship Council was created to allow local governments to work together on the continuing local oversight of the activities occurring on the Rocky Flats site to ensure that government and community interests are met with regards to long term stewardship of residual contamination and refuge management; and

WHEREAS, the Board of Directors of the Stewardship Council has a duty to perform certain obligations in order to assure the efficient operation of the Stewardship Council; and

WHEREAS, on March 6, 2006, the Board of Directors of the Stewardship Council adopted Bylaws regarding the operations of the Stewardship Council, governing, *inter alia*, meeting and notice requirements; and

WHEREAS, § 24-6-402, C.R.S., of the Colorado Sunshine Law, specifies the duty of the Board of Directors at its first regular meeting of the calendar year to designate a public posting place within the boundaries of the Stewardship Council for notices of meetings, in addition to any other means of notice; and

WHEREAS, pursuant to its Bylaws and Colorado laws, the Stewardship Council desires to establish its regular meeting schedule and location, and to designate its public posting place(s) for 2018.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ROCKY FLATS STEWARDSHIP COUNCIL THAT:

1. Meeting Schedule/Location. The Board of Directors determines to hold regular meetings the **first Monday of February, April and June, the third Monday of September, and the fourth Monday of October at 8:30 AM** at the Rocky Mountain Metropolitan Airport Terminal Building, 11755 Airport Way, Broomfield, Colorado; and to hold special meetings as may be necessary, in accordance with the Bylaws of the Stewardship Council.

2. Regular Meeting Notice. The Board of Directors determines to annually post its regular meeting schedule at the Clerk and Recorder’s office of the following counties: Jefferson, Boulder, Broomfield, Adams and Weld; and at the City or Town Clerk’s Office of the following cities and/or towns: Arvada, Boulder, Broomfield, Westminster, Golden, Superior, Thornton, and Northglenn, for posting in a public place. In addition, the Board shall post its regular meeting schedule on the website established for the Stewardship Council. These notices shall remain posted throughout the year. At least seven (7) days advance notice of the regular meeting time, place and date shall be provided to the

directors and alternate directors, and to those members of the public who so request. The general nature of the business proposed to be transacted or the purpose of any meeting of the Board of Directors shall be specified in the notices of such meeting where possible.

3. Special Meeting Notice. In the event of a special meeting, a notice of such special meeting shall be posted at least seventy-two (72) hours in advance at the clerks' offices of the counties, cities and towns indicated above, for posting in a public place. At least seventy-two (72) hours advance notice of the special meeting time, place and date shall be provided to the directors and alternate directors, and to those members of the public who so request. The general nature of the business proposed to be transacted at or the purpose of any meeting of the Board of Directors shall be specified in the notices of such meeting where possible. The Board of Directors' ability to act on matters brought before it at a special meeting is restricted to those items specified in the notice.

4. Emergency Meeting Notice. Should the Board of Directors determine an emergency special meeting is necessary, a notice of such emergency meeting shall be posted at least twenty-four (24) hours in advance at the clerks' offices of the counties, cities and towns indicated above in accordance with the Colorado Open Meetings Act. The general nature of the business proposed to be transacted at, or the purpose of, any meeting of the Board of Directors shall be specified in the notices of such meeting where possible. The Board of Directors' ability to act on matters brought before it at a special meeting is restricted to those items specified in the notice.

5. Additional Notification. The Stewardship Council shall maintain a list of persons who, within the previous two years, have requested notification of all meetings, or of meetings with discussions of certain specified policies, and shall provide reasonable advance notification of such meetings to the individuals.

APPROVED AND ADOPTED THIS 5TH DAY OF FEBRUARY, 2018.

(SEAL)

ROCKY FLATS STEWARDSHIP COUNCIL

By: _____
Chair

ATTEST:

By: _____

ROCKY FLATS STEWARDSHIP COUNCIL
Monday, October 30, 2017, 8:30 – 11:30 a.m.
Rocky Mountain Metropolitan Airport, Terminal Building, Mount Evans Room
11755 Airport Way, Broomfield, Colorado

Board members: Mark McGoff (Director, Arvada), Sandra McDonald (Alternate, Arvada), Megan Davis (Alternate, Boulder County), Mike Shelton (Director, Broomfield), David Allen (Alternate, Broomfield), Libby Szabo (Director, Jefferson County), Joyce Downing (Director, Northglenn), Chris Hanson (Director, Superior), Sandy Pennington (Alternate, Superior), Jan Kulmann (Director, Thornton), Emily Hunt (Alternate, Thornton) Bruce Baker (Director, Westminster), Mary Fabisiak (Alternate, Westminster), Jeannette Hillery (Director, League of Women Voters), Murph Widdowfield (Director, Rocky Flats Cold War Museum), Susan Flack, (Alternate, Rocky Flats Cold War Museum), Roman Kohler (Director, Rocky Flats Homesteaders)

Stewardship Council staff and consultants: David Abelson (Executive Director), Barbara Vander Wall (Seter & Vander Wall, P.C.), Rik Getty (Technical Program Manager), Ann Lockhart (Minutes)

Attendees: Christine Hawley (WCRA), Shirley Garcia (Broomfield), Ryan Hanson (Sen. Gardner), Carl Spreng (CDPHE), Lindsay Masters (CDPHE), Linda Kaiser (Navarro), Patty Gallo (Navarro), Jeremy Wehner (Navarro), John Boylan (Navarro), Bob Darr (Navarro), Jody Nelson (Navarro), Jeffrey Murl (DOE-LM), Vera Moritz (EPA), John Boylan (Navarro), Jeff Gipe, Marion Whitney, Bonnie Graham-Reed, Diane Vigil, Kim Griffiths, Tiffany Hansen, Nick Hansen, Pat Mellen, Elizabeth Panzer and Paul Karolyi (journalist, Changing Denver).

Convene/Agenda Review: Vice Chair Chris Hanson opened the meeting at 8:45 a.m. and listed the topics to be covered.

Public comment on Consent Agenda and Non-Agenda Items: Pat Mellen of the law offices of Randall Weiner wanted a correction to the September Stewardship Council update email. She said the judge dismissed the lawsuit against the U.S. Fish & Wildlife Service (USFWS) without prejudice, and wanted to clarify that the judge would allow for costs but not attorney fees. She said the USFWS did not petition the court to have the Plaintiffs cover its costs.

Business Items—Approval of Meeting Minutes and Checks: Bruce Baker made a motion to approve the minutes. The motion was seconded by Jeannette Hillery. The motion passed 11-0. Jeannette Hillery made a motion to approve the checks. The motion was seconded by Lisa Morzel. The motion passed 11-0.

Executive Director's Report: David Abelson said the Intergovernmental Agreement (IGA) amendments and triannual review were sent to the governments, and that the governments must adopt them in 2017 or early 2018. Later each government must make its appointments to the Stewardship Council.

Abelson said he taught a class on Rocky Flats for the University of Denver Osher Lifelong Learning Institute (OLLI). OLLI is for people 55 and over; approximately 25-30 attended the class. He listed six key comments from participants during their conversations: 1) They wanted to know the impact or risk from Rocky Flats to neighbors; 2) They asked if plutonium can be redistributed during construction of the proposed highway; 3) What is the extent of the plume offsite; 4) What is the impact of the fires at Rocky Flats; 5) How does Rocky Flats compare to other nuclear sites; and 6) What are the plans for trails at the Rocky Flats Refuge, because they want to hike them.

He said there has been an uptick in media interest in Rocky Flats, with some new to the issue, including Vice magazine, KUNC (aired a long story), and a Denver podcast. Abelson said the nature of the issues is not different from 2000, but that the issues are elevated due to various new media. During cleanup, the issues were how clean is clean, what's the risk, can we trust those in charge, will there be access to the refuge, what are the appropriate uses of the site, and how we close the chasm between fact and public perception. He said the dynamic of the governments is similar. Towards this end, he said the Citizens Advisory Board overseeing the cleanup chose cleanup to background levels, and that the governments, by contrast, understood what was feasible in terms of risk reduction. At closure, the governments had three overarching questions: 1) Did DOE do what it said it was going to do? 2) What contamination remains (i.e. hot spots)? and 3) What are the systems and protocols for post-management of the site.

Libby Szabo asked where people in the OLLI class came from. Abelson said some came from various neighborhoods and communities, including a few from the Whisper Creek neighborhood.

Murph Widdowfield said he had been interviewed by Japanese news reporters who asked what happened to all of the former Rocky Flats employees. Abelson said of the 8,000-10,000 workers, many retired, some secured work at other DOE sites, and some lost their jobs before they were able to get another job. One of the biggest challenges the cleanup contractor faced was incentivizing workers to work themselves out of a job.

Bruce Baker said a problem is that this Stewardship Council covers the Central Operable Unit, and that all the conflict involves the refuge where there was no cleanup. He said that was why people were frustrated. Abelson responded that there was a buffer zone sampling plan to investigate the areas of contamination. Based on that data and analysis, no active remediation was needed in the buffer zone.

Council Approval of 2018 Work Plan: The 2018 Work Plan was reviewed at the September 11, 2017, Stewardship Council meeting. Bruce Baker made a motion to accept the proposed 2018 Work Plan. Jeannette Hillery seconded the motion. The motion was approved 11-0.

Council Approval of 2018 Budget: The 2018 budget was reviewed at the September 11, 2017, Board meeting. No changes were offered at that meeting. Barb Vander Wall explained the budget review process. Prior to finalizing the budget, the Stewardship Council must hold a budget hearing and allow time for public comment. Following the public hearing, the Stewardship Council must approve the budget resolution, and approval must occur before the end of each year. She also noted that after the budget is approved, it is filed with the Division of

Local Governments by the end of January. Vander Wall reminded those in attendance that notice of the 2018 budget hearing was published in advance of this meeting, and that an official public hearing must be held before approval.

Chris Hanson officially opened the hearing for the 2018 budget. He asked for public comments. There being no public comments, the budget hearing was then closed. Mike Shelton made a motion to accept the 2018 budget. The motion was seconded by Jan Kulmann. The motion to approve the 2018 budget, appropriate the funds, and adopt the budget resolution was approved 11-0.

DOE Quarterly Report DOE, Second Quarter 2017: John Boylan of Navarro said he would cover both surface water and groundwater for the DOE 2017 Second Quarterly Report. The Superfund remedy at Rocky Flats includes maintaining two landfill covers and three groundwater treatment systems, conducting surface and groundwater monitoring and maintaining physical controls of signage and access restrictions. The staff must also enforce institutional controls, ensuring no building construction, excavation or soil disturbance; no surface water consumption or agricultural use; no groundwater wells except for monitoring; and protection of landfill covers and remedy components.

Boylan said routine sampling at the Present Landfill (PLF) showed that concentrations for all analytes were below the applicable Rocky Flats Legacy Management Agreement (RFLMA) water quality standards. No flow occurred from June 2, 2016 through April 4, 2017. The 12-month rolling average concentrations of plutonium at SW027 remained reportable from 2016. As of April 30, 2017, plutonium is no longer reportable at this location.

Concentrations at the Woman Creek Point of Compliance (WOMPOC) downstream of SW027 were not reportable, and no other RFLMA point of evaluation analyte concentrations were reportable during the second period.

Reportable 30-day average uranium concentrations were observed at Walnut Creek Point of Compliance (WALPOC). Concentrations were reportable from December 8, 2016 to April 3, 2017, during winter base flow conditions. (See RFLMA Contact Record 2017-02.) The 12-month rolling average uranium concentration has remained below the reportable level. All RFLMA point of compliance analyte concentrations remained below reportable levels during the second quarter.

RFLMA Groundwater Monitoring Overview: The RFLMA Groundwater Monitoring Network includes 10 RCRA (Resource Conservation Recovery Act) wells monitored quarterly to evaluate impacts from the Present Landfill and Original Landfill. Nine area of concern (AOC) wells and one surface water support location are checked semiannually and are located in drainages downstream of contaminant plumes to evaluate for plumes discharging to surface water.

There are 27 sentinel groundwater wells downgradient of treatment systems, on edges of plumes, and in the drainages. They are monitored semiannually to check for plumes migrating to surface water and for treatment system problems.

In addition, 42 evaluation wells within plumes, near source areas and inside the Central Operable Unit are monitored biennially to see whether the monitoring of an area or plume can cease. Of the nine treatment system locations, seven are monitored semiannually and two quarterly.

The second quarter of 2017 was a heavy sampling period covering all RFLMA locations except for the evaluation wells, which will be sampled the second quarter of 2018. One surface water grab sample was taken to support a reportable condition of trichloroethylene (TCE) at AOC well 10304. That well remains reportable for TCE. It was not detected in a surface water sample collected from a nearby Woman Creek location. These results are generally consistent with previous data and will be evaluated as part of the 2017 annual report.

Regarding treatment system activities, Boylan said he will procure uranium treatment expertise and award a bid in early August to support selection, design and installation of the treatment system component for the Solar Ponds Plume Treatment System (SPPTS). The procurement package was posted in late June.

David Allen asked about additional uranium sampling in Walnut Creek. Boylan said 18 samples were sent to Lawrence Berkeley National Laboratories, and 72-80 percent of the samples were from naturally occurring sources. He said they came from various locations and that nothing was surprising.

Bruce Baker asked about active mitigation of nitrates. Boylan said bacteria in the lagoon were eating down the nitrates. Sandy Pennington asked about the impacts of the September 2013 flood. Boylan said some concentrations were up, while others were down. That data is listed in previous reports. When the roads surrounding Rocky Flats were closed, staff could not get out to check for a number of hours. He said later results showed contaminants were well below limits.

A member of the public asked about the potential breaching of the terminal ponds. Abelson said four governments have been closely tracking these issues, and communicating their concerns to DOE, CDPHE and EPA. Mike Shelton said the dams must stay in place to keep contamination on site.

Site Operations: Jeremy Wehner said signs were inspected on May 17, 2017 as part of the RFLMA physical control efforts, and that all signs were present and legible. Monthly inspections were done April 20, May 21 and June 20, 2017. During the May 21 weather-related inspection after a weekend wet snowstorm, a slumping event was identified. It was initially smaller than the 2016 slumping event, but that the final extent was nearly identical. Navarro staff surveyed eight settlement monuments on June 13 and found that vertical settling at each monument was within limits.

Regarding the Original Landfill stabilization activities, the East Subsurface Drain was inspected as part of the landfill's monthly and weather-related inspections. The temporary groundwater intercept system became operational March 29 and operated through the second quarter. One quarterly inspection of the Present Landfill, combined with a weather-related inspection, was performed May 21, 2017. The landfill was found to be in good condition, so no maintenance

was required.

Areas around former buildings 371, 771, 881 and 991 are routinely inspected for subsidence quarterly and during weather-related checks. The second quarter inspection was conducted May 21 after a weather-related event. No significant changes to previously identified depressions were noted, and no new depressions were identified.

The North Walnut Creek hillside slump was regraded to close cracks, ensure positive drainage and to relocate some of the soil thought to be contributing to the slump's excess. About 1,700 cubic yards of excess soil was hauled to the East Trenches and used as cover on five trenches to promote drainage. Disturbed areas were seeded and hydro-mulched. All sites are sprayed with water to control dust. A geophysical bedrock survey was conducted after the grading project was completed, and roads were repaired that had been impacted by the North Walnut Creek slump.

Ecology: Jody Nelson reported on ecology activities at the site including weed mapping. He said a subcontractor applied herbicides on approximately 133 acres to control noxious weeds, doing spot-applications of herbicides for small infestations.

Nest box surveys, prairie dog surveys and wetland water level and weed surveys were also done. No prairie dogs were in the Central Operable Unit. Grass was mowed and bird nesting deterrents (plywood eagles and coyote) were installed to reduce the potential for Preble's Meadow Jumping Mice and nesting birds settling in the project areas. Nelson prepared for monitoring for Preble's Mouse and wetland mitigation, along with revegetation monitoring, to be conducted in the third quarter.

Pennington asked whether there was any discussion on an eventual burn. Abelson said he has heard nothing about that. Mike Shelton said there was heavy pushback to a proposed burn and that an alternate, such as using goats, was suggested and that USFWS canceled the burn.

Public Comment on DOE's Quarterly Report: Pat Mellen asked about nitrates in the groundwater treatment system. John Boylan said the bacteria eat the nitrates. Bonnie Graham Reed asked about groundwater movement on site. Boylan said groundwater discharges to surface water and does not move as groundwater off-site. Marion Whitney followed up by asking about springs on-site. Boylan said that water is monitored via surface water monitoring, with decades of data to back up the sampling results.

Amendments to Bylaws: Abelson said there were two proposed amendments to the Stewardship Council bylaws, and that the Stewardship Council would take action on them February 5. First, some local government officials will leave due to term limits, so an amendment was proposed as a way to allow former officials to serve on the Stewardship Council in a non-voting capacity at the Board's discretion.

