ROCKY FLATS STEWARDSHIP COUNCIL

P.O. Box 17670
Boulder, CO 80308-0670
www.rockyflatssc.org
(303) 412-1200

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
Kim Griffiths

Board of Directors Meeting – Agenda

Monday, February 7, 2022

8:30 – 10:45 AM

VIA WEBEX

Email info@rockyflatssc.org for WebEx details

8:30 AM Convene/Introductions/Agenda Review/Meeting Protocols

8:40 AM Public Comment: Comments are limited to the Consent Agenda and non-agenda items. See the "Special COVID-19 Announcement" for details.

8:50 AM Business Items (briefing memo attached)

1. Elect Stewardship Council Officers for 2022

   Action Item: Elect Officers

2. Adopt 2022 Meeting Schedule and Notice Provisions Resolution

   Action item: Adopt Resolution

3. Consent Agenda: Approve meeting minutes (September 2021 and November 2021) and checks

4. Executive Director's Report

9:05 AM Wildfire at Rocky Flats: DOE-USFWS Discussion of How the Agencies Would Respond (no briefing memo)

- DOE and USFWS will provide an overview of agency responses to wildfire at Rocky Flats

9:50 AM Host DOE Quarterly Meeting (briefing memo attached)

- DOE will brief on site activities for the third quarter of 2021 (July – September).

- DOE has posted the report on its website and will provide a summary of its activities to the Stewardship Council.
- Activities included surface water monitoring, groundwater monitoring, ecological monitoring, and site operations (inspections, maintenance, etc.).

Public Comment on DOE Briefing: As explained in the "Special COVID-19 Announcement," all comments must be submitted in writing.

10:40 AM Board Roundtable – Big Picture/Additional Questions/Issue Identification

Adjourn

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

April 4
June 6
September 12
October 31

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Kim Griffiths

Special COVID-19 Announcement

Board of Directors Meeting
Monday, February 7, 2022, 8:30 – 10:45 AM

Due to COVID-19 social distancing requirements, the Rocky Flats Stewardship Council Board of Directors will meet via WebEx, with an internet/phone link provided by separate notice. The meeting is open to the public. Following the direction of local governments and other public entities throughout Colorado, public engagement is being modified for this virtual meeting.

To ensure the meeting participants are able to hear the information being presented and the members of the Board of Directors are able to engage in conversation, the following meeting-specific protocols have been developed:

1. Public comments during the 8:40 am (approximate time) public comment period are limited to three minutes. Participants must sign up in advance by emailing a request to speak to info@rockyflatssc.org. Requests must be made no later than 5:00 pm (MDT), Thursday, February 3, 2022. Persons submitting requests after this deadline will not be allowed to speak during the public comment period.

2. Public comments on the DOE Quarterly Report presentation are limited to written comments. Comments must be sent to info@rockyflatssc.org. All comments sent by 5:00 pm (MDT), Thursday, February 3, 2022, will be forwarded to the Board of Directors prior to the meeting. Comments sent during or following the meeting are also accepted.

3. All written comments, including those sent during or following the meeting, will be posted on the Stewardship Council website.

4. DOE has agreed to respond in writing to comments offered on that agency's report. Those responses will be posted on the Stewardship Council website.

Please direct any questions to dabelson@rockyflatssc.org

Business Items

- Cover memo
- 2022 meeting dates resolution and notice provisions
- September 13, 2021, draft board meeting minutes
- November 1, 2021, draft board meeting minutes
- List of Stewardship Council checks

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MEMORANDUM

TO: Board of Directors
FROM: David Abelson
SUBJECT: Business Items
DATE: January 27, 2022

As provided in the agenda, the Board must:

1. Elect Stewardship Council officers for 2022
2. Adopt 2022 Meeting Schedule and Notice Provisions Resolution
3. Approve the Consent Agenda (minutes from September and November 2021 meetings, and checks)

The first two items are discussed below.

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:

Jan Kulmann (Thornton) – Chair
Deven Shaff (Broomfield) – Vice Chair
Jeannette Hillery (League of Women Voters) – Vice Chair or 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 2022

Resolution Re: 2022 Meeting Schedule and Notice Provisions
Each year, the Board adopts a resolution establishing the meeting dates for the year. The proposed dates for 2022 are:

February 7 (first Monday of the month)
April 4 (first Monday of the month)

June 6 (first Monday of the month)
September 12 (second Monday of the month)
October 31 (last Monday of the month)

The attached resolution and notice provisions track the Stewardship Council's bylaws and account for the February and April meetings being virtual.

ACTION ITEM: Adopt the meeting schedule and notice resolution

RESOLUTION
OF THE
BOARD OF DIRECTORS
OF
ROCKY FLATS STEWARDSHIP COUNCIL

regarding

2022 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 2021.

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 in 2022 on **February 7, April 4, June 6, September 12 and October 31 at 8:30 AM**; and to hold special meetings as may be necessary, in accordance with the Bylaws of the Stewardship Council. The February and April, 2022 meetings will be held virtually using Webex due to concerns surrounding the COVID-19 pandemic. Members of the public will be able to participate remotely through Webex. After April, regular and special meetings will be held at a location to be determined.

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 7th DAY OF FEBRUARY, 2022.

(SEAL)

ROCKY FLATS STEWARDSHIP COUNCIL

By: _____
Chair

ATTEST:

By: _____

ROCKY FLATS STEWARDSHIP COUNCIL
Monday, September 13, 2021
8:30 – 10:30 AM
Virtual Meeting via WebEx

Board members in attendance: Nancy Ford (Director, Arvada), Clare Levy (Director, Boulder County), Summer Laws (Alternate, Boulder County), Taylor Reimann (Alternate, City of Boulder), Deven Shaff (Director, Broomfield), Bill Fisher (Alternate, Golden), Andy Kerr (Director, Jefferson County), Pat O'Connell (Alternate, Jefferson County), Joyce Downing (Director, Northglenn), Shelley Stanley (Alternate, Northglenn), Ken Lish (Alternate, Superior), Jan Kulmann (Director, Thornton), James Boswell (Alternate, Thornton), Kathryn Skulley (Director, Westminster), Jeannette Hillery (Director, League of Women Voters), Linda Porter (Alternate, League of Women Voters), Murph Widdowfield (Director, Rocky Flats Homesteaders), Kim Griffiths (Director/Citizen)