Pennington suggested that in Stewardship Council voting, the chair ask for yay, nay and abstentions to more accurately record opinions of Stewardship Council members.

Libby Szabo asked how big might the Stewardship Council get with former officials, and what problem did they want to solve with the proposed amendment. Keeping the institutional knowledge was one answer. Jeannette Hillery added that some newly elected officials have no history with the site. Abelson said appointments would be one year at a time, to be reviewed annually. Mark McGoff noted that former members can attend now. Chris Hanson said a former Superior representative had been a Rocky Flats worker with site knowledge, but when his term on the Superior Board of Trustees ended, so did his time on the Stewardship Council. He noted that loss of institutional knowledge. Megan Davis noted there is value having people with long-time expertise.

Abelson said the second bylaws amendment would stagger appointments. Mike Shelton said he supported staggering terms and that the additional effort of making appointments annually would not be unduly burdensome. McGoff agreed, and suggested the last four words of the proposed amendment on members' terms be removed. The other members agreed to that proposed change.

New Member Interviews and Selection: The Board interviewed the following five candidates for the four nongovernmental seats on the Stewardship Council. The following is a summary of that discussion.

1. Jeanette Hillery said the League of Women Voters has had a long history on Rocky Flats and has facilitated or moderated meetings on nuclear issues, provided the history of the site and invited participation in nuclear issues. She has institutional knowledge of Rocky Flats and wants to encourage public participation and dialogue about it. She wants to keep the public informed on what happened at Rocky Flats in the Central Operable Unit and buffer zone, and to continue to clarify information. Sue Vaughn is her alternate who usually attends. Hillery said she distributes information to the 19 local League units in the state through articles or presentations, and also periodically answers questions.
2. Murph Widdowfield, President of the Rocky Flats Cold War Museum, said the Museum was founded in 2001 to save the history of Rocky Flats and to collect artifacts (which are now in storage). The Museum board would like to display them and is seeking funding to have a physical presence. He said he and others do presentations to schools. They spoke to about 200 kids from Adams 12 Stem Launch and to other schools and museums. Three talks are scheduled this spring. He said the Museum keeps receiving collectibles and board members continue to do newspaper interviews. The *Military Times* did a recent story on what has happened and what is happening at Rocky Flats. Widdowfield said tracking site activities is the Stewardship Council's role along with serving as a source of communication with the local community.
3. Tiffany Hansen is director and co-founder of the Rocky Flats Downwinders, which is a 501(c)(3) organization. It started in 2014 to advocate for residents downwind of the site. She wants to have more health studies done, raise awareness of the history, and promote more signage to make people aware of health issues. She also wants supportive services for the people impacted. She would promote awareness in the community, track decisions on the contaminated land and track the health of workers and community

members. She said she has more than 2,000 people on her online newsletter list. The Downwinders have no regular meetings, but do use Facebook, Twitter and emails for communication. She also generates news stories and communicates with other groups near other nuclear sites. She said she could not attend every meeting due to work, but that an alternate would come. Her goal is to look at health problems of the people living nearby. Asked where she gets her information, she said she is reaching out to CSU and DU and wants more data. She said her 13-year-old son is sick, and she needs more information about it. Chris Hanson said it was important that everyone on the Stewardship Council gets along. He noted that some of their Facebook and Twitter posts were very negative against the Stewardship Council; one said the Stewardship Council was bought and paid for by DOE. He asked if she supported that. She said she did not write that, but noted she was the only one who posts on the organization's twitter feed.

4. Roman Kohler of the Rocky Flats Homesteaders said that there are more than 4,500 Rocky Flats retirees. The Homesteaders, chartered in 1982 as an employee organization, has 1,300 dues-paying members who get monthly newsletters. About 70-90 of them come to monthly meetings. A key objective is to ensure that DOE keeps its promises to former workers on retirement, health insurance and compensation through the Department of Labor for environmental exposures. The Stewardship Council has been very supportive, but it is an ongoing issue. About 80 percent of the 1,300 workers live in the local area, although some have moved away. He worked at Rocky Flats for 27 years and remains interested in what is happening at the site. He said he would still attend, if not reappointed to the Stewardship Council, and that he went to many meetings before the Stewardship Council was created.
5. Kim Griffiths said she is a local concerned citizen who lives in Candelas, but does not represent an organization. She believes the Stewardship Council should represent local interests related to the Superfund cleanup. She would represent her Candelas neighbors and friends. She said she has been concerned about the coarseness of the dialogue of some. She recounted a story of attending a community forum on Rocky Flats where she was screamed at and told that her children would not live to adulthood. She said some of the comments were harmful and degrading, and that she was told she was lying. She has lived in the area for 30 years and did research before she bought a house next to a Superfund site, although some told her she was lured in by a developer. She wants to remain vigilant and involved with issues at the site. She said she tried to hold a meeting, but that many neighbors are not engaged. One of her neighbors, a Colorado School of Mines physics professor, is developing a website about Rocky Flats and helped her understand some of the issues.

Stewardship Council member present then voted on their top four selections for non-governmental Stewardship Council seats. The results were:

- League of Women Voters, 8
- Rocky Flats Homesteaders, 8
- Rocky Flats Cold War Museum, 8
- Kim Griffiths, 6
- Rocky Flats Downwinders, 1

The first three groups will continue on the Stewardship Council, and Kim Griffiths will join the Stewardship Council at its next meeting.

Returning to the proposed bylaw amendment regarding staggering terms, Kim Griffiths would receive a one-year term. Murph Widdowfield offered to have the Rocky Flats Cold War Museum take a one-year term, as did the League of Women Voters. The Museum prevailed, and should the amendment be approved at the February 2018 meeting, the Museum would also serve a one-year term. That means the League of Women Voters and the Rocky Flats Homesteaders received two-year terms.

The meeting was adjourned at 11:40 a.m.

Prepared by Ann Lockhart

Rocky Flats Stewardship Council
Check Detail 2018
October 8, 2017 through January 17, 2018

Type	Num	Date	Name	Account	Paid Amount	Original Amount
Check		10/27/2017		CASH-Wells Fargo-Operating		-3.50
				Admin Services-Misc Services	-3.50	3.50
TOTAL					-3.50	3.50
Check		11/28/2017		CASH-Wells Fargo-Operating		-3.50
				Admin Services-Misc Services	-3.50	3.50
TOTAL					-3.50	3.50
Check	1887	11/08/2017	Century Link	CASH-Wells Fargo-Operating		-27.17
				Telecommunications	-27.17	27.17
TOTAL					-27.17	27.17
Bill Pmt -Check	1888	11/08/2017	Blue Sky Bistro	CASH-Wells Fargo-Operating		-300.00
Bill	2771	10/30/2017		Misc Expense-Local Government	-300.00	300.00
TOTAL					-300.00	300.00
Bill Pmt -Check	1889	11/08/2017	Crescent Strategies, LLC	CASH-Wells Fargo-Operating		-8,462.30
Bill	10/31/17 Billing	10/31/2017		Personnel - Contract	-7,750.00	7,750.00
				Telecommunications	-138.11	138.11
				TRAVEL-Local	-42.80	42.80
				Postage	-15.99	15.99
				TRAVEL-Out of State	-515.40	515.40
TOTAL					-8,462.30	8,462.30
Bill Pmt -Check	1890	11/08/2017	Jennifer A. Bohn	CASH-Wells Fargo-Operating		-418.00
Bill	17-65	10/31/2017		Accounting Fees	-418.00	418.00
TOTAL					-418.00	418.00
Bill Pmt -Check	1891	11/08/2017	Seter & Vander Wall, P.C.	CASH-Wells Fargo-Operating		-4,864.96
Bill	75565	10/31/2017		Attorney Fees	-4,864.96	4,864.96
TOTAL					-4,864.96	4,864.96
Bill Pmt -Check	1892	12/07/2017	Ann J. Lockhart	CASH-Wells Fargo-Operating		-600.00
Bill	11/28/17Invoice	10/30/2017		Personnel - Contract	-600.00	600.00
TOTAL					-600.00	600.00
Bill Pmt -Check	1893	12/07/2017	Crescent Strategies, LLC	CASH-Wells Fargo-Operating		-8,642.01
Bill	11/30/17 Bill	11/30/2017		Personnel - Contract	-7,750.00	7,750.00
				Telecommunications	-138.11	138.11
				TRAVEL-Local	-77.58	77.58
				Postage	-15.99	15.99
				TRAVEL-Out of State	-660.33	660.33
TOTAL					-8,642.01	8,642.01
Bill Pmt -Check	1894	12/07/2017	Jennifer A. Bohn	CASH-Wells Fargo-Operating		-237.50
Bill	17-66	11/30/2017		Accounting Fees	-237.50	237.50
TOTAL					-237.50	237.50
Bill Pmt -Check	1895	12/07/2017	Seter & Vander Wall, P.C.	CASH-Wells Fargo-Operating		-35.10
Bill	75712	11/30/2017		Attorney Fees	-35.10	35.10
TOTAL					-35.10	35.10
Check	1896	12/07/2017	Century Link	CASH-Wells Fargo-Operating		-27.01
				Telecommunications	-27.01	27.01
TOTAL					-27.01	27.01

9:17 AM
01/17/18

Rocky Flats Stewardship Council
Check Detail 2018
October 8, 2017 through January 17, 2018

Type	Num	Date	Name	Account	Paid Amount	Original Amount
Bill Pmt -Check	1897	01/04/2018	Seter & Vander Wall, P.C.	CASH-Wells Fargo-Operating		-1,734.75
Bill	75864	12/31/2017		Attorney Fees	-1,734.75	1,734.75
TOTAL					-1,734.75	1,734.75
Bill Pmt -Check	1898	01/04/2018	Jennifer A. Bohn	CASH-Wells Fargo-Operating		-399.00
Bill	17-79	12/31/2017		Accounting Fees	-399.00	399.00
TOTAL					-399.00	399.00
Bill Pmt -Check	1899	01/04/2018	Crescent Strategies, LLC	CASH-Wells Fargo-Operating		-8,280.16
Bill	12/31/17 Billing	12/31/2017		Personnel - Contract	-7,750.00	7,750.00
				Telecommunications	-138.11	138.11
				TRAVEL-Local	-62.06	62.06
				Postage	-329.99	329.99
TOTAL					-8,280.16	8,280.16
Check	1900	01/04/2018	Century Link	CASH-Wells Fargo-Operating		-26.96
				Telecommunications	-26.96	26.96
TOTAL					-26.96	26.96

DOE Quarterly Report Briefing

- Cover memo
- Section of quarterly report

CDPHE Briefing

- Cover memo

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City of Golden ~ City of Northglenn ~ City of Thornton ~ City of Westminster ~ Town of Superior
League of Women Voters ~ Rocky Flats Cold War Museum ~ Rocky Flats Homesteaders

MEMORANDUM

TO: Stewardship Council Board
FROM: Rik Getty
SUBJECT: Quarterly Report Briefing
DATE: January 20, 2018

DOE will present its quarterly update for the third quarter of 2017 (July - September). The quarterly report (134 pages) is found at: https://www.lm.doe.gov/Rocky_Flats/3rdQtr17_RFS.pdf I have attached a few sections from the report – table of contents, list of figures and appendices, map showing surface water and groundwater monitoring stations, and water quality monitoring results.

Regarding the water quality monitoring results, I am providing it to illustrate the scope of the water quality monitoring program, the nature of the data presented, and the range of contaminants that are monitored (namely, not just radionuclides). Bear in mind that this quarter is a not a heavy sampling quarter.

Executive Summary – The following are highlights from the third quarter:

- Present Landfill (PLF) - The Present Landfill routine quarterly inspection was conducted on August 8, 2017, and coincided with a weather-related inspection. An additional weather-related inspection was conducted on September 25, 2017, due to precipitation of nearly 1 inch. No issues were identified during either inspection.
- Original Landfill (OLF) - The OLF is inspected monthly, and the routine monthly inspections were conducted on July 20, August 21, and September 21, 2017. Weather-related inspections were conducted on August 8 and September 25 following summer rainstorms. No significant issues were identified during the inspections, with the exception of minor cracking on August 8, 2017. In response to slumping observed at the OLF over the past 3 years, construction of a temporary groundwater intercept was initiated in March 2017. The purpose of the project was to intercept groundwater up-gradient of the OLF and pump it to the East Subsurface Drain. The system was operational during the quarter.
- Groundwater Plume Treatment Systems - Routine maintenance was performed at the East Trenches Plume Treatment System, the associated Mound Site Plume Collection System, and at the Solar Ponds Plume Treatment System (SPPTS). Testing of uranium treatment using microcells continued at the SPPTS. At the Present Landfill Treatment System, routine maintenance generally consists of inspecting the system for potential problems. No problems were observed during the quarter.

- Water Monitoring Network - Water monitoring results met the targeted monitoring objectives established for the site. A total of 8 flow-paced composite samples, 3 surface water grab samples, and 10 groundwater samples were collected. In addition, 15 treatment system samples were collected and analyzed to support other objectives. All analyte concentrations at the RFLMA point of evaluation locations GS10, SW027, and SW093 remained below the reportable condition levels throughout the quarter. All analyte concentrations at RFLMA point of compliance locations WALPOC and WOMPOC remained below reportable condition levels throughout the quarter. Data from groundwater monitoring will be evaluated as part of the 2017 annual report.
- Ecological monitoring - No evidence of adverse biological conditions (e.g., unexpected mortality or morbidity) was observed during monitoring and maintenance activities in the quarter. Additional ecological monitoring consisted of conducting routine re-vegetation, Preble's mouse, photo-point, and wetland mitigation monitoring; mapping project disturbance areas; counting shrub and tree survival at former habitat enhancement areas; and conducting prairie dog surveys.

Please let me know if you have any questions.

**Rocky Flats Site, Colorado,
Quarterly Report of
Site Surveillance and
Maintenance Activities
Third Quarter
Calendar Year 2017**

January 2018



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

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Appendix B	Analytical Results for Water Samples—Third Quarter CY 2017

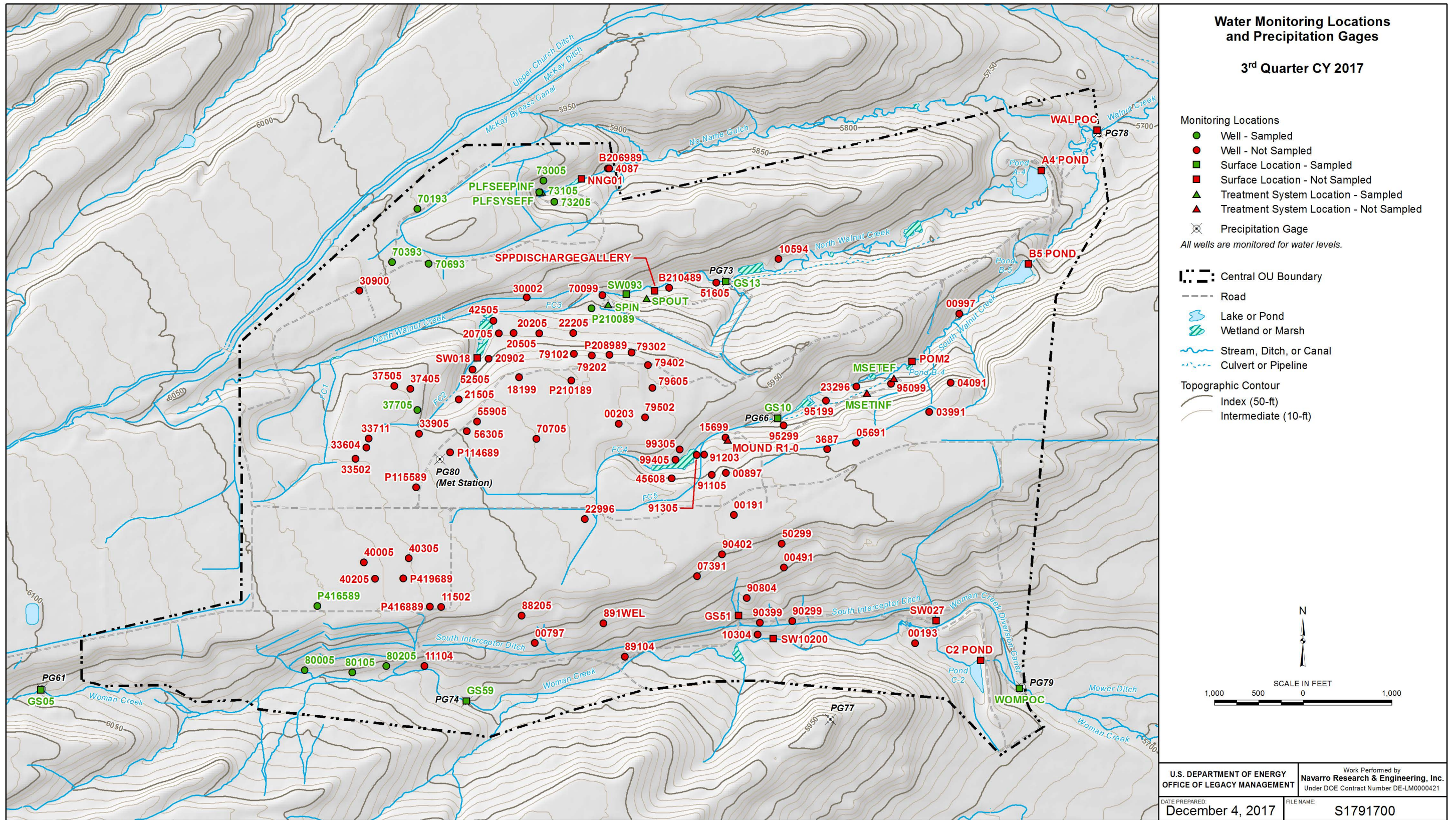


Figure 1. Rocky Flats Site Water Monitoring Locations and Precipitation Gages

Appendix B

Analytical Results for Water Samples—Third Quarter CY 2016

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
GS05	SL	7/10/2017	17078628	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS05	SL	7/10/2017	17078628	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		valid	G	STD
GS05	SL	7/10/2017	17078628	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		valid	G	STD
GS05	SL	7/10/2017	17078628	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		valid	G	STD
GS05	SL	7/10/2017	17078628	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		valid	G	STD
GS05	SL	7/10/2017	17078628	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		valid	G	STD
GS05	SL	7/10/2017	17078628	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid	G	STD
GS05	SL	7/10/2017	17078628	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
GS05	SL	7/10/2017	17078628	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid	G	STD
GS05	SL	7/10/2017	17078628	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		valid	G	STD
GS05	SL	7/10/2017	17078628	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid	G	STD
GS05	SL	7/10/2017	17078628	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS05	SL	7/10/2017	17078628	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS05	SL	7/10/2017	17078628	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS05	SL	7/10/2017	17078628	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid	G	STD
GS05	SL	7/10/2017	17078628	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid	G	STD
GS05	SL	7/10/2017	17078628	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid	G	STD
GS05	SL	7/10/2017	17078628	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS05	SL	7/10/2017	17078628	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS05	SL	7/10/2017	17078628	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS05	SL	7/10/2017	17078628	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid	G	STD
GS05	SL	7/10/2017	17078628	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
GS05	SL	7/10/2017	17078628	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS05	SL	7/10/2017	17078628	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		valid	G	STD
GS05	SL	7/10/2017	17078628	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		valid	G	STD
GS05	SL	7/10/2017	17078628	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid	G	STD
GS05	SL	7/10/2017	17078628	91-20-3	Naphthalene	N001	0.68	ug/L	J	F	0.22		J	G	STD
GS05	SL	7/10/2017	17078628	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS05	SL	7/10/2017	17078628	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid	G	STD
GS05	SL	7/10/2017	17078628	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS05	SL	7/10/2017	17078628	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid	G	STD
GS05	SL	7/10/2017	17078628	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
GS05	SL	7/10/2017	17078628	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid	G	STD
GS05	SL	7/10/2017	17078628	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS05	SL	7/10/2017	17078628	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		valid	G	STD
GS59	SL	7/10/2017	17078628	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS59	SL	7/10/2017	17078628	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		valid	G	STD
GS59	SL	7/10/2017	17078628	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		valid	G	STD
GS59	SL	7/10/2017	17078628	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		valid	G	STD
GS59	SL	7/10/2017	17078628	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		valid	G	STD
GS59	SL	7/10/2017	17078628	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		valid	G	STD
GS59	SL	7/10/2017	17078628	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid	G	STD
GS59	SL	7/10/2017	17078628	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
GS59	SL	7/10/2017	17078628	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid	G	STD
GS59	SL	7/10/2017	17078628	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		valid	G	STD
GS59	SL	7/10/2017	17078628	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid	G	STD
GS59	SL	7/10/2017	17078628	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS59	SL	7/10/2017	17078628	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS59	SL	7/10/2017	17078628	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS59	SL	7/10/2017	17078628	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid	G	STD
GS59	SL	7/10/2017	17078628	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid	G	STD
GS59	SL	7/10/2017	17078628	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid	G	STD
GS59	SL	7/10/2017	17078628	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS59	SL	7/10/2017	17078628	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS59	SL	7/10/2017	17078628	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS59	SL	7/10/2017	17078628	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid	G	STD
GS59	SL	7/10/2017	17078628	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
GS59	SL	7/10/2017	17078628	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS59	SL	7/10/2017	17078628	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		valid	G	STD
GS59	SL	7/10/2017	17078628	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		valid	G	STD
GS59	SL	7/10/2017	17078628	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid	G	STD
GS59	SL	7/10/2017	17078628	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid	G	STD
GS59	SL	7/10/2017	17078628	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS59	SL	7/10/2017	17078628	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid	G	STD
GS59	SL	7/10/2017	17078628	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
GS59	SL	7/10/2017	17078628	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid	G	STD
GS59	SL	7/10/2017	17078628	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
GS59	SL	7/10/2017	17078628	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid	G	STD
GS59	SL	7/10/2017	17078628	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
GS59	SL	7/10/2017	17078628	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	71-55-6	1,1,1-Trichloroethane	N003	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	71-55-6	1,1,1-Trichloroethane	N004	0.16	ug/L	U	D	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	79-34-5	1,1,2,2-Tetrachloroethane	N003	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	79-34-5	1,1,2,2-Tetrachloroethane	N004	0.21	ug/L	U	D	0.21		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	79-00-5	1,1,2-Trichloroethane	N003	0.27	ug/L	U	F	0.27		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	79-00-5	1,1,2-Trichloroethane	N004	0.27	ug/L	U	D	0.27		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-35-4	1,1-Dichloroethene	N003	0.23	ug/L	U	F	0.23		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-35-4	1,1-Dichloroethene	N004	0.23	ug/L	U	D	0.23		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	120-82-1	1,2,4-Trichlorobenzene	N003	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	120-82-1	1,2,4-Trichlorobenzene	N004	0.21	ug/L	U	D	0.21		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	96-12-8	1,2-Dibromo-3-chloropropane	N003	0.47	ug/L	U	F	0.47		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	96-12-8	1,2-Dibromo-3-chloropropane	N004	0.47	ug/L	U	D	0.47		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	106-93-4	1,2-Dibromoethane	N003	0.18	ug/L	U	F	0.18		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	106-93-4	1,2-Dibromoethane	N004	0.18	ug/L	U	D	0.18		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	95-50-1	1,2-Dichlorobenzene	N003	0.27	ug/L	J	F	0.15		valid	G	STD

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
PLFSEEPINF	TS	7/10/2017	17078628	95-50-1	1,2-Dichlorobenzene	N004	0.27	ug/L	J	D	0.15		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	107-06-2	1,2-Dichloroethane	N003	0.13	ug/L	U	F	0.13		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	107-06-2	1,2-Dichloroethane	N004	0.13	ug/L	U	D	0.13		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	78-87-5	1,2-Dichloropropane	N003	0.18	ug/L	U	F	0.18		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	78-87-5	1,2-Dichloropropane	N004	0.18	ug/L	U	D	0.18		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	541-73-1	1,3-Dichlorobenzene	N003	0.13	ug/L	U	F	0.13		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	541-73-1	1,3-Dichlorobenzene	N004	0.13	ug/L	U	D	0.13		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	106-46-7	1,4-Dichlorobenzene	N003	0.35	ug/L	J	F	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	106-46-7	1,4-Dichlorobenzene	N004	0.37	ug/L	J	D	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-38-2	Arsenic	N001	7.6	ug/L	J	F	4.4		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-38-2	Arsenic	N002	4.4	ug/L	U	D	4.4		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	71-43-2	Benzene	N003	2	ug/L		F	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	71-43-2	Benzene	N004	2.1	ug/L		D	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-41-7	Beryllium	N001	0.47	ug/L	U	F	0.47		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-41-7	Beryllium	N002	0.47	ug/L	U	D	0.47		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-42-8	Boron	N001	1300	ug/L		F	4.4		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-42-8	Boron	N002	1200	ug/L		D	4.4		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-27-4	Bromodichloromethane	N003	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-27-4	Bromodichloromethane	N004	0.17	ug/L	U	D	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-25-2	Bromoform	N003	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-25-2	Bromoform	N004	0.19	ug/L	U	D	0.19		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	74-83-9	Bromomethane	N003	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	74-83-9	Bromomethane	N004	0.21	ug/L	U	D	0.21		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-43-9	Cadmium	0002	0.45	ug/L	U	D	0.45		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	56-23-5	Carbon tetrachloride	N003	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	56-23-5	Carbon tetrachloride	N004	0.19	ug/L	U	D	0.19		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	108-90-7	Chlorobenzene	N003	0.68	ug/L	J	F	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	108-90-7	Chlorobenzene	N004	0.73	ug/L	J	D	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	124-48-1	Chlorodibromomethane	N003	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	124-48-1	Chlorodibromomethane	N004	0.17	ug/L	U	D	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	67-66-3	Chloroform	N003	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	67-66-3	Chloroform	N004	0.16	ug/L	U	D	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	74-87-3	Chloromethane	N003	0.3	ug/L	U	F	0.3		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	74-87-3	Chloromethane	N004	0.3	ug/L	UJ	D	0.3		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-47-3	Chromium	N001	0.66	ug/L	U	F	0.66		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-47-3	Chromium	N002	0.66	ug/L	U	D	0.66		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	156-59-2	cis-1,2-Dichloroethene	N003	0.15	ug/L	U	F	0.15		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	156-59-2	cis-1,2-Dichloroethene	N004	0.15	ug/L	U	D	0.15		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-50-8	Copper	0002	4.2	ug/L	U	D	4.2		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	100-41-4	Ethylbenzene	N003	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	100-41-4	Ethylbenzene	N004	0.16	ug/L	U	D	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	87-68-3	Hexachlorobutadiene	N003	0.36	ug/L	U	F	0.36		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	87-68-3	Hexachlorobutadiene	N004	0.36	ug/L	U	D	0.36		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7439-92-1	Lead	0001	6.1	ug/L	J	F	2.7		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7439-92-1	Lead	0002	3.8	ug/L	J	D	2.7		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7439-97-6	Mercury	N002	0.027	ug/L	U	D	0.027		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-09-2	Methylene chloride	N003	0.32	ug/L	U	F	0.32		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-09-2	Methylene chloride	N004	0.32	ug/L	U	D	0.32		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	91-20-3	Naphthalene	N003	25	ug/L		F	0.22		J	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	91-20-3	Naphthalene	N004	24	ug/L		D	0.22		J	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-02-0	Nickel	0001	4.7	ug/L	J	F	2.6		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-02-0	Nickel	0002	4.6	ug/L	J	D	2.6		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7782-49-2	Selenium	N001	6.3	ug/L	U	F	6.3		J	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7782-49-2	Selenium	N002	6.3	ug/L	U	D	6.3		J	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		J	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-22-4	Silver	0002	0.93	ug/L	U	D	0.93		J	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	100-42-5	Styrene	N003	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	100-42-5	Styrene	N004	0.17	ug/L	U	D	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	127-18-4	Tetrachloroethene	N003	0.2	ug/L	U	F	0.2		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	127-18-4	Tetrachloroethene	N004	0.2	ug/L	U	D	0.2		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	108-88-3	Toluene	N003	0.19	ug/L	J	F	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	108-88-3	Toluene	N004	0.2	ug/L	J	D	0.17		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	1330-20-7	Total Xylenes	N003	1.2	ug/L	J	F	0.19		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	1330-20-7	Total Xylenes	N004	1.2	ug/L	J	D	0.19		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	156-60-5	trans-1,2-Dichloroethene	N003	0.15	ug/L	U	F	0.15		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	156-60-5	trans-1,2-Dichloroethene	N004	0.15	ug/L	U	D	0.15		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	10061-02-6	trans-1,3-dichloropropene	N003	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	10061-02-6	trans-1,3-dichloropropene	N004	0.19	ug/L	U	D	0.19		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	79-01-6	Trichloroethene	N003	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	79-01-6	Trichloroethene	N004	0.16	ug/L	U	D	0.16		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-61-1	Uranium	N001	0.14	ug/L	JB	F	0.05		U	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-61-1	Uranium	N002	0.16	ug/L	JB	D	0.05		U	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-61-1	Uranium	N003	0.13	ug/L	B	F	0.05		U	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-61-1	Uranium	N004	0.17	ug/L	B	D	0.05		U	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-01-4	Vinyl chloride	N003	0.33	ug/L	J	F	0.1		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	75-01-4	Vinyl chloride	N004	0.33	ug/L	J	D	0.1		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-66-6	Zinc	0001	71	ug/L		F	4.5		valid	G	STD
PLFSEEPINF	TS	7/10/2017	17078628	7440-66-6	Zinc	0002	69	ug/L		D	4.5		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		valid	G	STD

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Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
PLFSYSEFF	TS	7/10/2017	17078628	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	105-67-9	2,4-Dimethylphenol	N001	0.56	ug/L	U	F	0.56		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	95-95-4	2,4,5-Trichlorophenol	N001	0.43	ug/L	U	F	0.43		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	88-06-2	2,4,6-Trichlorophenol	N001	0.28	ug/L	U	F	0.28		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	120-83-2	2,4-Dichlorophenol	N001	0.61	ug/L	U	F	0.61		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	51-28-5	2,4-Dinitrophenol	N001	9.6	ug/L	U	F	9.6		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	121-14-2	2,4-Dinitrotoluene	N001	1.6	ug/L	U	F	1.6		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	606-20-2	2,6-Dinitrotoluene	N001	1.8	ug/L	U	F	1.8		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	91-58-7	2-Chloronaphthalene	N001	0.25	ug/L	U	F	0.25		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	95-57-8	2-Chlorophenol	N001	1.9	ug/L	U	F	1.9		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	91-94-1	3,3'-Dichlorobenzidine	N001	1.9	ug/L	U	F	1.9		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	534-52-1	4,6-Dinitro-2-methyl phenol	N001	3.8	ug/L	U	F	3.8		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	59-50-7	4-Chloro-3-methylphenol	N001	2.3	ug/L	U	F	2.3		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	83-32-9	Acenaphthene	N001	2	ug/L	J	F	0.27		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	120-12-7	Anthracene	N001	0.42	ug/L	J	F	0.4		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-38-2	Arsenic	N001	9.2	ug/L	J	F	4.4		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	56-55-3	Benz(a)anthracene	N001	0.34	ug/L	U	F	0.34		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	71-43-2	Benzene	N001	0.83	ug/L	J	F	0.16		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	50-32-8	Benzo(a)pyrene	N001	0.3	ug/L	U	F	0.3		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	205-99-2	Benzo(b)fluoranthene	N001	0.51	ug/L	U	F	0.51		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	191-24-2	Benzo(g,h,i)Perylene	N001	0.48	ug/L	U	F	0.48		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	207-08-9	Benzo(k)fluoranthene	N001	0.44	ug/L	U	F	0.44		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-41-7	Beryllium	N001	0.47	ug/L	U	F	0.47		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	111-44-4	Bis(2-chloroethyl) ether	N001	0.39	ug/L	U	F	0.39		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.27	ug/L	U	F	0.27		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.54	ug/L	U	F	0.54		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-42-8	Boron	N001	940	ug/L	U	F	4.4		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	85-68-7	Butyl benzyl phthalate	N001	0.96	ug/L	U	F	0.96		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-43-9	Cadmium	N001	0.45	ug/L	U	F	0.45		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	108-90-7	Chlorobenzene	N001	0.26	ug/L	J	F	0.17		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-47-3	Chromium	N001	0.69	ug/L	J	F	0.66		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	218-01-9	Chrysene	N001	0.52	ug/L	U	F	0.52		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-50-8	Copper	N001	4.2	ug/L	U	F	4.2		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	53-70-3	Dibenz(a,h)anthracene	N001	0.49	ug/L	U	F	0.49		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	84-66-2	Diethyl phthalate	N001	0.36	ug/L	U	F	0.36		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	131-11-3	Dimethyl phthalate	N001	0.2	ug/L	U	F	0.2		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	84-74-2	Di-n-butyl phthalate	N001	1.1	ug/L	U	F	1.1		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	206-44-0	Fluoranthene	N001	0.47	ug/L	J	F	0.19		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	86-73-7	Fluorene	N001	1.6	ug/L	J	F	0.3		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	118-74-1	Hexachlorobenzene	N001	0.63	ug/L	U	F	0.63		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	77-47-4	Hexachlorocyclopentadiene	N001	9.6	ug/L	U	F	9.6		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	67-72-1	Hexachloroethane	N001	2	ug/L	U	F	2		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.62	ug/L	U	F	0.62		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	78-59-1	Isophorone	N001	0.2	ug/L	U	F	0.2		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7439-92-1	Lead	N001	2.7	ug/L	U	F	2.7		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	91-20-3	Naphthalene	N001	3.9	ug/L	U	F	0.22		J	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-02-0	Nickel	N001	4.1	ug/L	J	F	2.6		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	98-95-3	Nitrobenzene	N001	0.78	ug/L	U	F	0.78		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	621-64-7	N-Nitrosodi-n-propylamine	N001	0.34	ug/L	U	F	0.34		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	86-30-6	N-Nitrosodiphenylamine	N001	0.42	ug/L	U	F	0.42		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	87-86-5	Pentachlorophenol	N001	19	ug/L	U	F	19		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	108-95-2	Phenol	N001	1.9	ug/L	U	F	1.9		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	129-00-0	Pyrene	N001	0.35	ug/L	J	F	0.35		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7782-49-2	Selenium	N001	6.3	ug/L	U	F	6.3		J	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-22-4	Silver	N001	0.93	ug/L	U	F	0.93		J	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-61-1	Uranium	N001	0.64	ug/L	JB	F	0.05		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	7440-61-1	Uranium	N002	0.7	ug/L	B	F	0.05		valid	G	STD
PLFSYSEFF	TS	7/10/2017	17078628	75-01-4	Vinyl chloride	N001	0.28	ug/L	J	F	0.1		valid	G	STD