Stewardship Council staff members and consultants in attendance: David Abelson (Executive Director), Melissa Weakley (Technical Program Manager), Barb Vander Wall (Seter & Vander Wall, P.C)

Attendees: Gwen Hooten (DOE-LM), Andy Keim (DOE-LM), Padraic Benson (DOE-LM), Nicole Lachance (RSI Entech), Dana Santi (RSI Entech), John Boylan (RSI Entech), George Squibb (RSI Entech), Harry Bolton (RSI Entech), Chris Stewart (RSI Entech), Karin McShea (RSI Entech), Faith Anderson (RSI Entech), Lindsey Murl (CDPHE), Jesse Aviles (EPA), Cathy Shugarts (Westminster), Laura Hubbard (Broomfield), Lynn Segal, Giselle Herzfeld, Usama Khalid, Claire O'Brien, Jake Moyer, Catie Chershire (Westword)

Convene/Agenda Review: Joyce Downing convened the meeting at 8:30 am. She noted that the Executive Committee met to discuss today's agenda.

Public Comment:
Claire O'Brien – Claire shared her opinion that generational knowledge about Rocky Flats is being lost and that she was concerned about the encouragement of recreation on the Rocky Flats National Wildlife Refuge, and what she sees as lack of posted information about the history of Rocky Flats. She said she was interested in hearing how the Stewardship Council plans to ensure the continued public knowledge about the risks posed from the remaining contamination on the site.

Giselle Herzfeld - Claire said she grew up near the Rocky Flats, but that she had not heard anything about the site until recently. She said the funding that Stewardship Council receives from DOE is a conflict of interest, as she sees that DOE has a vested interest in keeping the perception of risks at the site minimized.

Usama Khalid – Usama said she works for various nonprofits around the Denver/Boulder area. She said she has concerns about the operation of the Stewardship Council. She said she would like to know more details about the discussion at the August 2021 meeting regarding the future dam breach at the site. She was also concerned about contamination at a Westminster dog park.

Lynn Segal – Lynn said she was concerned about future dam breaches spreading plutonium through water. She said Rocky Flats is not a refuge but is a Superfund site and should be treated as such. She recounted the history of her mother passing away from leukemia after what Lynn believes is a

correlation to inhaled plutonium after a fire at the site. She asked the Stewardship Council to work to keep people off the Refuge.

Consent Agenda: The consent agenda included the checks written since the June 7, 2021, meeting, and minutes from the May 3, 2021, and June 7, 2021, meetings. Jeannette Hillery moved to approve consent agenda. The motion was seconded by Kim Griffiths. The motion passed 14-0.

Executive Director's Report:
LSO Applications: Each year the Stewardship Council appoints two members to the board of directors. That process opened September 1; applications are due October 1. The two seats that are up are League of Women Voters and Rocky Flats Homesteaders. Both will reapply.

Dam Breach: David recently met with DOE and has been assured that DOE will not breach the terminal ponds so long as current management remains in place.

Post COVID: At the June 2021 meeting David spoke about resuming in-person meetings or hybrid meetings. That was before the Delta variant took hold. Accordingly, David is recommending that the board continue to meet virtually for the remainder of 2021 (November 1st in the sole remaining meeting).

Lawsuit Against USFWS: In an order dated July 9, 2021, a federal district court judge in Denver tossed out the remaining claims in the Rocky Mountain Peace and Justice Center et. al lawsuit against USFWS et. al seeking to block the 2018 opening of the Rocky Flats National Wildlife Refuge. This order brings to a close this lawsuit, pending an appeal by the plaintiffs. The plaintiffs filed a notice that they intend to appeal the decision. David previously shared with the Board the court's opinion. One thing of note is that in a 2018 hearing seeking a preliminary injunction, the plaintiffs' attorney stated, "the lawsuit does not challenge EPA's determination that the refuge is safe." Essentially, the case focused on two claims – endangered species and NEPA. Those claims were rejected.

Lawsuit Against the City of Boulder: In May 2021, a group that included one of the same plaintiff groups as the USFWS suit, represented by the same attorney, sued the City of Boulder challenging the City's continued involvement in the Rocky Mountain Greenway project. That lawsuit was also dismissed, with the court ruling that the legal basis of the suit was flawed and that the plaintiffs did not have standing, a legal basis to bring any suit.

Kim Griffiths interjected a response to the concern about lack of adequate signage at Rocky Flats. She said she hikes there frequently and that signage at both the north and south entrances thoroughly educate the visitors about the history of Rocky Flats as a former nuclear weapons site. She added that DOE continuously monitors the signage on the protected area of the site. Nancy Ford asked about a recent ruling regarding hunting on National Wildlife Refuge lands and whether this applies to Rocky Flats. David said his recollection was that there is something about this in the Rocky Flats Refuge plan but does not believe anything is being contemplated. He said he would check with the USFWS.

Host DOE Quarterly

DOE was on hand to brief the Board regarding on the first quarter 2021 Surveillance and Maintenance Report for Rocky Flats. These quarterly reports are required under the Rocky Flats Legacy Management Agreement (RFLMA) to document that the CERCLA remedy continues to provide effective protection.

The Rocky Flats Site remedy components include:

- Maintain two landfill covers
- Maintain three groundwater treatment systems
- Monitor surface water and groundwater
- Maintain physical controls
    - Signage
    - Access restriction
- Institutional controls
    - No occupied building construction
    - Excavation and soil-disturbance restrictions
    - No surface water consumption or agricultural use
    - No groundwater wells, except for monitoring
    - Protection of landfill covers and engineered remedy components

Activities during the quarter included surface water monitoring, groundwater monitoring, ecological monitoring, and site operations (inspections, maintenance, etc.).

Surface Water Monitoring – George Squibb

George began with a quick review of the monitoring requirements and map of locations and monitoring sites, noting the list of constituents which are monitored.

Routine surface water sampling in Woman Creek at monitoring station GS59, downstream of the Original Landfill (OLF), showed mean concentrations for all analytes below applicable RFLMA water quality standards.

At the Present Landfill Treatment System (PLFTS) effluent monitoring station, quarterly concentrations for all analytes were below applicable RFLMA standards

George said that no Point of Evaluation (POE) or Point of Compliance (POC) analyte concentrations were reportable during the first quarter of 2021.