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
PLFSYSEFF	TS	7/10/2017	17078628	7440-66-6	Zinc	N001	22	ug/L		F	4.5		valid	G	STD
GS13	SL	7/10/2017	17078631	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPIN	TS	7/10/2017	17078631	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	570	mg/L		F	1.9		valid	G	STD
SPIN	TS	7/10/2017	17078631	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	570	mg/L		D	1.9		valid	G	STD
SPIN	TS	7/10/2017	17078631	7440-61-1	Uranium	N001	75	ug/L		F	0.05		valid	G	STD
SPIN	TS	7/10/2017	17078631	7440-61-1	Uranium	N002	80	ug/L		D	0.05		valid	G	STD
SPOUT	TS	7/10/2017	17078631	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.15	mg/L		F	0.019		valid	G	STD
SPOUT	TS	7/10/2017	17078631	7440-61-1	Uranium	N001	52	ug/L		F	0.05		valid	G	STD
SPIN	TS	7/24/2017	17078651	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	560	mg/L		D	1.9		valid	G	STD
SPIN	TS	7/24/2017	17078651	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N003	570	mg/L		F	1.9		valid	G	STD
SPIN	TS	7/24/2017	17078651	7440-61-1	Uranium	N002	77	ug/L		D	0.05		valid	G	STD
SPIN	TS	7/24/2017	17078651	7440-61-1	Uranium	N003	80	ug/L		F	0.05		valid	G	STD
SPOUT	TS	7/24/2017	17078651	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPOUT	TS	7/24/2017	17078651	7440-61-1	Uranium	N001	52	ug/L		F	0.05		valid	G	STD
GS10	SL	7/10/2017	17088656	AM-241	Americium-241	N002	0.00614	pCi/L	U	F	0.0202	0.00852	valid	C	GEN
GS10	SL	7/10/2017	17088656	7440-41-7	Beryllium	N002	1	ug/L	U	F	1		valid	C	GEN
GS10	SL	7/10/2017	17088656	7440-43-9	Cadmium	N002	0.3	ug/L	U	F	0.3		valid	C	GEN
GS10	SL	7/10/2017	17088656	7440-47-3	Chromium	N002	1.14	ug/L	B	F	1		valid	C	GEN
GS10	SL	7/10/2017	17088656	HARDNESS	Hardness	N002	435	mg/L		F	1		valid	C	GEN
GS10	SL	7/10/2017	17088656	PU-239,240	Plutonium-239, 240	N002	-0.00319	pCi/L	U	F	0.0314	0.0159	valid	C	GEN
GS10	SL	7/10/2017	17088656	7440-22-4	Silver	N002	0.3	ug/L	U	F	0.3		valid	C	GEN
GS10	SL	7/10/2017	17088656	7440-61-1	Uranium	N002	7.14	ug/L		F	0.067		valid	C	GEN
80005	WL	8/8/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	8/8/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80005	WL	8/8/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80005	WL	8/8/2017	17088657	75-35-4	1,1-Dichloroethane	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
80005	WL	8/8/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80005	WL	8/8/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
80005	WL	8/8/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
80005	WL	8/8/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80005	WL	8/8/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
80005	WL	8/8/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
80005	WL	8/8/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
80005	WL	8/8/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	8/8/2017	17088657	105-67-9	2,4-Dimethylphenol	N001	0.55	ug/L	U	F	0.55		FQ	G	STD
80005	WL	8/8/2017	17088657	95-95-4	2,4,5-Trichlorophenol	N001	0.43	ug/L	U	F	0.43		FQ	G	STD
80005	WL	8/8/2017	17088657	88-06-2	2,4,6-Trichlorophenol	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80005	WL	8/8/2017	17088657	120-83-2	2,4-Dichlorophenol	N001	0.61	ug/L	U	F	0.61		FQ	G	STD
80005	WL	8/8/2017	17088657	51-28-5	2,4-Dinitrophenol	N001	9.5	ug/L	U	F	9.5		FQ	G	STD
80005	WL	8/8/2017	17088657	121-14-2	2,4-Dinitrotoluene	N001	1.6	ug/L	U	F	1.6		FQ	G	STD
80005	WL	8/8/2017	17088657	606-20-2	2,6-Dinitrotoluene	N001	1.8	ug/L	U	F	1.8		FQ	G	STD
80005	WL	8/8/2017	17088657	91-58-7	2-Chloronaphthalene	N001	0.25	ug/L	U	F	0.25		FQ	G	STD
80005	WL	8/8/2017	17088657	95-57-8	2-Chlorophenol	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80005	WL	8/8/2017	17088657	91-94-1	3,3-Dichlorobenzidine	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80005	WL	8/8/2017	17088657	534-52-1	4,6-Dinitro-2-methyl phenol	N001	3.8	ug/L	U	F	3.8		FQ	G	STD
80005	WL	8/8/2017	17088657	59-50-7	4-Chloro-3-methylphenol	N001	2.3	ug/L	U	F	2.3		FQ	G	STD
80005	WL	8/8/2017	17088657	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		FQ	G	STD
80005	WL	8/8/2017	17088657	83-32-9	Acenaphthene	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80005	WL	8/8/2017	17088657	120-12-7	Anthracene	N001	0.4	ug/L	U	F	0.4		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-38-2	Arsenic	N001	4.4	ug/L	U	F	4.4		FQ	G	STD
80005	WL	8/8/2017	17088657	56-55-3	Benz(a)anthracene	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
80005	WL	8/8/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	8/8/2017	17088657	50-32-8	Benzo(a)pyrene	N001	0.29	ug/L	U	F	0.29		FQ	G	STD
80005	WL	8/8/2017	17088657	205-99-2	Benzo(b)fluoranthene	N001	0.5	ug/L	U	F	0.5		FQ	G	STD
80005	WL	8/8/2017	17088657	191-24-2	Benzo(g,h,i)Perylene	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
80005	WL	8/8/2017	17088657	207-08-9	Benzo(k)fluoranthene	N001	0.44	ug/L	U	F	0.44		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-41-7	Beryllium	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
80005	WL	8/8/2017	17088657	111-44-4	Bis(2-chloroethyl) ether	N001	0.39	ug/L	U	F	0.39		FQ	G	STD
80005	WL	8/8/2017	17088657	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80005	WL	8/8/2017	17088657	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.53	ug/L	U	F	0.53		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-42-8	Boron	N001	46	ug/L		F	4.4		FQ	G	STD
80005	WL	8/8/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80005	WL	8/8/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80005	WL	8/8/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80005	WL	8/8/2017	17088657	85-68-7	Butyl benzyl phthalate	N001	0.95	ug/L	U	F	0.95		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-43-9	Cadmium	N001	0.45	ug/L	U	F	0.45		FQ	G	STD
80005	WL	8/8/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80005	WL	8/8/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80005	WL	8/8/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80005	WL	8/8/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	8/8/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-47-3	Chromium	N001	0.66	ug/L	U	F	0.66		FQ	G	STD
80005	WL	8/8/2017	17088657	218-01-9	Chrysene	N001	0.51	ug/L	U	F	0.51		FQ	G	STD
80005	WL	8/8/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-50-8	Copper	N001	4.2	ug/L	U	F	4.2		FQ	G	STD
80005	WL	8/8/2017	17088657	53-70-3	Dibenz(a,h)anthracene	N001	0.48	ug/L	U	F	0.48		FQ	G	STD
80005	WL	8/8/2017	17088657	84-66-2	Diethyl phthalate	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
80005	WL	8/8/2017	17088657	131-11-3	Dimethyl phthalate	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80005	WL	8/8/2017	17088657	84-74-2	Di-n-butyl phthalate	N001	1.1	ug/L	U	F	1.1		FQ	G	STD
80005	WL	8/8/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	8/8/2017	17088657	206-44-0	Fluoranthene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80005	WL	8/8/2017	17088657	86-73-7	Fluorene	N001	0.29	ug/L	U	F	0.29		FQ	G	STD
80005	WL	8/8/2017	17088657	118-74-1	Hexachlorobenzene	N001	0.63	ug/L	U	F	0.63		FQ	G	STD
80005	WL	8/8/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
80005	WL	8/8/2017	17088657	77-47-4	Hexachlorocyclopentadiene	N001	9.5	ug/L	U	F	9.5		FQ	G	STD

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
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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
80005	WL	8/8/2017	17088657	67-72-1	Hexachloroethane	N001	2	ug/L	U	F	2		FQ	G	STD
80005	WL	8/8/2017	17088657	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.62	ug/L	U	F	0.62		FQ	G	STD
80005	WL	8/8/2017	17088657	78-59-1	Isophorone	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80005	WL	8/8/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		FQ	G	STD
80005	WL	8/8/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
80005	WL	8/8/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
80005	WL	8/8/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		FQ	G	STD
80005	WL	8/8/2017	17088657	98-95-3	Nitrobenzene	N001	0.77	ug/L	U	F	0.77		FQ	G	STD
80005	WL	8/8/2017	17088657	621-64-7	N-Nitrosodi-n-propylamine	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
80005	WL	8/8/2017	17088657	86-30-6	N-Nitrosodiphenylamine	N001	0.42	ug/L	U	F	0.42		FQ	G	STD
80005	WL	8/8/2017	17088657	87-86-5	Pentachlorophenol	N001	19	ug/L	U	F	19		FQ	G	STD
80005	WL	8/8/2017	17088657	108-95-2	Phenol	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80005	WL	8/8/2017	17088657	129-00-0	Pyrene	N001	0.35	ug/L	U	F	0.35		FQ	G	STD
80005	WL	8/8/2017	17088657	7782-49-2	Selenium	0001	6.3	ug/L	U	F	6.3		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
80005	WL	8/8/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80005	WL	8/8/2017	17088657	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80005	WL	8/8/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80005	WL	8/8/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80005	WL	8/8/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80005	WL	8/8/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80005	WL	8/8/2017	17088657	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-61-1	Uranium	0001	7.5	ug/L	U	F	0.05		FQ	G	STD
80005	WL	8/8/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
80005	WL	8/8/2017	17088657	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ	G	STD
80105	WL	8/8/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	71-55-6	1,1,1-Trichloroethane	N002	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80105	WL	8/8/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N002	0.21	ug/L	U	D	0.21		FQ	G	STD
80105	WL	8/8/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80105	WL	8/8/2017	17088657	79-00-5	1,1,2-Trichloroethane	N002	0.27	ug/L	U	D	0.27		FQ	G	STD
80105	WL	8/8/2017	17088657	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
80105	WL	8/8/2017	17088657	75-35-4	1,1-Dichloroethene	N002	0.23	ug/L	U	D	0.23		FQ	G	STD
80105	WL	8/8/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80105	WL	8/8/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N002	0.21	ug/L	U	D	0.21		FQ	G	STD
80105	WL	8/8/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
80105	WL	8/8/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N002	0.47	ug/L	U	D	0.47		FQ	G	STD
80105	WL	8/8/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
80105	WL	8/8/2017	17088657	106-93-4	1,2-Dibromoethane	N002	0.18	ug/L	U	D	0.18		FQ	G	STD
80105	WL	8/8/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80105	WL	8/8/2017	17088657	95-50-1	1,2-Dichlorobenzene	N002	0.15	ug/L	U	D	0.15		FQ	G	STD
80105	WL	8/8/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
80105	WL	8/8/2017	17088657	107-06-2	1,2-Dichloroethane	N002	0.13	ug/L	U	D	0.13		FQ	G	STD
80105	WL	8/8/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
80105	WL	8/8/2017	17088657	78-87-5	1,2-Dichloropropane	N002	0.18	ug/L	U	D	0.18		FQ	G	STD
80105	WL	8/8/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
80105	WL	8/8/2017	17088657	541-73-1	1,3-Dichlorobenzene	N002	0.13	ug/L	U	D	0.13		FQ	G	STD
80105	WL	8/8/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	106-46-7	1,4-Dichlorobenzene	N002	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	105-67-9	2,4-Dimethylphenol	N001	0.55	ug/L	U	F	0.55		FQ	G	STD
80105	WL	8/8/2017	17088657	105-67-9	2,4-Dimethylphenol	N002	0.55	ug/L	U	D	0.55		FQ	G	STD
80105	WL	8/8/2017	17088657	95-95-4	2,4,5-Trichlorophenol	N001	0.43	ug/L	U	F	0.43		FQ	G	STD
80105	WL	8/8/2017	17088657	95-95-4	2,4,5-Trichlorophenol	N002	0.43	ug/L	U	D	0.43		FQ	G	STD
80105	WL	8/8/2017	17088657	88-06-2	2,4,6-Trichlorophenol	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80105	WL	8/8/2017	17088657	88-06-2	2,4,6-Trichlorophenol	N002	0.27	ug/L	U	D	0.27		FQ	G	STD
80105	WL	8/8/2017	17088657	120-83-2	2,4-Dichlorophenol	N001	0.61	ug/L	U	F	0.61		FQ	G	STD
80105	WL	8/8/2017	17088657	120-83-2	2,4-Dichlorophenol	N002	0.61	ug/L	U	D	0.61		FQ	G	STD
80105	WL	8/8/2017	17088657	51-28-5	2,4-Dinitrophenol	N001	9.5	ug/L	U	F	9.5		FQ	G	STD
80105	WL	8/8/2017	17088657	51-28-5	2,4-Dinitrophenol	N002	9.5	ug/L	U	D	9.5		FQ	G	STD
80105	WL	8/8/2017	17088657	121-14-2	2,4-Dinitrotoluene	N001	1.6	ug/L	U	F	1.6		FQ	G	STD
80105	WL	8/8/2017	17088657	121-14-2	2,4-Dinitrotoluene	N002	1.6	ug/L	U	D	1.6		FQ	G	STD
80105	WL	8/8/2017	17088657	606-20-2	2,6-Dinitrotoluene	N001	1.8	ug/L	U	F	1.8		FQ	G	STD
80105	WL	8/8/2017	17088657	606-20-2	2,6-Dinitrotoluene	N002	1.8	ug/L	U	D	1.8		FQ	G	STD
80105	WL	8/8/2017	17088657	91-58-7	2-Chloronaphthalene	N001	0.25	ug/L	U	F	0.25		FQ	G	STD
80105	WL	8/8/2017	17088657	91-58-7	2-Chloronaphthalene	N002	0.25	ug/L	U	D	0.25		FQ	G	STD
80105	WL	8/8/2017	17088657	95-57-8	2-Chlorophenol	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80105	WL	8/8/2017	17088657	95-57-8	2-Chlorophenol	N002	1.9	ug/L	U	D	1.9		FQ	G	STD
80105	WL	8/8/2017	17088657	91-94-1	3,3'-Dichlorobenzidine	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80105	WL	8/8/2017	17088657	91-94-1	3,3'-Dichlorobenzidine	N002	1.9	ug/L	U	D	1.9		FQ	G	STD
80105	WL	8/8/2017	17088657	534-52-1	4,6-Dinitro-2-methyl phenol	N001	3.8	ug/L	U	F	3.8		FQ	G	STD
80105	WL	8/8/2017	17088657	534-52-1	4,6-Dinitro-2-methyl phenol	N002	3.8	ug/L	U	D	3.8		FQ	G	STD
80105	WL	8/8/2017	17088657	59-50-7	4-Chloro-3-methylphenol	N001	2.3	ug/L	U	F	2.3		FQ	G	STD
80105	WL	8/8/2017	17088657	59-50-7	4-Chloro-3-methylphenol	N002	2.3	ug/L	U	D	2.3		FQ	G	STD
80105	WL	8/8/2017	17088657	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		FQ	G	STD
80105	WL	8/8/2017	17088657	100-02-7	4-Nitrophenol	N002	1.2	ug/L	U	D	1.2		FQ	G	STD
80105	WL	8/8/2017	17088657	83-32-9	Acenaphthene	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80105	WL	8/8/2017	17088657	83-32-9	Acenaphthene	N002	0.27	ug/L	U	D	0.27		FQ	G	STD
80105	WL	8/8/2017	17088657	120-12-7	Anthracene	N001	0.4	ug/L	U	F	0.4		FQ	G	STD
80105	WL	8/8/2017	17088657	120-12-7	Anthracene	N002	0.4	ug/L	U	D	0.4		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-38-2	Arsenic	0001	4.5	ug/L	J	F	4.4		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-38-2	Arsenic	0002	4.4	ug/L	U	D	4.4		FQ	G	STD
80105	WL	8/8/2017	17088657	56-55-3	Benz(a)anthracene	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
80105	WL	8/8/2017	17088657	56-55-3	Benz(a)anthracene	N002	0.33	ug/L	U	D	0.33		FQ	G	STD
80105	WL	8/8/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	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
80105	WL	8/8/2017	17088657	71-43-2	Benzene	N002	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	50-32-8	Benzo(a)pyrene	N001	0.29	ug/L	U	F	0.29		FQ	G	STD
80105	WL	8/8/2017	17088657	50-32-8	Benzo(a)pyrene	N002	0.29	ug/L	U	D	0.29		FQ	G	STD
80105	WL	8/8/2017	17088657	205-99-2	Benzo(b)fluoranthene	N001	0.5	ug/L	U	F	0.5		FQ	G	STD
80105	WL	8/8/2017	17088657	205-99-2	Benzo(b)fluoranthene	N002	0.5	ug/L	U	D	0.5		FQ	G	STD
80105	WL	8/8/2017	17088657	191-24-2	Benzo(g,h,i)Perylene	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
80105	WL	8/8/2017	17088657	191-24-2	Benzo(g,h,i)Perylene	N002	0.47	ug/L	U	D	0.47		FQ	G	STD
80105	WL	8/8/2017	17088657	207-08-9	Benzo(k)fluoranthene	N001	0.44	ug/L	U	F	0.44		FQ	G	STD
80105	WL	8/8/2017	17088657	207-08-9	Benzo(k)fluoranthene	N002	0.44	ug/L	U	D	0.44		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-41-7	Beryllium	0002	0.47	ug/L	U	D	0.47		FQ	G	STD
80105	WL	8/8/2017	17088657	111-44-4	Bis(2-chloroethyl) ether	N001	0.39	ug/L	U	F	0.39		FQ	G	STD
80105	WL	8/8/2017	17088657	111-44-4	Bis(2-chloroethyl) ether	N002	0.39	ug/L	U	D	0.39		FQ	G	STD
80105	WL	8/8/2017	17088657	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80105	WL	8/8/2017	17088657	108-60-1	Bis(2-chloroisopropyl) ether	N002	0.27	ug/L	U	D	0.27		FQ	G	STD
80105	WL	8/8/2017	17088657	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.53	ug/L	U	F	0.53		FQ	G	STD
80105	WL	8/8/2017	17088657	117-81-7	Bis(2-ethylhexyl) phthalate	N002	0.53	ug/L	U	D	0.53		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-42-8	Boron	0001	140	ug/L	U	F	4.4		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-42-8	Boron	0002	140	ug/L	U	D	4.4		FQ	G	STD
80105	WL	8/8/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	75-27-4	Bromodichloromethane	N002	0.17	ug/L	U	D	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	75-25-2	Bromoform	N002	0.19	ug/L	U	D	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80105	WL	8/8/2017	17088657	74-83-9	Bromomethane	N002	0.21	ug/L	U	D	0.21		FQ	G	STD
80105	WL	8/8/2017	17088657	85-68-7	Butyl benzyl phthalate	N001	0.95	ug/L	U	F	0.95		FQ	G	STD
80105	WL	8/8/2017	17088657	85-68-7	Butyl benzyl phthalate	N002	0.95	ug/L	U	D	0.95		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-43-9	Cadmium	0002	0.45	ug/L	U	D	0.45		FQ	G	STD
80105	WL	8/8/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	56-23-5	Carbon tetrachloride	N002	0.19	ug/L	U	D	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	108-90-7	Chlorobenzene	N002	0.17	ug/L	U	D	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	124-48-1	Chlorodibromomethane	N002	0.17	ug/L	U	D	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	67-66-3	Chloroform	N002	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
80105	WL	8/8/2017	17088657	74-87-3	Chloromethane	N002	0.3	ug/L	U	D	0.3		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-47-3	Chromium	0002	0.66	ug/L	U	D	0.66		FQ	G	STD
80105	WL	8/8/2017	17088657	218-01-9	Chrysene	N001	0.51	ug/L	U	F	0.51		FQ	G	STD
80105	WL	8/8/2017	17088657	218-01-9	Chrysene	N002	0.51	ug/L	U	D	0.51		FQ	G	STD
80105	WL	8/8/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80105	WL	8/8/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N002	0.15	ug/L	U	D	0.15		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-50-8	Copper	0002	4.2	ug/L	U	D	4.2		FQ	G	STD
80105	WL	8/8/2017	17088657	53-70-3	Dibenz(a,h)anthracene	N001	0.48	ug/L	U	F	0.48		FQ	G	STD
80105	WL	8/8/2017	17088657	53-70-3	Dibenz(a,h)anthracene	N002	0.48	ug/L	U	D	0.48		FQ	G	STD
80105	WL	8/8/2017	17088657	84-66-2	Diethyl phthalate	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
80105	WL	8/8/2017	17088657	84-66-2	Diethyl phthalate	N002	0.36	ug/L	U	D	0.36		FQ	G	STD
80105	WL	8/8/2017	17088657	131-11-3	Dimethyl phthalate	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80105	WL	8/8/2017	17088657	131-11-3	Dimethyl phthalate	N002	0.2	ug/L	U	D	0.2		FQ	G	STD
80105	WL	8/8/2017	17088657	84-74-2	Di-n-butyl phthalate	N001	1.1	ug/L	U	F	1.1		FQ	G	STD
80105	WL	8/8/2017	17088657	84-74-2	Di-n-butyl phthalate	N002	1.1	ug/L	U	D	1.1		FQ	G	STD
80105	WL	8/8/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	100-41-4	Ethylbenzene	N002	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	206-44-0	Fluoranthene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	206-44-0	Fluoranthene	N002	0.19	ug/L	U	D	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	86-73-7	Fluorene	N001	0.29	ug/L	U	F	0.29		FQ	G	STD
80105	WL	8/8/2017	17088657	86-73-7	Fluorene	N002	0.29	ug/L	U	D	0.29		FQ	G	STD
80105	WL	8/8/2017	17088657	118-74-1	Hexachlorobenzene	N001	0.62	ug/L	U	F	0.62		FQ	G	STD
80105	WL	8/8/2017	17088657	118-74-1	Hexachlorobenzene	N002	0.62	ug/L	U	D	0.62		FQ	G	STD
80105	WL	8/8/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
80105	WL	8/8/2017	17088657	87-68-3	Hexachlorobutadiene	N002	0.36	ug/L	U	D	0.36		FQ	G	STD
80105	WL	8/8/2017	17088657	77-47-4	Hexachlorocyclopentadiene	N001	9.5	ug/L	U	F	9.5		FQ	G	STD
80105	WL	8/8/2017	17088657	77-47-4	Hexachlorocyclopentadiene	N002	9.5	ug/L	U	D	9.5		FQ	G	STD
80105	WL	8/8/2017	17088657	67-72-1	Hexachloroethane	N001	2	ug/L	U	F	2		FQ	G	STD
80105	WL	8/8/2017	17088657	67-72-1	Hexachloroethane	N002	2	ug/L	U	D	2		FQ	G	STD
80105	WL	8/8/2017	17088657	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.62	ug/L	U	F	0.62		FQ	G	STD
80105	WL	8/8/2017	17088657	193-39-5	Indeno(1,2,3-cd)pyrene	N002	0.62	ug/L	U	D	0.62		FQ	G	STD
80105	WL	8/8/2017	17088657	78-59-1	Isophorone	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80105	WL	8/8/2017	17088657	78-59-1	Isophorone	N002	0.2	ug/L	U	D	0.2		FQ	G	STD
80105	WL	8/8/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		FQ	G	STD
80105	WL	8/8/2017	17088657	7439-92-1	Lead	0002	2.7	ug/L	U	D	2.7		FQ	G	STD
80105	WL	8/8/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
80105	WL	8/8/2017	17088657	7439-97-6	Mercury	0002	0.027	ug/L	U	D	0.027		FQ	G	STD
80105	WL	8/8/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
80105	WL	8/8/2017	17088657	75-09-2	Methylene chloride	N002	0.32	ug/L	U	D	0.32		FQ	G	STD
80105	WL	8/8/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
80105	WL	8/8/2017	17088657	91-20-3	Naphthalene	N002	0.22	ug/L	U	D	0.22		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-02-0	Nickel	0002	2.6	ug/L	U	D	2.6		FQ	G	STD
80105	WL	8/8/2017	17088657	98-95-3	Nitrobenzene	N001	0.77	ug/L	U	F	0.77		FQ	G	STD
80105	WL	8/8/2017	17088657	98-95-3	Nitrobenzene	N002	0.77	ug/L	U	D	0.77		FQ	G	STD

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
80105	WL	8/8/2017	17088657	621-64-7	N-Nitrosodi-n-propylamine	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
80105	WL	8/8/2017	17088657	621-64-7	N-Nitrosodi-n-propylamine	N002	0.33	ug/L	U	D	0.33		FQ	G	STD
80105	WL	8/8/2017	17088657	86-30-6	N-Nitrosodiphenylamine	N001	0.42	ug/L	U	F	0.42		FQ	G	STD
80105	WL	8/8/2017	17088657	86-30-6	N-Nitrosodiphenylamine	N002	0.42	ug/L	U	D	0.42		FQ	G	STD
80105	WL	8/8/2017	17088657	87-86-5	Pentachlorophenol	N001	19	ug/L	U	F	19		FQ	G	STD
80105	WL	8/8/2017	17088657	87-86-5	Pentachlorophenol	N002	19	ug/L	U	D	19		FQ	G	STD
80105	WL	8/8/2017	17088657	108-95-2	Phenol	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80105	WL	8/8/2017	17088657	108-95-2	Phenol	N002	1.9	ug/L	U	D	1.9		FQ	G	STD
80105	WL	8/8/2017	17088657	129-00-0	Pyrene	N001	0.35	ug/L	U	F	0.35		FQ	G	STD
80105	WL	8/8/2017	17088657	129-00-0	Pyrene	N002	0.35	ug/L	U	D	0.35		FQ	G	STD
80105	WL	8/8/2017	17088657	7782-49-2	Selenium	0001	6.3	ug/L	U	F	6.3		FQ	G	STD
80105	WL	8/8/2017	17088657	7782-49-2	Selenium	0002	6.3	ug/L	U	D	6.3		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-22-4	Silver	0002	0.93	ug/L	U	D	0.93		FQ	G	STD
80105	WL	8/8/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	100-42-5	Styrene	N002	0.17	ug/L	U	D	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80105	WL	8/8/2017	17088657	127-18-4	Tetrachloroethene	N002	0.2	ug/L	U	D	0.2		FQ	G	STD
80105	WL	8/8/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	108-88-3	Toluene	N002	0.17	ug/L	U	D	0.17		FQ	G	STD
80105	WL	8/8/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	1330-20-7	Total Xylenes	N002	0.19	ug/L	U	D	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80105	WL	8/8/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N002	0.15	ug/L	U	D	0.15		FQ	G	STD
80105	WL	8/8/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N002	0.19	ug/L	U	D	0.19		FQ	G	STD
80105	WL	8/8/2017	17088657	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	79-01-6	Trichloroethene	N002	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-61-1	Uranium	0001	6.9	ug/L		F	0.05		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-61-1	Uranium	0002	7.5	ug/L		D	0.05		FQ	G	STD
80105	WL	8/8/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
80105	WL	8/8/2017	17088657	75-01-4	Vinyl chloride	N002	0.1	ug/L	U	D	0.1		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ	G	STD
80105	WL	8/8/2017	17088657	7440-66-6	Zinc	0002	4.5	ug/L	U	D	4.5		FQ	G	STD
80205	WL	8/8/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80205	WL	8/8/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80205	WL	8/8/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80205	WL	8/8/2017	17088657	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
80205	WL	8/8/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80205	WL	8/8/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
80205	WL	8/8/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
80205	WL	8/8/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80205	WL	8/8/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
80205	WL	8/8/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
80205	WL	8/8/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
80205	WL	8/8/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	8/8/2017	17088657	105-67-9	2, 4-Dimethylphenol	N001	0.55	ug/L	U	F	0.55		FQ	G	STD
80205	WL	8/8/2017	17088657	95-95-4	2,4,5-Trichlorophenol	N001	0.43	ug/L	U	F	0.43		FQ	G	STD
80205	WL	8/8/2017	17088657	88-06-2	2,4,6-Trichlorophenol	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
80205	WL	8/8/2017	17088657	120-83-2	2,4-Dichlorophenol	N001	0.61	ug/L	U	F	0.61		FQ	G	STD
80205	WL	8/8/2017	17088657	51-28-5	2,4-Dinitrophenol	N001	9.5	ug/L	U	F	9.5		FQ	G	STD
80205	WL	8/8/2017	17088657	121-14-2	2,4-Dinitrotoluene	N001	1.6	ug/L	U	F	1.6		FQ	G	STD
80205	WL	8/8/2017	17088657	606-20-2	2,6-Dinitrotoluene	N001	1.8	ug/L	U	F	1.8		FQ	G	STD
80205	WL	8/8/2017	17088657	91-58-7	2-Chloronaphthalene	N001	0.25	ug/L	U	F	0.25		FQ	G	STD
80205	WL	8/8/2017	17088657	95-57-8	2-Chlorophenol	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80205	WL	8/8/2017	17088657	91-94-1	3,3-Dichlorobenzidine	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80205	WL	8/8/2017	17088657	534-52-1	4,6-Dinitro-2-methyl phenol	N001	3.8	ug/L	U	F	3.8		FQ	G	STD
80205	WL	8/8/2017	17088657	59-50-7	4-Chloro-3-methylphenol	N001	2.3	ug/L	U	F	2.3		FQ	G	STD
80205	WL	8/8/2017	17088657	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		FQ	G	STD
80205	WL	8/8/2017	17088657	83-32-9	Acenaphthene	N001	0.26	ug/L	U	F	0.26		FQ	G	STD
80205	WL	8/8/2017	17088657	120-12-7	Anthracene	N001	0.4	ug/L	U	F	0.4		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ	G	STD
80205	WL	8/8/2017	17088657	56-55-3	Benz(a)anthracene	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
80205	WL	8/8/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	8/8/2017	17088657	50-32-8	Benzo(a)pyrene	N001	0.29	ug/L	U	F	0.29		FQ	G	STD
80205	WL	8/8/2017	17088657	205-99-2	Benzo(b)fluoranthene	N001	0.5	ug/L	U	F	0.5		FQ	G	STD
80205	WL	8/8/2017	17088657	191-24-2	Benzo(g,h,i)Perylene	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
80205	WL	8/8/2017	17088657	207-08-9	Benzo(k)fluoranthene	N001	0.44	ug/L	U	F	0.44		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ	G	STD
80205	WL	8/8/2017	17088657	111-44-4	Bis(2-chloroethyl) ether	N001	0.39	ug/L	U	F	0.39		FQ	G	STD
80205	WL	8/8/2017	17088657	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.26	ug/L	U	F	0.26		FQ	G	STD
80205	WL	8/8/2017	17088657	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.53	ug/L	U	F	0.53		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-42-8	Boron	0001	95	ug/L	U	F	4.4		FQ	G	STD
80205	WL	8/8/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80205	WL	8/8/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80205	WL	8/8/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
80205	WL	8/8/2017	17088657	85-68-7	Butyl benzyl phthalate	N001	0.95	ug/L	U	F	0.95		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		FQ	G	STD
80205	WL	8/8/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80205	WL	8/8/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80205	WL	8/8/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80205	WL	8/8/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	8/8/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ	G	STD
80205	WL	8/8/2017	17088657	218-01-9	Chrysene	N001	0.51	ug/L	U	F	0.51		FQ	G	STD