Groundwater Monitoring – John Boylan

John first reviewed the RFLMA monitoring network, which includes:

- 10 Resource Conservation and Recovery Act (RCRA) wells (sampled quarterly to evaluate potential impacts from OLF and PLF)
- 9 Area of Concern (AOC) wells and one Surface Water Support location (sampled semiannually).These are located in drainages downstream of contaminant plumes and are evaluated for plumes discharging to surface water
- 27 Sentinel wells (sampled semiannually). These are downgradient of treatment systems, edgesof plumes, and in drainages, and are used to look for plumes migrating to surface

water and treatment system problems
- 42 evaluation wells (sampled biennially). These are located within plumes, near source areas, and interior of Central Operable Unit (COU) and are used to evaluate whether monitoring of anarea or plume can cease
- 9 treatment system locations (seven are sampled semiannually, and two are quarterly)

During the first quarter of 2021, 10 RCRA wells were sampled at the PLF and OLF. Results were generally consistent with previous data and will be evaluated as part of the 2021 annual report.

Routine maintenance was conducted at all treatment systems:
- East Trenches Plume Treatment System (ETPTS)
- Mound Site Plume Collection System (MSPCS)
- Solar Ponds Plume Treatment System (SPPTS)
- Present Landfill Treatment System (PLFTS)

At the MSPCS, transfer line repairs were performed in March 2021. All nine cleanouts and cleanout covers were replaced to address manufacturing defects and protect from future elk traffic. Water transfer was paused during this work. Water continued to be collected in the trench and accumulated water was transferred to ETPTS for treatment after the repaired line was ready for use.

At the ETPTS, parts exposed within a vault froze during a period of extreme cold in February 2021. Water transfer from MSPCS was paused until frozen parts thawed and were confirmed to be undamaged.

At the SPPTS, a sump pump in one of the vaults was replaced. Seasonal adjustments to dosing and residence time were continued. They also continued evaluating groundwater conditions west of the existing collection trench.

Shelley Stanley asked how long it took for the line to unfreeze and where the water was stored during this time. John said the line was frozen for five days before thawing. The water was stored in the collection trenches. Shelley asked what the depth of the section that froze was. John said the pipes are about 4-5 feet below grade and noted that the vaults are already insulated. Shelley also asked about the process they are using to modify the de-nitrifying bacteria treatment in the winter. John said that they did not modify the formula, but only the rate they are fed (dose rate and residence time). Shelley asked George, in light of climate change concerns, whether they saw any changes in volume of flow at any of the surface water sites. George said it is very hard to tease out climate change effects from basic weather effects on surface water. He says they are seeing normal variability.

Site Operations – Harry Bolton

RFLMA physical controls were verified during the quarter. Signs were inspected in February, and all were found to be in good condition and legible

Monthly and weather-related inspections were conducted at the OLF in January, February, and March:
- Coconut erosion matting that had been displaced from high winds and elk migration was re-staked, replaced or had wood straw spread as an alternative

- The March 26 inspection was combined with a weather-related inspection following the rapid melt of 10 inches of snow.
    - Rills were found outside of the waste footprint above berms 5 and 6, which deposited 1-3 inches of sediment into the berm channels. These were removed using hand tools.

At the Original Landfill, settlement monuments were surveyed in March. Vertical settling was within design limits. Areas of stabilization activities remain stable and in good condition.

At the Present Landfill, the quarterly inspection was performed in March and the landfill was found to be in good condition.

A quarterly inspection was also performed at the Former Buildings 371, 771, 881 and 991 areas in February. A depression was located near the southeast corner of the former B881 area. This depression was about 40 inches in diameter and 3 feet deep and was backfilled with approximately one yard of material.

At the North Walnut Creek Slump, data collection was continued from inclinometers and piezometers were possible. Slump monitoring points were surveyed in January, February and March and no substantial changes were seen. Total vertical movement since baseline (Sep. 2017) was approximately 3.6 feet.

Shelley Stanley asked whether any of the structures installed to stabilize the OLF interfered with the operation of inclinometers or piezometers. Harry said 2-3 piezometers were lost, but they still have enough to collect the data they need. Some inclinometers were lost prior to the stabilization effort, but the ones that remain are showing very little movement.

Deven Schaff asked where the erosion sediment was found within the landfill area. Harry said it was just a result of heavy rainfall and nothing was out of the ordinary. No major damage was done. Deven also asked about the origin of the fill material for the depression near B881. Harry said for these types of projects, they will use both Rocky Flats alluvium saved from other projects, as well as material brought in from the quarry adjacent to the site (this is so that it is as similar to existing soil as possible).

Nancy Ford asked what a rill is. Harry said it is like a little gully or channel. Nancy added that she really appreciated the presentations that were given today, along with the photos that were presented. She thinks it would be a good idea to share similar videos/photos with new members of the Stewardship Council to help educate them about the site and the activities that are being undertaken there. David said he agreed with this idea and would look into incorporating something like this in a future meeting.

2022 Work Plan – Initial Review

The Board reviewed the draft 2022 work plan. Formal approval of the work plan will take place at the November 1st meeting. David noted that one big issue starting now and lasting through next summer is the CERCLA Five-Year Review at Rocky Flats. This is the official agency review to ensure the cleanup remedy is working as designed. This review is prescribed by regulations and will be approved by EPA. David also noted that, based on conversations with USFWS, he replaced references to looking at a potential visitor center at the Refuge with the topics of interpretive signage and/or a visitor center. There was also language added to the work plan about PFAS. Claire Levy asked for clarification about the

levels of involvement intended on various topics in the workplan (i.e., track, engage, monitor, etc.). David said there is no significant difference in how the Board intends to handle these issues, however he explained that 'engage' does imply a somewhat more active level of participation in an issue.

Deven Shaff brought up the issue of interpretive signage and the need for additional information for visitors at the site and online. He said this is something he hears often from residents. He said he thought having QR codes for additional resources would be a good improvement and would like to see the Stewardship Council try to speed up the process of moving this along. David said there have been many discussions about this issue, including ideas about having different layers of information, and possibly even bringing in a third party to develop such information. In response to Deven's inquiry about the timing for this and possibly getting it moving more quickly, David noted that decision-makers from DOE and USFWS were on the call, and he would follow-up with them on this topic to see what can be done. David also encouraged the Board to follow up with their federal representatives about this topic, especially Rep. Perlmutter, Rep. Neguse and Sen. Bennett.