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RFLMA Data

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
80205	WL	8/8/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		FQ	G	STD
80205	WL	8/8/2017	17088657	53-70-3	Dibenz(a,h)anthracene	N001	0.48	ug/L	U	F	0.48		FQ	G	STD
80205	WL	8/8/2017	17088657	84-66-2	Diethyl phthalate	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
80205	WL	8/8/2017	17088657	131-11-3	Dimethyl phthalate	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80205	WL	8/8/2017	17088657	84-74-2	Di-n-butyl phthalate	N001	1.1	ug/L	U	F	1.1		FQ	G	STD
80205	WL	8/8/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	8/8/2017	17088657	206-44-0	Fluoranthene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80205	WL	8/8/2017	17088657	86-73-7	Fluorene	N001	0.29	ug/L	U	F	0.29		FQ	G	STD
80205	WL	8/8/2017	17088657	118-74-1	Hexachlorobenzene	N001	0.62	ug/L	U	F	0.62		FQ	G	STD
80205	WL	8/8/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
80205	WL	8/8/2017	17088657	77-47-4	Hexachlorocyclopentadiene	N001	9.5	ug/L	U	F	9.5		FQ	G	STD
80205	WL	8/8/2017	17088657	67-72-1	Hexachloroethane	N001	2	ug/L	U	F	2		FQ	G	STD
80205	WL	8/8/2017	17088657	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.62	ug/L	U	F	0.62		FQ	G	STD
80205	WL	8/8/2017	17088657	78-59-1	Isophorone	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80205	WL	8/8/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		FQ	G	STD
80205	WL	8/8/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
80205	WL	8/8/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
80205	WL	8/8/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-02-0	Nickel	0001	5.8	ug/L	J	F	2.6		FQ	G	STD
80205	WL	8/8/2017	17088657	98-95-3	Nitrobenzene	N001	0.77	ug/L	U	F	0.77		FQ	G	STD
80205	WL	8/8/2017	17088657	621-64-7	N-Nitrosodi-n-propylamine	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
80205	WL	8/8/2017	17088657	86-30-6	N-Nitrosodiphenylamine	N001	0.42	ug/L	U	F	0.42		FQ	G	STD
80205	WL	8/8/2017	17088657	87-86-5	Pentachlorophenol	N001	19	ug/L	U	F	19		FQ	G	STD
80205	WL	8/8/2017	17088657	108-95-2	Phenol	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
80205	WL	8/8/2017	17088657	129-00-0	Pyrene	N001	0.35	ug/L	U	F	0.35		FQ	G	STD
80205	WL	8/8/2017	17088657	7782-49-2	Selenium	0001	7.5	ug/L	JB	F	6.3		UFQ	G	STD
80205	WL	8/8/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
80205	WL	8/8/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80205	WL	8/8/2017	17088657	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
80205	WL	8/8/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
80205	WL	8/8/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80205	WL	8/8/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
80205	WL	8/8/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
80205	WL	8/8/2017	17088657	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-61-1	Uranium	0001	64	ug/L	U	F	0.05		FQ	G	STD
80205	WL	8/8/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
80205	WL	8/8/2017	17088657	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ	G	STD
70193	WL	8/9/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	8/9/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
70193	WL	8/9/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
70193	WL	8/9/2017	17088657	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
70193	WL	8/9/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
70193	WL	8/9/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
70193	WL	8/9/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
70193	WL	8/9/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
70193	WL	8/9/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
70193	WL	8/9/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
70193	WL	8/9/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
70193	WL	8/9/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ	G	STD
70193	WL	8/9/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-42-8	Boron	0001	16	ug/L	J	F	4.4		FQ	G	STD
70193	WL	8/9/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70193	WL	8/9/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
70193	WL	8/9/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		FQ	G	STD
70193	WL	8/9/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
70193	WL	8/9/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70193	WL	8/9/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70193	WL	8/9/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	8/9/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ	G	STD
70193	WL	8/9/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		FQ	G	STD
70193	WL	8/9/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	8/9/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
70193	WL	8/9/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		FQ	G	STD
70193	WL	8/9/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
70193	WL	8/9/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
70193	WL	8/9/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		FQ	G	STD
70193	WL	8/9/2017	17088657	7782-49-2	Selenium	0001	15	ug/L	JB	F	6.3		UFQ	G	STD
70193	WL	8/9/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
70193	WL	8/9/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70193	WL	8/9/2017	17088657	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
70193	WL	8/9/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70193	WL	8/9/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
70193	WL	8/9/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
70193	WL	8/9/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
70193	WL	8/9/2017	17088657	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-61-1	Uranium	0001	0.058	ug/L	J	F	0.05		UFQ	G	STD
70193	WL	8/9/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
70193	WL	8/9/2017	17088657	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ	G	STD

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
70393	WL	8/9/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.23	ug/L	J	F	0.16		FQ	G	STD
70393	WL	8/9/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
70393	WL	8/9/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
70393	WL	8/9/2017	17088657	75-35-4	1,1-Dichloroethene	N001	0.79	ug/L	J	F	0.23		FQ	G	STD
70393	WL	8/9/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
70393	WL	8/9/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
70393	WL	8/9/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
70393	WL	8/9/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
70393	WL	8/9/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
70393	WL	8/9/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
70393	WL	8/9/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
70393	WL	8/9/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ	G	STD
70393	WL	8/9/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-42-8	Boron	0001	8.3	ug/L	J	F	4.4		FQ	G	STD
70393	WL	8/9/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70393	WL	8/9/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
70393	WL	8/9/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		FQ	G	STD
70393	WL	8/9/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
70393	WL	8/9/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70393	WL	8/9/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70393	WL	8/9/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	8/9/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ	G	STD
70393	WL	8/9/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		FQ	G	STD
70393	WL	8/9/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	8/9/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
70393	WL	8/9/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		FQ	G	STD
70393	WL	8/9/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
70393	WL	8/9/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
70393	WL	8/9/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		FQ	G	STD
70393	WL	8/9/2017	17088657	7782-49-2	Selenium	0001	6.3	ug/L	U	F	6.3		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
70393	WL	8/9/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70393	WL	8/9/2017	17088657	127-18-4	Tetrachloroethene	N001	0.75	ug/L	J	F	0.2		FQ	G	STD
70393	WL	8/9/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
70393	WL	8/9/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
70393	WL	8/9/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
70393	WL	8/9/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
70393	WL	8/9/2017	17088657	79-01-6	Trichloroethene	N001	3.4	ug/L	U	F	0.16		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-61-1	Uranium	0001	0.05	ug/L	U	F	0.05		FQ	G	STD
70393	WL	8/9/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
70393	WL	8/9/2017	17088657	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ	G	STD
70693	WL	8/9/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.39	ug/L	J	F	0.16		F	G	STD
70693	WL	8/9/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		F	G	STD
70693	WL	8/9/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		F	G	STD
70693	WL	8/9/2017	17088657	75-35-4	1,1-Dichloroethene	N001	1.1	ug/L	U	F	0.23		F	G	STD
70693	WL	8/9/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		F	G	STD
70693	WL	8/9/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		F	G	STD
70693	WL	8/9/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		F	G	STD
70693	WL	8/9/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		F	G	STD
70693	WL	8/9/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		F	G	STD
70693	WL	8/9/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		F	G	STD
70693	WL	8/9/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		F	G	STD
70693	WL	8/9/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
70693	WL	8/9/2017	17088657	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		F	G	STD
70693	WL	8/9/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
70693	WL	8/9/2017	17088657	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		F	G	STD
70693	WL	8/9/2017	17088657	7440-42-8	Boron	0001	27	ug/L	J	F	4.4		F	G	STD
70693	WL	8/9/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		F	G	STD
70693	WL	8/9/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		F	G	STD
70693	WL	8/9/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		F	G	STD
70693	WL	8/9/2017	17088657	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		F	G	STD
70693	WL	8/9/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		F	G	STD
70693	WL	8/9/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		F	G	STD
70693	WL	8/9/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		F	G	STD
70693	WL	8/9/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		F	G	STD
70693	WL	8/9/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		F	G	STD
70693	WL	8/9/2017	17088657	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		F	G	STD
70693	WL	8/9/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F	G	STD
70693	WL	8/9/2017	17088657	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		F	G	STD
70693	WL	8/9/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		F	G	STD
70693	WL	8/9/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		F	G	STD
70693	WL	8/9/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		F	G	STD
70693	WL	8/9/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		F	G	STD
70693	WL	8/9/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		F	G	STD
70693	WL	8/9/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		F	G	STD
70693	WL	8/9/2017	17088657	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		F	G	STD
70693	WL	8/9/2017	17088657	7782-49-2	Selenium	0001	6.3	ug/L	U	F	6.3		F	G	STD
70693	WL	8/9/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		F	G	STD
70693	WL	8/9/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		F	G	STD

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
70693	WL	8/9/2017	17088657	127-18-4	Tetrachloroethene	N001	0.5	ug/L	J	F	0.2		F	G	STD
70693	WL	8/9/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		F	G	STD
70693	WL	8/9/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		F	G	STD
70693	WL	8/9/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		F	G	STD
70693	WL	8/9/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		F	G	STD
70693	WL	8/9/2017	17088657	79-01-6	Trichloroethene	N001	2	ug/L		F	0.16		F	G	STD
70693	WL	8/9/2017	17088657	7440-61-1	Uranium	0001	0.05	ug/L	U	F	0.05		F	G	STD
70693	WL	8/9/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		F	G	STD
70693	WL	8/9/2017	17088657	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		F	G	STD
73205	WL	8/9/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	8/9/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73205	WL	8/9/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
73205	WL	8/9/2017	17088657	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
73205	WL	8/9/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73205	WL	8/9/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
73205	WL	8/9/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
73205	WL	8/9/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73205	WL	8/9/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
73205	WL	8/9/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
73205	WL	8/9/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
73205	WL	8/9/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-38-2	Arsenic	0001	4.4	ug/L	J	F	4.4		FQ	G	STD
73205	WL	8/9/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-42-8	Boron	0001	56	ug/L		F	4.4		FQ	G	STD
73205	WL	8/9/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73205	WL	8/9/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73205	WL	8/9/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		FQ	G	STD
73205	WL	8/9/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73205	WL	8/9/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73205	WL	8/9/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73205	WL	8/9/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	8/9/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ	G	STD
73205	WL	8/9/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		FQ	G	STD
73205	WL	8/9/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	8/9/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
73205	WL	8/9/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		FQ	G	STD
73205	WL	8/9/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
73205	WL	8/9/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
73205	WL	8/9/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		FQ	G	STD
73205	WL	8/9/2017	17088657	7782-49-2	Selenium	0001	370	ug/L	B	F	6.3		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
73205	WL	8/9/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73205	WL	8/9/2017	17088657	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
73205	WL	8/9/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73205	WL	8/9/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73205	WL	8/9/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73205	WL	8/9/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73205	WL	8/9/2017	17088657	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-61-1	Uranium	0001	110	ug/L		F	0.05		FQ	G	STD
73205	WL	8/9/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
73205	WL	8/9/2017	17088657	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ	G	STD
73005	WL	8/10/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	8/10/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73005	WL	8/10/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
73005	WL	8/10/2017	17088657	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
73005	WL	8/10/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73005	WL	8/10/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
73005	WL	8/10/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
73005	WL	8/10/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73005	WL	8/10/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
73005	WL	8/10/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
73005	WL	8/10/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
73005	WL	8/10/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ	G	STD
73005	WL	8/10/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-42-8	Boron	0001	28	ug/L	J	F	4.4		FQ	G	STD
73005	WL	8/10/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73005	WL	8/10/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73005	WL	8/10/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		FQ	G	STD
73005	WL	8/10/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73005	WL	8/10/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73005	WL	8/10/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73005	WL	8/10/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	8/10/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-47-3	Chromium	0001	2.5	ug/L	J	F	0.66		FQ	G	STD
73005	WL	8/10/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		FQ	G	STD
73005	WL	8/10/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
73005	WL	8/10/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
73005	WL	8/10/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		FQ	G	STD
73005	WL	8/10/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
73005	WL	8/10/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
73005	WL	8/10/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		FQ	G	STD
73005	WL	8/10/2017	17088657	7782-49-2	Selenium	0001	8.3	ug/L	JB	F	6.3		UFQ	G	STD
73005	WL	8/10/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
73005	WL	8/10/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73005	WL	8/10/2017	17088657	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
73005	WL	8/10/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73005	WL	8/10/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73005	WL	8/10/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73005	WL	8/10/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73005	WL	8/10/2017	17088657	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-61-1	Uranium	0001	47	ug/L	U	F	0.05		FQ	G	STD
73005	WL	8/10/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
73005	WL	8/10/2017	17088657	7440-66-6	Zinc	0001	6.5	ug/L	J	F	4.5		FQ	G	STD
73105	WL	8/10/2017	17088657	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	8/10/2017	17088657	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73105	WL	8/10/2017	17088657	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
73105	WL	8/10/2017	17088657	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
73105	WL	8/10/2017	17088657	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73105	WL	8/10/2017	17088657	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
73105	WL	8/10/2017	17088657	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
73105	WL	8/10/2017	17088657	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73105	WL	8/10/2017	17088657	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
73105	WL	8/10/2017	17088657	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
73105	WL	8/10/2017	17088657	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
73105	WL	8/10/2017	17088657	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ	G	STD
73105	WL	8/10/2017	17088657	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-42-8	Boron	0001	120	ug/L	U	F	4.4		FQ	G	STD
73105	WL	8/10/2017	17088657	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73105	WL	8/10/2017	17088657	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73105	WL	8/10/2017	17088657	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		FQ	G	STD
73105	WL	8/10/2017	17088657	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73105	WL	8/10/2017	17088657	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73105	WL	8/10/2017	17088657	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73105	WL	8/10/2017	17088657	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	8/10/2017	17088657	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-47-3	Chromium	0001	0.66	ug/L	U	F	0.66		FQ	G	STD
73105	WL	8/10/2017	17088657	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		FQ	G	STD
73105	WL	8/10/2017	17088657	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	8/10/2017	17088657	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
73105	WL	8/10/2017	17088657	7439-92-1	Lead	0001	2.7	ug/L	U	F	2.7		FQ	G	STD
73105	WL	8/10/2017	17088657	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
73105	WL	8/10/2017	17088657	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
73105	WL	8/10/2017	17088657	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		FQ	G	STD
73105	WL	8/10/2017	17088657	7782-49-2	Selenium	0001	6.3	ug/L	U	F	6.3		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
73105	WL	8/10/2017	17088657	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73105	WL	8/10/2017	17088657	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
73105	WL	8/10/2017	17088657	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
73105	WL	8/10/2017	17088657	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73105	WL	8/10/2017	17088657	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
73105	WL	8/10/2017	17088657	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
73105	WL	8/10/2017	17088657	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-61-1	Uranium	0001	21	ug/L	U	F	0.05		FQ	G	STD
73105	WL	8/10/2017	17088657	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
73105	WL	8/10/2017	17088657	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	71-43-2	Benzene	N001	0.62	ug/L	J	F	0.16		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	108-90-7	Chlorobenzene	N001	0.18	ug/L	J	F	0.17		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid	G	STD

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
PLFSYSEFF	TS	8/7/2017	17088661	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	91-20-3	Naphthalene	N001	6.8	ug/L		F	0.22		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid	G	STD
PLFSYSEFF	TS	8/7/2017	17088661	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		valid	G	STD
SPIN	TS	8/9/2017	17088662	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	540	mg/L		F	1.9		valid	G	STD
SPIN	TS	8/9/2017	17088662	7440-61-1	Uranium	N001	73	ug/L		F	0.05		valid	G	STD
SPOUT	TS	8/9/2017	17088662	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.086	mg/L		F	0.019		valid	G	STD
SPOUT	TS	8/9/2017	17088662	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N002	0.087	mg/L		D	0.019		valid	G	STD
SPOUT	TS	8/9/2017	17088662	7440-61-1	Uranium	N001	65	ug/L		F	0.05		valid	G	STD
SPOUT	TS	8/9/2017	17088662	7440-61-1	Uranium	N002	65	ug/L		D	0.05		valid	G	STD
SPIN	TS	8/21/2017	17088676	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	610	mg/L		F	1.9		valid	G	STD
SPIN	TS	8/21/2017	17088676	7440-61-1	Uranium	N001	76	ug/L		F	0.05		valid	G	STD
SPOUT	TS	8/21/2017	17088676	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPOUT	TS	8/21/2017	17088676	7440-61-1	Uranium	N001	62	ug/L		F	0.05		valid	G	STD
GS10	SL	8/1/2017	17088678	AM-241	Americium-241	N001	-0.00127	pCi/L	U	F	0.0147	0.00895	valid	C	GEN
GS10	SL	8/1/2017	17088678	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		valid	C	GEN
GS10	SL	8/1/2017	17088678	7440-43-9	Cadmium	0001	0.3	ug/L	U	F	0.3		valid	C	GEN
GS10	SL	8/1/2017	17088678	7440-47-3	Chromium	N001	1	ug/L	U	F	1		J	C	GEN
GS10	SL	8/1/2017	17088678	HARDNESS	Hardness	N001	376	mg/L		F	1		valid	C	GEN
GS10	SL	8/1/2017	17088678	PU-239,240	Plutonium-239, 240	N001	0.00588	pCi/L	U	F	0.0202	0.00817	valid	C	GEN
GS10	SL	8/1/2017	17088678	7440-22-4	Silver	0001	0.3	ug/L	U	F	0.3		valid	C	GEN
GS10	SL	8/1/2017	17088678	7440-61-1	Uranium	N001	6.87	ug/L	E	F	0.067		J	C	GEN
P416589	WL	8/29/2017	17088685	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	8/29/2017	17088685	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
P416589	WL	8/29/2017	17088685	79-00-5	1,1,2-Trichloroethane	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
P416589	WL	8/29/2017	17088685	75-35-4	1,1-Dichloroethene	N001	0.23	ug/L	U	F	0.23		FQ	G	STD
P416589	WL	8/29/2017	17088685	120-82-1	1,2,4-Trichlorobenzene	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
P416589	WL	8/29/2017	17088685	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.47	ug/L	U	F	0.47		FQ	G	STD
P416589	WL	8/29/2017	17088685	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
P416589	WL	8/29/2017	17088685	95-50-1	1,2-Dichlorobenzene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
P416589	WL	8/29/2017	17088685	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
P416589	WL	8/29/2017	17088685	78-87-5	1,2-Dichloropropane	N001	0.18	ug/L	U	F	0.18		FQ	G	STD
P416589	WL	8/29/2017	17088685	541-73-1	1,3-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		FQ	G	STD
P416589	WL	8/29/2017	17088685	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	8/29/2017	17088685	105-67-9	2, 4-Dimethylphenol	N001	0.55	ug/L	U	F	0.55		FQ	G	STD
P416589	WL	8/29/2017	17088685	95-95-4	2,4,5-Trichlorophenol	N001	0.43	ug/L	U	F	0.43		FQ	G	STD
P416589	WL	8/29/2017	17088685	88-06-2	2,4,6-Trichlorophenol	N001	0.28	ug/L	U	F	0.28		FQ	G	STD
P416589	WL	8/29/2017	17088685	120-83-2	2,4-Dichlorophenol	N001	0.61	ug/L	U	F	0.61		FQ	G	STD
P416589	WL	8/29/2017	17088685	51-28-5	2,4-Dinitrophenol	N001	9.5	ug/L	U	F	9.5		FQ	G	STD
P416589	WL	8/29/2017	17088685	121-14-2	2,4-Dinitrotoluene	N001	1.6	ug/L	U	F	1.6		FQ	G	STD
P416589	WL	8/29/2017	17088685	606-20-2	2,6-Dinitrotoluene	N001	1.8	ug/L	U	F	1.8		FQ	G	STD
P416589	WL	8/29/2017	17088685	91-58-7	2-Chloronaphthalene	N001	0.25	ug/L	U	F	0.25		FQ	G	STD
P416589	WL	8/29/2017	17088685	95-57-8	2-Chlorophenol	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
P416589	WL	8/29/2017	17088685	91-94-1	3,3'-Dichlorobenzidine	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
P416589	WL	8/29/2017	17088685	534-52-1	4,6-Dinitro-2-methyl phenol	N001	3.8	ug/L	U	F	3.8		FQ	G	STD
P416589	WL	8/29/2017	17088685	59-50-7	4-Chloro-3-methylphenol	N001	2.3	ug/L	U	F	2.3		FQ	G	STD
P416589	WL	8/29/2017	17088685	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		FQ	G	STD
P416589	WL	8/29/2017	17088685	83-32-9	Acenaphthene	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
P416589	WL	8/29/2017	17088685	120-12-7	Anthracene	N001	0.4	ug/L	U	F	0.4		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-38-2	Arsenic	0001	4.4	ug/L	U	F	4.4		FQ	G	STD
P416589	WL	8/29/2017	17088685	56-55-3	Benz(a)anthracene	N001	0.33	ug/L	U	F	0.33		FQ	G	STD
P416589	WL	8/29/2017	17088685	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	8/29/2017	17088685	50-32-8	Benzo(a)pyrene	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
P416589	WL	8/29/2017	17088685	205-99-2	Benzo(b)fluoranthene	N001	0.51	ug/L	U	F	0.51		FQ	G	STD
P416589	WL	8/29/2017	17088685	191-24-2	Benzo(g,h,i)Perylene	N001	0.48	ug/L	U	F	0.48		FQ	G	STD
P416589	WL	8/29/2017	17088685	207-08-9	Benzo(k)fluoranthene	N001	0.44	ug/L	U	F	0.44		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-41-7	Beryllium	0001	0.47	ug/L	U	F	0.47		FQ	G	STD
P416589	WL	8/29/2017	17088685	111-44-4	Bis(2-chloroethyl) ether	N001	0.39	ug/L	U	F	0.39		FQ	G	STD
P416589	WL	8/29/2017	17088685	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.27	ug/L	U	F	0.27		FQ	G	STD
P416589	WL	8/29/2017	17088685	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.53	ug/L	U	F	0.53		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-42-8	Boron	0001	9.5	ug/L	J	F	4.4		FQ	G	STD
P416589	WL	8/29/2017	17088685	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
P416589	WL	8/29/2017	17088685	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
P416589	WL	8/29/2017	17088685	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		FQ	G	STD
P416589	WL	8/29/2017	17088685	85-68-7	Butyl benzyl phthalate	N001	0.95	ug/L	U	F	0.95		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		FQ	G	STD
P416589	WL	8/29/2017	17088685	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
P416589	WL	8/29/2017	17088685	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
P416589	WL	8/29/2017	17088685	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
P416589	WL	8/29/2017	17088685	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	8/29/2017	17088685	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-47-3	Chromium	0001	0.8	ug/L	J	F	0.66		FQ	G	STD
P416589	WL	8/29/2017	17088685	218-01-9	Chrysene	N001	0.51	ug/L	U	F	0.51		FQ	G	STD
P416589	WL	8/29/2017	17088685	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-50-8	Copper	0001	4.2	ug/L	U	F	4.2		FQ	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
P416589	WL	8/29/2017	17088685	53-70-3	Dibenz(a,h)anthracene	N001	0.49	ug/L	U	F	0.49		FQ	G	STD
P416589	WL	8/29/2017	17088685	84-66-2	Diethyl phthalate	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
P416589	WL	8/29/2017	17088685	131-11-3	Dimethyl phthalate	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
P416589	WL	8/29/2017	17088685	84-74-2	Di-n-butyl phthalate	N001	1.1	ug/L	U	F	1.1		FQ	G	STD
P416589	WL	8/29/2017	17088685	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	8/29/2017	17088685	206-44-0	Fluoranthene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
P416589	WL	8/29/2017	17088685	86-73-7	Fluorene	N001	0.3	ug/L	U	F	0.3		FQ	G	STD
P416589	WL	8/29/2017	17088685	118-74-1	Hexachlorobenzene	N001	0.63	ug/L	U	F	0.63		FQ	G	STD
P416589	WL	8/29/2017	17088685	87-68-3	Hexachlorobutadiene	N001	0.36	ug/L	U	F	0.36		FQ	G	STD
P416589	WL	8/29/2017	17088685	77-47-4	Hexachlorocyclopentadiene	N001	9.5	ug/L	U	F	9.5		FQ	G	STD
P416589	WL	8/29/2017	17088685	67-72-1	Hexachloroethane	N001	2	ug/L	U	F	2		FQ	G	STD
P416589	WL	8/29/2017	17088685	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.62	ug/L	U*	F	0.62		FQ	G	STD
P416589	WL	8/29/2017	17088685	78-59-1	Isophorone	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
P416589	WL	8/29/2017	17088685	7439-92-1	Lead	0001	4.9	ug/L	JB	F	2.7		UFQ	G	STD
P416589	WL	8/29/2017	17088685	7439-97-6	Mercury	0001	0.027	ug/L	U	F	0.027		FQ	G	STD
P416589	WL	8/29/2017	17088685	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		FQ	G	STD
P416589	WL	8/29/2017	17088685	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-02-0	Nickel	0001	2.6	ug/L	U	F	2.6		FQ	G	STD
P416589	WL	8/29/2017	17088685	98-95-3	Nitrobenzene	N001	0.77	ug/L	U	F	0.77		FQ	G	STD
P416589	WL	8/29/2017	17088685	621-64-7	N-Nitrosodi-n-propylamine	N001	0.33	ug/L	U*	F	0.33		FQ	G	STD
P416589	WL	8/29/2017	17088685	86-30-6	N-Nitrosodiphenylamine	N001	0.42	ug/L	U	F	0.42		FQ	G	STD
P416589	WL	8/29/2017	17088685	87-86-5	Pentachlorophenol	N001	19	ug/L	U	F	19		FQ	G	STD
P416589	WL	8/29/2017	17088685	108-95-2	Phenol	N001	1.9	ug/L	U	F	1.9		FQ	G	STD
P416589	WL	8/29/2017	17088685	129-00-0	Pyrene	N001	0.35	ug/L	U	F	0.35		FQ	G	STD
P416589	WL	8/29/2017	17088685	7782-49-2	Selenium	0001	6.3	ug/L	U	F	6.3		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-22-4	Silver	0001	0.93	ug/L	U	F	0.93		FQ	G	STD
P416589	WL	8/29/2017	17088685	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
P416589	WL	8/29/2017	17088685	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		FQ	G	STD
P416589	WL	8/29/2017	17088685	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		FQ	G	STD
P416589	WL	8/29/2017	17088685	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
P416589	WL	8/29/2017	17088685	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		FQ	G	STD
P416589	WL	8/29/2017	17088685	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		FQ	G	STD
P416589	WL	8/29/2017	17088685	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-61-1	Uranium	0001	2.1	ug/L	U	F	0.05		FQ	G	STD
P416589	WL	8/29/2017	17088685	75-01-4	Vinyl chloride	N001	0.1	ug/L	U	F	0.1		FQ	G	STD
P416589	WL	8/29/2017	17088685	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		FQ	G	STD
SPIN	TS	9/7/2017	17098699	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	630	mg/L	U	F	1.9		valid	G	STD
SPIN	TS	9/7/2017	17098699	7440-61-1	Uranium	N001	62	ug/L	U	F	0.05		J	G	STD
SPOUT	TS	9/7/2017	17098699	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.025	mg/L	J	F	0.019		valid	G	STD
SPOUT	TS	9/7/2017	17098699	7440-61-1	Uranium	N001	71	ug/L	U	F	0.05		valid	G	STD
SPIN	TS	9/20/2017	17098712	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	550	mg/L	U	F	1.9		valid	G	STD
SPIN	TS	9/20/2017	17098712	7440-61-1	Uranium	N001	73	ug/L	U	F	0.05		valid	G	STD
SPOUT	TS	9/20/2017	17098712	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N001	0.019	mg/L	U	F	0.019		valid	G	STD
SPOUT	TS	9/20/2017	17098712	7440-61-1	Uranium	N001	58	ug/L	U	F	0.05		valid	G	STD
WOMPOC	SL	6/21/2017	17108729	AM-241	Americium-241	N001	0.00323	pCi/L	U	F	0.0218	0.00776	valid	C	GEN
WOMPOC	SL	6/21/2017	17108729	PU-239,240	Plutonium-239, 240	N001	0.00552	pCi/L	U	F	0.0234	0.00857	valid	C	GEN
WOMPOC	SL	6/21/2017	17108729	7440-61-1	Uranium	N001	3.02	ug/L	U	F	0.067		valid	C	GEN
GS10	SL	8/22/2017	17108729	AM-241	Americium-241	N001	0.01	pCi/L	U	F	0.0193	0.0101	valid	C	GEN
GS10	SL	8/22/2017	17108729	PU-239,240	Plutonium-239, 240	N001	-0.00581	pCi/L	U	F	0.0246	0.0114	valid	C	GEN
GS10	SL	8/22/2017	17108729	7440-61-1	Uranium	N001	15.5	ug/L	U	F	0.067		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-38-2	Arsenic	N003	5	ug/L	U	F	5		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-41-7	Beryllium	N003	1	ug/L	U	F	1		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-42-8	Boron	N003	15	ug/L	U	F	15		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-47-3	Chromium	N003	1	ug/L	U	F	1		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-50-8	Copper	0001	3	ug/L	U	F	3		valid	C	GEN
GS05	SL	7/10/2017	17108730	7439-92-1	Lead	0001	3.3	ug/L	U	F	3.3		valid	C	GEN
GS05	SL	7/10/2017	17108730	7439-97-6	Mercury	N003	0.067	ug/L	U	F	0.067		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-02-0	Nickel	0001	1.5	ug/L	U	F	1.5		valid	C	GEN
GS05	SL	7/10/2017	17108730	7782-49-2	Selenium	N003	6	ug/L	U	F	6		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-22-4	Silver	0001	1	ug/L	U	F	1		valid	C	GEN
GS05	SL	7/10/2017	17108730	7440-61-1	Uranium	N002	0.306	ug/L	U	F	0.067		U	C	GEN
GS05	SL	7/10/2017	17108730	7440-66-6	Zinc	0001	5.89	ug/L	B	F	3.3		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-38-2	Arsenic	N003	5	ug/L	U	F	5		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-41-7	Beryllium	N003	1	ug/L	U	F	1		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-42-8	Boron	N003	25.7	ug/L	B	F	15		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-47-3	Chromium	N003	3.95	ug/L	B	F	1		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-50-8	Copper	0001	3	ug/L	U	F	3		valid	C	GEN
GS59	SL	7/10/2017	17108730	7439-92-1	Lead	0001	33	ug/L	U	F	33		valid	C	GEN
GS59	SL	7/10/2017	17108730	7439-97-6	Mercury	N003	0.067	ug/L	U	F	0.067		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-02-0	Nickel	0001	1.5	ug/L	U	F	1.5		valid	C	GEN
GS59	SL	7/10/2017	17108730	7782-49-2	Selenium	N003	6	ug/L	U	F	6		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-22-4	Silver	0001	1	ug/L	U	F	1		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-61-1	Uranium	N002	1.87	ug/L	U	F	0.067		valid	C	GEN
GS59	SL	7/10/2017	17108730	7440-66-6	Zinc	0001	3.3	ug/L	U	F	3.3		valid	C	GEN

Appendix B
Analytical Results for Water Samples—Third Quarter CY 2017
RFLMA Data

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
SW093	SL	7/10/2017	17108730	AM-241	Americium-241	N002	0.0202	pCi/L	U	F	0.0247	0.0131	valid	C	GEN
SW093	SL	7/10/2017	17108730	7440-41-7	Beryllium	N002	1	ug/L	U	F	1		valid	C	GEN
SW093	SL	7/10/2017	17108730	7440-43-9	Cadmium	0002	0.3	ug/L	U	F	0.3		valid	C	GEN
SW093	SL	7/10/2017	17108730	7440-47-3	Chromium	N002	2.88	ug/L	B	F	1		valid	C	GEN
SW093	SL	7/10/2017	17108730	HARDNESS	Hardness	N002	433	mg/L	Q	F	1		valid	C	GEN
SW093	SL	7/10/2017	17108730	PU-239,240	Plutonium-239, 240	N002	0.0594	pCi/L		F	0.0235	0.0217	J	C	GEN
SW093	SL	7/10/2017	17108730	7440-22-4	Silver	0002	0.3	ug/L	U	F	0.3		valid	C	GEN
SW093	SL	7/10/2017	17108730	7440-61-1	Uranium	N002	5.57	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 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

COLLECTION METHOD

G Grab

C Composite

LAB CODE

GEN Gel Laboratories

STD Test America

ROCKY FLATS STEWARDSHIP COUNCIL

P.O. Box 17670
Boulder, CO 80308-0670
www.rockyflatssc.org

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(303) 600-7773 (f)

Jefferson County ~ Boulder County ~ City and County of Broomfield ~ City of Arvada ~ City of Boulder
City of Golden ~ City of Northglenn ~ City of Thornton ~ City of Westminster ~ Town of Superior
League of Women Voters ~ Rocky Flats Cold War Museum ~ Rocky Flats Homesteaders

MEMORANDUM

TO: Board of Directors
FROM: David Abelson
SUBJECT: CDPHE briefing – “Myths and Misunderstandings”
DATE: January 25, 2018

CDPHE has requested time to brief the Board on a set of issues they are calling “Myths and Misunderstandings.” One hour has been scheduled for the briefing and discussion, including public comment. I anticipate a number of issues and questions will arise that the Board will look to discuss in further detail at the April 2, 2018, meeting and beyond.