2022 Budget – Initial Review

At this meeting, the Board reviewed the draft 2022 budget. The budget hearing and adoption of the 2022 budget will take place at the November 1st meeting. David noted two changes from the draft as presented in the Board meeting packet –- (1) a fee increase for staffing, and (2) a budget line-item for meeting room rental fees (based on the expectation of meeting in person in 2022). David noted they were in the process of finding a larger meeting room that was more conducive to COVID protocols. Other than these two items, the remainder of the budget was fairly static. Ken Lish asked why the grant amount was higher for 2022, given that the Stewardship Council underspends each year. David noted that DOE has expressed appreciation for the manner in which the Stewardship Council manages its spending, and the increased allotment came from them. David also explained that the organization routinely over-budgets as a way to avoid supplemental budget hearings.

Board Roundtable: There were no updates.

Big Picture/Additional Questions/Issue Identification:

November 1, 2021

Business Items

- Adopt 2022 work plan
- Adopt 2022 budget
- New member interviews & appointments

Briefing Items

- DOE Quarterly Update
- Overview of CERCLA Five Year Review

February 7, 2022

Business Items

- Elect 2022 Officers
- Adopt resolution re: 2022 meeting date

Briefing Items

- DOE Quarterly Update

Issues to watch:

- Changes at SPPTS
- Status of OLF
- Uranium exceedances in surface water
- Trichloroethylene (TCE) exceedances in groundwater
- North Walnut Creek slump

The meeting was adjourned at 10:33 am.

Respectfully submitted by Erin Rogers.

ROCKY FLATS STEWARDSHIP COUNCIL
Monday, November 1, 2021
8:30 – 10:35 AM
Virtual Meeting via WebEx

Board members in attendance: Nancy Ford (Director, Arvada), Sandra McDonald (Alternate, Arvada), Clare Levy (Director, Boulder County), Sam Weaver (Director, City of Boulder), Mirabai Nagle (Alternate, City of Boulder), Deven Shaff (Director, Broomfield), Heidi Henkel (Alternate, Broomfield), David Allen (Alternate, Broomfield), Jim Dale (Director, Golden), Bill Fisher (Alternate, Golden), Pat O'Connell (Alternate, Jefferson County), Joyce Downing (Director, Northglenn), Shelley Stanley (Alternate, Northglenn), Mark Lacis (Director, Superior), Jan Kulmann (Director, Thornton), James Boswell (Alternate, Thornton), Kathryn Skulley (Director, Westminster), Rich Seymour (Alternate, Westminster), Trea Nance (Alternate, Westminster), Jeannette Hillery (Director, League of Women Voters), Linda Porter (Alternate, League of Women Voters), Murph Widdowfield (Director, Rocky Flats Homesteaders), Kim Griffiths (Director/Citizen)

Stewardship Council staff members and consultants in attendance: David Abelson (Executive Director), Melissa Weakley (Technical Program Manager), Barb Vander Wall (Seter & Vander Wall, P.C)

Attendees: Gwen Hooten (DOE-LM), Andy Keim (DOE-LM), Padraic Benson (DOE-LM), Alison Kuhlman (DOE-LM), Nicole Lachance (RSI Entech), Dana Santi (RSI Entech), John Boylan (RSI Entech), George Squibb (RSI Entech), Harry Bolton (RSI Entech), Jody Nelson (RSI Entech), Chris Stewart (RSI Entech), Karin McShea (RSI Entech), Patti Gallo (RSI Entech), Ryan Wisniewski (RSI Entech), Faith Anderson (RSI Entech), Yvonne Deyo (RSI Entech), Lindsey Murl (CDPHE), Lindsey Archibald (CDPHE), Ashley Witkovich (Northglenn), Laura Hubbard (Broomfield), Shirley Garcia, Carl Spreng, Lynn Segal, Giselle Hertzfeld, Usama Khalid, Joan Seeman, Chris Allred, Jake Moyer, Nathan Krohn

Convene/Agenda Review: Joyce Downing convened the meeting at 8:30 am.

Public Comment
Lynn Segal: Lynn spoke about technical difficulties with accessing the Stewardship Council virtual meetings.

Usama Khalid: Usama wanted to acknowledge indigenous tribes that were the original stewards of the land. She also encouraged the Stewardship Council to include more diverse representation on the Board.

Giselle Herzfeld: Giselle referred to the Rocky Flats Stewardship Council budget and the fact that most of the funding comes from the DOE. She spoke about her concern that this creates an incentive for the Stewardship Council leadership to promote the DOE narrative at Rocky Flats. She believes this is to uphold the nuclear weapons complex more than protecting public safety. She also expressed her concern about what she viewed as racist language referring to 'illegal aliens' on page 15 of the Board packet. Barb Vander Wall explained that the law that this language was based on was recently changed and this can be addressed during the upcoming contract discussion.

Chris Allred: Chris pointed out that the new Board member application requires that conflicts of interest be shared, but he believes that the Stewardship Council itself has a conflict of interest due to receiving

most of its funding from DOE. He believes that DOE funding should be rejected. He also spoke about broader concerns about historical and continuing activities related to the production of nuclear weapons and the effects on surrounding populations.

Joan Seeman: Joan called Rocky Flats a Superfund site currently in operations and maintenance. She said the Five-Year Review was very important and the community was unaware it was happening. She asked whether the Stewardship Council had formally responded to any of the previous Five-Year Reviews. She referred to a DOE/EPA/CDPHE fact sheet on Rocky Flats that promoted residential development. She said no health risk assessment was completed at Rocky Flats for all contaminants combined. She was also concerned about the lack of air monitoring at Rocky Flats.

Consent Agenda: The consent agenda included the checks written since the September 13, 2021, meeting, and a contract amendment (to include revised language replacing 'illegal aliens'). Jeannette Hillery moved to approve consent agenda. The motion was seconded by Jan Kulmann. The motion passed 14-0.

Executive Director's Report: David Abelson began by noting that this meeting would be the last for five elected officials: Nancy Ford (Arvada), Sam Weaver (Boulder), Mirabai Nagle (Boulder), Jim Dale (Golden), and Joyce Downing (Northglenn). He thanked each for their service to their communities and for their service to the Stewardship Council. David also thanked Joyce for her committed, steady leadership as the chair of the Stewardship Council, noting that the position requires looking beyond one's own personal and governmental interest and placing the Stewardship Council first. It requires being a leader in the truest and best sense of the word, and Joyce embodied that vision. Due to the turnover, David said that at the April 4, 2022, meeting, he would discuss the role of the Stewardship Council. Finally, David mentioned that the Environmental Protection Agency would begin a nationwide rulemaking to list certain PFAS chemicals under the federal Resource Recovery and Conservation Act (RCRA).

2022 Work Plan – Approval: David noted that the work plan was presented and discussed at the September 2021 meeting. Nancy Ford referred to the part of the workplan that mentions working with DOE on the development of interpretive signage for Rocky Flats "as opportunities allow." She expressed her displeasure with the lack of input and influence by the Stewardship Council on this issue.

Jan Kulmann moved to approve the 2022 Work Plan. The motion was seconded by Roman Kohler. The motion to accept the work plan passed 14-0.

2022 Budget – Budget Hearing and Adoption: The Board reviewed the draft budget at the September 2021 meeting. No changes were offered. Prior to finalizing the budget, the Board must hold a budget hearing and allow time for public comment. Following the public hearing, the Board must approve the budget resolution.

Barb Vander Wall explained the budget hearing process, in which the Chair opens the hearing, comments are received and then the Chair closes the hearing. She explained that the Stewardship Council is a unit of local government, a political subdivision under Colorado law, and that one of its obligations is to adopt a budget on an annual basis showing its revenues and expenditures. This process is to be completed by the end of the year and filed by the end of January. A notice of this public budget hearing was published.

Joyce Downing officially opened the hearing for the 2022 budget. She asked for public comments. Chris Allred expressed concern about DOE funding and conflicts of interest involving the Stewardship Council and its paid staff. He stated his belief that the Stewardship Council should be reorganized with an elected official serving as Executive Director, since this would be someone who was accountable to citizens. He urged the Stewardship Council to reject DOE funding. Lynn Segal commented on the lack of attendance at the Stewardship Council meetings. She also spoke about her mother dying from cancer, explaining that if the Stewardship Council accepts grant funding from DOE they are contributing to the continuation of that legacy.

Jim Dale moved to approve the 2022 Budget. The motion was seconded by Jan Kulmann. The motion to accept the budget passed 14-0.

Community Representatives Appointments: Joyce noted that there had been three applicants for the two open non-governmental seats on the Stewardship Council. They were the League of Women Voters, the Rocky Flats Homesteaders, and the Friends of the Front Range Wildlife Refuge. She said that the application from the Friends of the Front Range Wildlife Refuge had been withdrawn. Since the remaining two applicants are existing members of the Stewardship Council, Joyce suggested that the interview step be waived and that the Stewardship Council move forward with approval.

Nancy Ford commented that the application from the League of Women Voters was not very thorough in terms of explaining the value that they bring to the Stewardship Council. She further stated she does not recall that the League had sent members to the meetings, and generally questioned whether they were involved as claimed in the application. David Abelson noted that the League, and their representative Jeannette Hillery, have been very involved in attending meetings, serving on the Executive Committee, and even serving as Chair. Jeannette went on to detail her history being involved in Rocky Flats issues long before the Stewardship Council existed. She said she had attended nearly every Stewardship Council meeting over the past 14 years and has expertise in understanding water quality issues affecting Rocky Flats.

Claire Levy asked whether these appointments were for the organizations or for the individuals. David explained that the organizations are appointed to the Stewardship Council, and they select a member and an alternate. Jim Dale commended the League of Women Voters on all their efforts, and he finds their work very thoughtful and meaningful. Roman Kohler noted that the Homesteaders were chartered in the 1980s and that he has been involved since the 1990s. He said that they are focused on issues involving former workers and related exposure from their time at Rocky Flats.

Jan Kulmann moved to appoint the League of Women Voters and Rocky Flats Homesteaders to the Stewardship Council for a two-year term commencing February 2022. The motion was seconded by Deven Shaff. The motion passed 10-0 (only local governments vote to appoint members.)

Host DOE Quarterly Meeting: DOE was on hand to brief regarding on the second quarter 2021 Report. The Rocky Flats Site remedy components include:

- Maintain two landfill covers
- Maintain three groundwater treatment systems
- Monitor surface water and groundwater

- Maintain physical controls
    - Signage
    - Access restriction
- Institutional controls
    - No occupied building construction
    - Excavation and soil-disturbance restrictions
    - No surface water consumption or agricultural use
    - No groundwater wells, except for monitoring
    - Protection of landfill covers and engineered remedy components

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

Surface Water Monitoring – George Squibb
George began with a quick review of the monitoring requirements and map of locations andmonitoring sites, noting the list of constituents which are monitored.

Performance monitoring of the Original Landfill (OLF) included routine surface water sampling in Woman Creek, downstream of the OLF (GS59). Results for the second quarter of 2021 showed mean concentrations for all analytes below applicable RFLMA water quality standards

At the Present Landfill Treatment System (PLFTS) system effluent, concentrations for all analytes were below applicable RFLMA standards in the second quarter.

George moved on to a review of Point of Evaluation (POE) monitoring at GS10. The 12-month average uranium concentration for April 30 triggered a reportable condition. The concentration was 18.1 mg/L, above the 16.8 mg/L RFLMA standard.

- Validated data were received June 3, formal notification to regulators and stakeholders was made on June 17.
- The 12-month average on May 31 was 12.4 mg/L, ending the reportable condition.
- Uranium concentrations at the downstream Point of Compliance (POC) WALPOC have remained well below 16.8 mg/L.
- Contact Record 2021-02 documents the RFLMA consultation and path forward.

At the POE SW027, the 12-month average plutonium concentration for April 30 triggered a reportable condition. The concentration was 0.9 pCi /L, above the 0.15 pCi /L RFLMA

- Validated data were received June 11, formal notification to regulators and stakeholders was made on June 24.
- The 12-month average on May 31 was 0.061 pCi /L, ending the reportable condition
- Plutonium concentrations at the downstream POC WOMPOC have remained well below 0.15 pCi/L.
- Contact Record 2021-03 documents the RFLMA consultation and path forward.