Without preempting CDPHE’s presentation, a few “Myths and Misunderstandings” CDPHE has identified are:

1. Statement: The level of radiation at Rocky Flats is abnormal and dangerous.
2. Statement: Rocky Flats data and records are not available to the public.
3. Statement: No standards have been established by EPA or CDPHE for airborne radionuclides.
4. Statement: Parkway construction will entrain Pu in air and will certainly endanger populations.
5. Statement: The distribution and risk of off-site contamination is unknown.
6. Statement: CDPHE is not enforcing regulations when it takes no action following surface water quality exceedances at the points of compliance.

Please let me know what questions you have.

Appendix

- Meeting Protocols
- Acronym List

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Rocky Flats Stewardship Council – Meeting Overview and Protocols

The central purpose of the meeting of the Rocky Flats Stewardship Council Board of Directors is for the Board and public to learn about current site activities and monitoring results, to be briefed on any issues or challenges DOE and the regulatory agencies are facing, and other issues that come before the Board. The Board reserves time at each meeting to address governance-related issues. Those issues are identified in the meeting agenda, and could include the budget, work plan, minutes, and related items.

All meetings of the Board of Directors are open to the public. From time-to-time, and in accordance with § 24-6-402(4), Colorado Revised Statutes, the Board may go into executive session. Public notice of the executive session is provided in the meeting agenda.

Public Engagement Protocols: Time is allotted at each meeting for the public to address the Board of Directors and presenters. The following procedures apply to all meetings of the Board of Directors. The Chair reserves the right to modify these procedures.

1. **Public comment periods:** The public comment periods are identified on the meeting agenda. The goal is to have two public comment periods—one near the start of the meeting and another near the end. The public comment periods are not a Q&A with the Board.
2. **Time limit:** The Board requests that comments be to the point. If individual comments are too long and/or if there are a number of people who wish to speak, the Chair reserves the right to enact a time limit.
3. **Additional public comment:** As time allows, and as called on by the Chair, the public is allowed to ask questions or express an opinion during presentations. The Board will have the first opportunity to ask questions or make comments.

No personal attacks: All people speaking at the meeting must refrain from personal attacks and address the issues at hand.

Public Comment on Stewardship Council Website: The Stewardship Council website includes a section for public comment. To have your comment posted, you must email a copy of your comments to David Abelson (dabelson@rockyflatssc.org).

Noise: In order to help reduce background noise, sidebar and backroom conversations should be taken into the hall.

To be added to the Stewardship Council's email distribution list, please email David Abelson (dabelson@rockyflatssc.org).

Acronym or Term	Means	Definition
Alpha Radiation		<p>A type of radiation that is not very penetrating and can be blocked by materials such as human skin or paper. Alpha radiation presents its greatest risk when it gets inside the human body, such as when a particle of alpha emitting material is inhaled into the lungs. Plutonium, the radioactive material of greatest concern at Rocky Flats, produces this type of radiation.</p>
Am	americium	<p>A man-made radioactive element which is often associated with plutonium. In a mass of Pu, Am increases in concentration over time which can pose personnel handling issues since Am is a gamma radiation-emitter which penetrates many types of protective shielding. During the production era at Rocky Flats, Am was chemically separated from Pu to reduce personnel exposures.</p>
AME	Actinide Migration Evaluation	<p>An exhaustive years-long study by independent researchers who studied how actinides such as Pu, Am, and U move through the soil and water at Rocky Flats</p>
AMP	Adaptive Management Plan	<p>Additional analyses that DOE is performing beyond the normal environmental assessment for breaching the remaining site dams.</p>
AOC well	Area of Concern well	<p>A particular type of groundwater well</p>
B	boron	<p>Boron has been found in some surface water and groundwater samples at the site</p>
Be	beryllium	<p>A very strong and lightweight metal that was used at Rocky Flats in the manufacture of nuclear weapons. Exposure to beryllium is now known to cause respiratory disease in those persons sensitive to it</p>
Beta Radiation		<p>A type of radiation more penetrating than alpha and hence requires more shielding. Some forms of uranium emit beta radiation.</p>

Rocky Flats Acronym List
 Prepared by Rik Getty, Rocky Flat Stewardship Council
 October 2014

BMP	best management practice	A term used to describe actions taken by DOE that are not required by regulation but warrant action.
BZ	Buffer Zone	The majority of the Rocky Flats site was open land that was added to provide a "buffer" between the neighboring communities and the industrial portion of the site. The buffer zone was approximately 6,000 acres. Most of the buffer zone lands now make up the Rocky Flats National Wildlife Refuge.
CAD/ROD	corrective action decision/record of decision	The complete final plan for cleanup and closure for Rocky Flats. The Federal/State laws that governed the cleanup at Rocky Flats required a document of this sort.
CCP	Comprehensive Conservation Plan	The refuge plan adopted by the U.S. Fish and Wildlife Service in 2007.
CDPHE	Colorado Department of Public Health and Environment	State agency that regulates the site.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	Federal legislation that governs site cleanup. Also known as the Superfund Act
cfs	cubic feet per second	A volumetric measure of water flow.
COC	Contaminant of Concern	A hazardous or radioactive substance that is present at the site.
COU	Central Operable Unit	A CERCLA term used to describe the DOE-retained lands, about 1,500 acres comprised mainly of the former Industrial Area where remediation occurred
CR	Contact Record	A regulatory procedure where CDPHE reviews a proposed action by DOE and either approves the proposal as is or requires changes to the proposal before approval. CRs apply to a wide range of activities performed by DOE. After approval the CR is posted on the DOE-LM website and the public is notified via email.
Cr	chromium	Potentially toxic metal used at the site.
CRA	comprehensive risk assessment	A complicated series of analyses detailing human health risks and risks to the environment (flora and fauna).

Rocky Flats Acronym List
 Prepared by Rik Getty, Rocky Flat Stewardship Council
 October 2014

D&D	decontamination and decommissioning	The process of cleaning up and tearing down buildings and other structures.
DG	discharge gallery	This is where the treated effluent of the SPPTS empties into North Walnut Creek.
DOE	U.S. Department of Energy	The federal agency that manages portions of Rocky Flats. The site office is the Office of Legacy Management (LM).
EA	environmental assessment	Required by NEPA (see below) when a federal agency proposes an action that could impact the environment. The agency is responsible for conducting the analysis to determine what, if any, impacts to the environment might occur due to a proposed action.
EIS	environmental impact statement	A complex evaluation that is undertaken by a government agency when it is determined that a proposed action by the agency may have significant impacts to the environment.
EPA	U.S. Environmental Protection Agency	The federal regulatory agency for the site.
EEOICPA	energy employees occupational illness compensation program act	This act was passed by Congress in 2000 to compensate sick nuclear weapons workers and certain survivors. Unfortunately the program has been fraught with difficulties in getting benefits to these workers over the years.
ETPTS	east trenches plume treatment system	The treatment system near the location of the east waste disposal trenches which treats groundwater contaminated with organic solvents emanating from the trenches. Treated effluent flows into South Walnut Creek.
FC	functional channel	Man-made stream channels constructed during cleanup to help direct water flow.
FACA	Federal Advisory Committee Act	This federal law regulated federal advisory boards. The law requires balanced membership and open meetings with published Federal Register meeting dates.
Gamma Radiation		This type of radiation is very penetrating and requires heavy shielding to keep it from exposing people. Am is a strong gamma emitter.
GAO	Government Accountability Office	Congressional office which reports to Congress. The GAO did 2 investigations of

		Rocky Flats relating to the ability to close the site for a certain dollar amount and on a certain time schedule. The first study was not optimistic while the second was very positive.
g	gram	metric unit of weight
gpm	gallons per minute	A volumetric measure of water flow in the site's groundwater treatment systems and other locations.
GWIS	groundwater intercept system	Refers to a below ground system that directs contaminated groundwater toward the Solar Ponds and East Trenches treatment systems.
IA	Industrial Area	Refers to the central core of Rocky Flats where all production activities took place. The IA was roughly 350 of the total 6,500 acres at the site.
IC	Institutional Control	ICs are physical and legal controls geared towards ensuring the cleanup remedies remain in place and remain effective.
IGA	intergovernmental agreement	A cooperative agreement between local governments which sets up the framework of the Stewardship Council.
IHSS	Individual Hazardous Substance Site	A name given during cleanup to a discrete area of known or suspected contamination. There were over two hundred such sites at Rocky Flats.
ITPH	interceptor trench pump house	The location where contaminated groundwater collected by the interceptor trench is pumped to either the Solar Ponds and East Trenches treatment systems
L	liter	Metric measure of volume, a liter is slightly larger than a quart.
LANL	Los Alamos National Laboratory	One of the US government's premier research institutions located near Santa Fe, NM. LANL is continuing to conduct highly specialized water analysis for Rocky Flats. Using sophisticated techniques LANL is able to determine the percentages of both naturally-occurring and man-made uranium which helps to inform water quality decisions.
LHSU	lower hydrostratigraphic unit	Hydrogeology term for deep unweathered bedrock which is hydraulically isolated from the upper hydrostratigraphic unit (see

		UHSU). Data shows that site contaminants have not contaminated the LHSU.
LM	Legacy Management	DOE office responsible for overseeing activities at closed sites.
LMPIP	Legacy Management Public Involvement Plan	This plan follows DOE and EPA guidance on public participation and outlines the methods of public involvement and communication used to inform the public of site conditions and activities. It was previously known as the Post-Closure Public Involvement Plan (PCPIP).
M&M	monitoring and maintenance	Refers to ongoing activities at Rocky Flats.
MOU	Memorandum of Understanding	MOU refers to the formal agreement between EPA and CDPHE which provides that CDPHE is the lead post-closure regulator with EPA providing assistance when needed.
MSPTS	Mound site plume treatment system	The treatment system for treating groundwater contaminated with organic solvents which emanates from the Mound site where waste barrels were buried. Treated effluent flows into South Walnut Creek.
NEPA	National Environmental Policy Act	Federal legislation that requires the federal government to perform analyses of environmental consequences of major projects or activities.
nitrates		Contaminant of concern found in the North Walnut Creek drainage derived from Solar Ponds wastes. Nitrates are very soluble in water and move readily through the aquatic environment
Np	neptunium	A man-made radioactive isotope that is found as a by-product of nuclear reactors and plutonium production.
NPL	National Priorities List	A listing of Superfund sites. The refuge lands were de-listed from the NPL while the DOE-retained lands are still on the NPL due to ongoing groundwater contamination and associated remediation activities.
OLF	Original Landfill	Hillside dumping area of about 20 acres which was used from 1951 to 1968. It underwent extensive remediation with the

		addition of a soil cap and groundwater monitoring locations.
OU	Operable Unit	A term given to large areas of the site where remediation was focused.
PCE	perchloroethylene	A volatile organic solvent used in past operations at the site. PCE is also found in environmental media as a breakdown product of other solvents.
pCi/g	picocuries per gram of soil	A unit of radioactivity measure. The soil cleanup standard at the site was 50 pCi/g of soil.
pCi/L	picocuries per liter of water	A water concentration measurement. The State of Colorado has a regulatory limit for Pu and Am which is 0.15 pCi/L of water. This standard is 100 times stricter than the EPA's national standard.
PLF	Present Landfill	Landfill constructed in 1968 to replace the OLF. During cleanup the PLF was closed under RCRA regulations with an extensive cap and monitoring system.
PMJM	Preble's Meadow Jumping Mouse	A species of mouse found along the Front Range that is on the endangered species list. There are several areas in the Refuge and COU that provide an adequate habitat for the mouse, usually found in drainages. Any operations that are planned in potential mouse habitat are strictly controlled.
POC	Point of Compliance (surface water)	A surface water site that is monitored and must be found to be in compliance with federal and state standards for hazardous constituents. Violations of water quality standards at the points of compliance could result in DOE receiving financial penalties.
POE	Point of Evaluation (surface water)	These are locations at Rocky Flats at which surface water is monitored for water quality. There are no financial penalties associated with water quality exceedances at these locations, but the site may be required to develop a plan of action to improve the water quality.
POU	Peripheral Operable Unit	A CERCLA term used to describe the Wildlife Refuge lands of about 4,000 acres.

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Pu	plutonium	Plutonium is a metallic substance that was fabricated to form the core or "trigger" of a nuclear weapon. Formation of these triggers was the primary production mission of the Rocky Flats site. Pu-239 is the primary radioactive element of concern at the site. There are different forms of plutonium, called isotopes. Each isotope is known by a different number. Hence, there are plutonium 239, 238, 241 and others.
RCRA	Resource Conservation and Recovery Act	Federal law regulating hazardous waste. In Colorado, the EPA delegates CDPHE the authority to regulate hazardous wastes.
RFCA	Rocky Flats Cleanup Agreement	The regulatory agreement which governed cleanup activities. DOE, EPA, and CDPHE were signors.
RFCAB	Rocky Flats Citizen Advisory Board	This group was formed as part of DOE's site-specific advisory board network. They provided community feedback to DOE on a wide variety of Rocky Flats issues from 1993-2006.
RFCLOG	Rocky Flats Coalition of Local Governments	The predecessor organization of the Rocky Flats Stewardship Council
RFETS	Rocky Flats Environmental Technology Site	The moniker for the site during cleanup years.
RFLMA	Rocky Flats Legacy Management Agreement	The post-cleanup regulatory agreement between DOE, CDPHE, and EPA which governs site activities. The CDPHE takes lead regulator role, with support from EPA as required.
RFNWR	Rocky Flats National Wildlife Refuge	The approximate 4,000 acres which compose the wildlife refuge.
RFSOG	Rocky Flats Site Operations Guide	The nuts-and-bolt guide for post-closure site activities performed by DOE and its contractors.
SEP	Solar Evaporation Ponds	In the 1950's when the site's liquid waste treatment capability was surpassed by the liquid waste generation rate, the site resulted to transferring liquid wastes to open-air holding ponds where solar energy was utilized to evaporate and concentrate the waste. The original SEPs were not impermeable and substantial quantities of uranium and nitrates made their way into

		groundwater. As a result the solar ponds plume treatment system was necessary to treat the contaminated groundwater before it emerged as surface water in North Walnut Creek.
SPPTS	solar ponds plume treatment system	System used to treat groundwater contaminated with uranium and nitrates. The nitrates originate from the former solar evaporation ponds which had high levels of nitric acid. The uranium is primarily naturally-occurring with only a slight portion man-made. Effluent flows into North Walnut Creek
SVOCs	semi-volatile organic compounds	These compounds are not as volatile as the solvent VOCs. They tend to be similar to oils and tars. They are found in many environmental media at the site. One of the most common items to contain SVOCs is asphalt.
TCE	trichloroethylene	A volatile organic solvent used in past operations at the site. TCE is also found in environmental media as a breakdown product of other solvents.
U	uranium	Naturally occurring radioactive element. There were two primary isotopes of U used during production activities. The first was enriched U which contained a very high percentage (>90%) of U-235 which was used in nuclear weapons. The second isotope was U-238, also known as depleted uranium. This had various uses at the site and only had low levels of radioactivity.
UHSU	upper hydrostratigraphic unit	A hydrogeology term describing the surficial materials and weathered bedrock found at Rocky Flats. The UHSU is hydraulically isolated from the lower hydrostratigraphic unit (see LHSU). Groundwater in some UHSU areas of the site is contaminated with various contaminants of concern while groundwater in other UHSU areas is not impacted. All groundwater in the UHSU emerges to surface water before it leaves the site.

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USFWS	United States Fish & Wildlife Service	An agency within the US Department of the Interior that is responsible for maintaining the nation-wide system of wildlife refuges, among other duties. The regional office is responsible for the RFNWR.
VOC	volatile organic compound	These compounds include cleaning solvents that were used in the manufacturing operations at Rocky Flats. The VOCs used at Rocky Flats include carbon tetrachloride (often called carbon tet), trichloroethene (also called TCE), perchloroethylene (also called PCE), and methylene chloride.
WCRA	Woman Creek Reservoir Authority	This group is composed of the three local communities, the Cities of Westminster, Northglenn, and Thornton, who use Stanley Lake as part of their drinking water supply network. Water from the site used to flow through Woman Creek to Stanley Lake but the reservoir severed that connection. The Authority has an operations agreement with DOE to manage the Woman Creek Reservoir.
WQCC	Water Quality Control Commission	State board within CDPHE tasked with overseeing water quality issues throughout the state. DOE has petitioned the WQCC several times in the last few years regarding water quality issues.
ZVI	zero valent iron	A type of fine iron particles used to treat VOC's in the ETPTS and MSPTS.