No other POE analyte concentrations were reportable during the second quarter and no POC concentrations were reportable during the quarter.

Shelley Stanley asked George to share with the public how they can receive the notices of exceedances or contact records. George said he would check on this. He added that there is an email address people can use to send in questions and comments – rfinfo@lm.doe.gov

Groundwater Monitoring – John Boylan

John first reviewed the RFLMA monitoring network, which includes:

- 10 Resource Conservation and Recovery Act (RCRA) wells (sampled quarterly to evaluate potential impacts from OLF and PLF)
- 9 Area of Concern (AOC) wells and one Surface Water Support location (sampled semiannually). These are located in drainages downstream of contaminant plumes and are evaluated for plumes discharging to surface water
- 27 Sentinel wells (sampled semiannually). These are downgradient of treatment systems, edges of plumes, and in drainages, and are used to look for plumes migrating to surface water and treatment system problems
- 42 evaluation wells (sampled biennially). These are located within plumes, near source areas, and interior of Central Operable Unit (COU) and are used to evaluate whether monitoring of an area or plume can cease
- 9 treatment system locations (seven are sampled semiannually, and two are quarterly)

During the second quarter, all wells except the Evaluation wells were sampled. Results were generally consistent with previous data. Data will be evaluated as part of the 2021 annual report.

John next provided updates on the Mound Site Plume Collection System (MSPCS), East Trenches Plume Treatment System (ETPTS), Solar Ponds Plume Treatment System (SPPTS), and PLFTS. Activities included:

- Routine maintenance at all systems
- Replaced effluent pump at ETPTS
- Adjusted nutrient dose rate at SPPTS as air temperatures warmed
- Continued evaluating groundwater conditions west of existing SPPTS collection trench

Site Operations – Harry Bolton

Harry reported that, as required, RFLMA physical controls were verified during the quarter. Signs were inspected in May, and all were found to be in good condition and legible.

At the Original Landfill, monthly inspections performed April 23, May 17, and June 25. Erosion rills were observed during inspections above Berms 5 and 6, above the east subsurface drain outfall channel, and along the west perimeter. All have since been repaired.

Weather-related inspections were performed May 5 and June 29. Erosion rills above Berms 5 and 6 were found and have since been repaired and sediment removed.

Maintenance was performed on the OLF on April 12. Eight depressions aligning with gaps between anchor blocks above east Berm 6 were filled in with hand tools using surrounding soil. No reappearance was seen later in the quarter.

Additional maintenance was performed May 18 -20:

- Rills and gullies along West Perimeter Channel repaired with excavator, reseeded, covered in Turf Reinforcement Matting (TRM) and GeoRidges
- Rill between West Perimeter Channel and Berm 3 channel smoothed with hand tools and covered in in TRM
- Rills above Berms 5 and 6 smoothed with hand tools
- Sediment removed from perimeter channel GeoRidges (and throughout quarter)

Settlement monuments at the OLF were surveyed on June 1. Vertical settling was within design limits. Areas of stabilization activities remain stable and in good condition.

At the Present Landfill (PLF), the quarterly inspection was combined with a weather-related inspection on May 5. An additional weather-related inspection was performed on June 29. The PLF is in good condition.

At the former Building Areas 371, 771, 881, and 991, a quarterly inspection was completed in combination with a weather-related inspection on April 28, 2021. No new erosion, subsidence or anomalies were observed.

At the North Walnut Creek Slump, continued data collection from inclinometers and piezometers was conducted where possible. Other notes about this location include:

- Slump monitoring points were surveyed on April 7, May 10, and June 1
- Vertical and lateral hillside movement both approximately 0.70 feet on average
- Total vertical movement since baseline (September 5, 2017) was approximately 4.3 feet

Shelley Stanley asked how much material was needed to fill the depressions caused by the anchor blocks on the OLF. Harry said this was done with hand tools and a bucket, so it was a very small amount. Jeannette Hillery asked whether they were seeing much growth on the revegetation in stabilization areas. Harry said it has come in extremely well, much better than expected. Jeannette asked whether revegetation would help with stabilization on the North Walnut Creek slump. Harry said the movement in that area appears to be at depth. He said the main focus at that site was to preserve groundwater collection and treatment, but stabilization was done as needed. Nancy Ford asked if there was a requirement to wet down soils when they do any excavation. Harry said the requirement is for zero dust, so they do their best effort at that. Nancy Ford asked about why there was not concern about the public being exposed to dust while recreating on the Refuge. Harry explained that they are very careful when conducting potential dust-producing activities, especially any construction, and if anything was observed that could be unsafe, they do not hesitate to shut down these activities. He further added that the concern with dust was silica, not radionuclides.

Ecology – Jody Nelson

Jody provided an update on several ecology activities at the site. These included:

- Weed mapping
- Nest box surveys
- Wetland water level monitoring
- Seeded showy milkweed monitoring
- Game camera monitoring

- Commercial herbicide applications (approximately 141 acres treated)
- Contractor spot herbicide applications (small targeted applications)
- Prairie dog surveys (no active prairie dog towns in or near COU)
- Preparing for third quarter revegetation monitoring, Preble's mouse monitoring, wetland monitoring, and other activities

Shelley Stanley brought up past use of biological agents to control weeds and asked whether they were still being used, or if they had become established. Jody said that many have been established. He said there was a list of these in the Vegetation Management Plan on the website. If any new ones come out, they will continue to utilize as available.

Five-Year Review – Patti Gallo

Patti provided the group with an overview of the upcoming Rocky Flats Five-Year Review. In terms of background, the remedy selected in the Corrective Action Decision/Record of Decision (CAD/ROD) is comprised of institutional and physical controls, incorporating continued monitoring and maintenance.

The purpose of the Five-Year Review is to determine if a site remedy is protective of human health and the environment. The team completing the review is composed of the U.S. Department of Energy, Office of Legacy Management (LM), U.S. Environmental Protection Agency (EPA), Colorado Department of Health and Environment, and the LM contractor.

The fourth Rocky Flats Site Five-Year Review was completed in August 2017. Results then showed that: "The remedy at the COU is protective of human health and the environment".

- https://www.lm.doe.gov/Rocky_Flats/Regulations.aspx

Patti reviewed the steps for completing the Five-Year Review:

- Notify Public
    - Start public notice in September 2021
    - End notice planned for August 2022
- Document and Data Review
    - CAD/ROD and amendment, Explanation of Significant Differences
    - Applicable documents in this Five-Year Review period (2017 through 2021)
        - RFLMA annual and quarterly reports, contact records, site inspections
    - Monitoring data set comprises validated data from January 2017 through December 2021
- Site Inspection
    - Annual RFLMA inspection results through spring 2022 (expected next inspection)
- Assess Protectiveness
    - Technical Assessment
    - Protectiveness Statement

Patti explained more details about the Technical Assessment. Remedial Action Objectives must be considered during the technical assessment. The assessment addresses three questions to assess the protectiveness of a remedy:

- Is the remedy working?
- Are exposure assumptions still valid?

- Is there anything else to consider?

Potential Protectiveness Statements can include:

- Protective
- Short -Term Protective
- Will be Protective
- Protection Deferred
- Not Protective

Five-Year Review conclusions will be based on information reviewed and technical assessment results, LM will document the review in an Five-Year Review report that:

- Selects the most appropriate protectiveness statement
- Identifies issues
- Recommends follow-up actions

EPA will either concur with the LM protectiveness determination or make an independent finding. The EPA response is to be issued in August 2022.

Patti was asked whether there was a requirement for public review or a public hearing on a draft document. She said there was not. David Abelson pointed out that this briefing was above and beyond what was required by CERCLA. It was requested of DOE, and they agreed to provide this as an opportunity for community knowledge about the process. Patti pointed out that the information looked at as part of this process is all publicly available. Shelley Stanley asked if the Five-Year Review was an appropriate place to bring up concerns about PFAS. Patti said it is an appropriate time for these types of questions, and the review will look at contaminants not looked at during the original cleanup. She said public comments are welcomed during the process. Nancy Ford asked whether the potential effects of climate change would be considered. Patti said yes, and that this was one of the key topics that will be looked at as part of question 3 that she mentioned earlier.

Board Roundtable: There were no updates.

Big Picture/Additional Questions/Issue Identification:

February 7, 2022

Potential Business Items

- Elect 2022 Officers
- Adopt Resolution re: 2022 Meeting Dates

Potential Briefing Items

- DOE Quarterly Update
- CERCLA Five-Year Review

April 4, 2022

Potential Briefing Items

- Rocky Flats Stewardship Council Overview
- USFWS Refuge Discussion

Issues to watch:

- Changes at SPPTS
- Stability of Original Landfill
- Uranium and plutonium reportable conditions
- Trichloroethylene (TCE) exceedances in groundwater
- North Walnut Creek slump

The meeting was adjourned at 10:35 am.

Respectfully submitted by Erin Rogers.

Rocky Flats Stewardship Council
Check Detail 2021
October 12, 2021 through January 14, 2022

Type	Num	Date	Name	Account	Paid Amount	Original Amount
Check		**10/26/2021**		**CASH-Wells Fargo-Opera...**		**-3.50**
				Admin Services-Misc Servi...	-3.50	3.50
TOTAL					-3.50	3.50
Check		**11/26/2021**		**CASH-Wells Fargo-Opera...**		**-3.50**
				Admin Services-Misc Servi...	-3.50	3.50
TOTAL					-3.50	3.50
Check	**2116**	**11/03/2021**	**Century Link**	**CASH-Wells Fargo-Opera...**		**-29.27**
				Telecommunications	-29.27	29.27
TOTAL					-29.27	29.27
Bill Pmt -Check	**2117**	**11/08/2021**	**Crescent Strategies, LLC**	**CASH-Wells Fargo-Opera...**		**-7,903.73**
Bill	10/31/2...	10/31/2021		Personnel - Contract	-7,750.00	7,750.00
				TRAVEL-Local	-23.52	23.52
				Postage	-17.99	17.99
				Telecommunications	-112.22	112.22
TOTAL					-7,903.73	7,903.73
Bill Pmt -Check	**2118**	**11/08/2021**	**Erin Rogers**	**CASH-Wells Fargo-Opera...**		**-200.00**
Bill	10/30/2...	10/31/2021		Personnel - Contract	-150.00	150.00
				Website	-50.00	50.00
TOTAL					-200.00	200.00
Bill Pmt -Check	**2119**	**11/08/2021**	**Jennifer A. Bohn**	**CASH-Wells Fargo-Opera...**		**-320.00**
Bill	21-63	10/31/2021		Accounting Fees	-320.00	320.00
TOTAL					-320.00	320.00
Bill Pmt -Check	**2120**	**11/08/2021**	**Seter & Vander Wall, P.C.**	**CASH-Wells Fargo-Opera...**		**-2,832.50**
Bill	82688	10/01/2021		Attorney Fees	-2,195.00	2,195.00
Bill	82850	10/31/2021		Attorney Fees	-637.50	637.50
TOTAL					-2,832.50	2,832.50
Check	**2121**	**12/10/2021**	**Century Link**	**CASH-Wells Fargo-Opera...**		**-28.25**
				Telecommunications	-28.25	28.25
TOTAL					-28.25	28.25
Bill Pmt -Check	**2122**	**12/10/2021**	**Crescent Strategies, LLC**	**CASH-Wells Fargo-Opera...**		**-8,376.93**
Bill	11/30/2...	11/30/2021		Personnel - Contract	-7,750.00	7,750.00
				TRAVEL-Local	-17.92	17.92
				Postage	-17.99	17.99
				Telecommunications	-112.22	112.22
				TRAVEL-Out of State	-478.80	478.80

Rocky Flats Stewardship Council
Check Detail 2021
October 12, 2021 through January 14, 2022

Type	Num	Date	Name	Account	Paid Amount	Original Amount
TOTAL					-8,376.93	8,376.93
Bill Pmt -Check	**2123**	**12/10/2021**	**Erin Rogers**	**CASH-Wells Fargo-Opera...**		**-225.00**
Bill	11/20/2...	11/20/2021		Personnel - Contract	-175.00	175.00
				Website	-50.00	50.00
TOTAL					-225.00	225.00
Bill Pmt -Check	**2124**	**12/10/2021**	**Jennifer A. Bohn**	**CASH-Wells Fargo-Opera...**		**-210.00**
Bill	21-73	11/30/2021		Accounting Fees	-210.00	210.00
TOTAL					-210.00	210.00
Bill Pmt -Check	**2125**	**12/10/2021**	**Seter & Vander Wall, P.C.**	**CASH-Wells Fargo-Opera...**		**-1,612.00**
Bill	82973	11/30/2021		Attorney Fees	-1,612.00	1,612.00
TOTAL					-1,612.00	1,612.00
Check	**2126**	**01/06/2022**	**Century Link**	**CASH-Wells Fargo-Opera...**		**-28.15**
				Telecommunications	-28.15	28.15
TOTAL					-28.15	28.15
Bill Pmt -Check	**2127**	**01/06/2022**	**Crescent Strategies, LLC**	**CASH-Wells Fargo-Opera...**		**-9,596.93**
Bill	12/31/2...	12/31/2021		Personnel - Contract	-7,750.00	7,750.00
				TRAVEL-Local	-62.72	62.72
				Postage	-405.99	405.99
				Telecommunications	-112.22	112.22
				TRAVEL-Out of State	-1,266.00	1,266.00
TOTAL					-9,596.93	9,596.93
Bill Pmt -Check	**2128**	**01/06/2022**	**Jennifer A. Bohn**	**CASH-Wells Fargo-Opera...**		**-190.00**
Bill	21-83	12/31/2021		Accounting Fees	-190.00	190.00
TOTAL					-190.00	190.00
Bill Pmt -Check	**2129**	**01/06/2022**	**Seter & Vander Wall, P.C.**	**CASH-Wells Fargo-Opera...**		**-3,186.81**
Bill	83090	12/31/2021		Attorney Fees	-3,186.81	3,186.81
TOTAL					-3,186.81	3,186.81

DOE Quarterly Report

- Cover memo
- Selection of quarterly report

ROCKY FLATS STEWARDSHIP COUNCIL

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Boulder, CO 80308-0670
www.rockyflatssc.org

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
Kim Griffiths

MEMORANDUM

TO: Stewardship Council Board of Directors
FROM: Melissa Weakley
SUBJECT: DOE's Quarterly Report Briefing
DATE: January 24, 2022

DOE will present an overview of remedy-related surveillance, monitoring, and maintenance activities conducted at Rocky Flats during the third quarter (July 1 to September 30) of calendar year 2021. The full report can be accessed here: https://lmpublicsearch.lm.doe.gov/lmsites/s37871_3q21%20quarterly%20report.pdf.

Quarterly Report Summary

- **Present Landfill (PLF)**: One quarterly inspection (August 23) and one weather-related inspection (July 2) were conducted. No issues were identified.

- **Original Landfill (OLF)**: Three monthly inspections (July 29, August 25, and September 29) and one weather-related inspection (July 2) were conducted.
    - During the July and August inspections, several inches of sediment buildup was noted on GeoRidges (plastic berms designed for erosion control) and near the end of the East Subsurface Drain solid pipe (not in use); the sediment was removed with hand tools.
    - Two new rows of GeoRidges were added to the East Perimeter Channel in early August.
    - Seeps were observed during the inspections but were consistent with previous third quarters.
    - DOE indicated it would continue RFLMA-required monthly inspections of the OLF through at least December 2021. Any reduction in inspection frequency would be evaluated using the RFLMA consultative process with CDPHE and EPA. (Note that the OLF is also inspected weekly as a Best Management Practice.)

- **Central Operable Unit (COU):** The COU was inspected for significant erosion following a major precipitation event in July. No new erosion, subsidence, or anomalies were noted.

- **North Walnut Creek Slump**
    - The hillside east of the Solar Ponds Plume Treatment System (SPPTS) is the site of a slump, called the North Walnut Creek Slump, that is monitored as a best management practice.
    - Slump movement continued during the quarter. The hillside has moved a total of 4 to 6 feet along the scarp since the hillside was regraded in 2017.

- **Groundwater Treatment Systems (East Trenches Plume Treatment System, Mound Site Plume Collection System, Solar Ponds Plume Treatment System, and Present Landfill Treatment System):** Routine maintenance of all four systems was performed. No significant issues were noted.

- **Groundwater Treatment System Monitoring:** Routine quarterly effluent samples were collected from the Present Landfill Treatment System on July 13. All analyte concentrations in the effluent samples were below applicable standards for the quarter.

- **Groundwater Monitoring:** Ten groundwater samples were collected and analyzed (see attached Monitoring Location figure).
    - Results were generally consistent with previous data and will be evaluated as part of the annual report for 2021.
    - Monitoring results are attached to this memo for the Board's and the public's convenience and to highlight the extent of the testing program.

- **Surface Water Monitoring:** A total of 6 composite surface water samples, 3 surface water grab samples, and 14 treatment system grab samples were collected and analyzed (see attached Monitoring Location figure).
    - All analyte concentrations at RFLMA Point of Evaluation locations GS10, SW027, and SW093 remained below reportable condition levels throughout the quarter.
    - All analyte concentrations at RFLMA Point of Compliance locations WALPOC and WOMPOC also remained below reportable condition levels throughout the quarter.
    - As with groundwater monitoring results, surface water monitoring results are attached to this memo.

Attachments

Q3 2021 Report Cover Page, Table of Contents, and Abbreviations
Rocky Flats Site Water Monitoring Locations
Analytical Results for Water Samples

LMS/RFS/S37871

Rocky Flats Site, Colorado, Quarterly Report of Site Surveillance and Maintenance Activities Third Quarter, Calendar Year 2021

January 2022

U.S. DEPARTMENT OF ENERGY | Legacy Management

This document has been designed for online viewing

Contents

Figures

Appendixes

Abbreviations

Am	americium
AOC	Area of Concern
BMP	best management practice
CAD/ROD	Corrective Action Decision/Record of Decision
COU	Central Operable Unit
CY	calendar year
DOE	U.S. Department of Energy
EPC	East Perimeter Channel
ESSD	East Subsurface Drain
ETPTS	East Trenches Plume Treatment System
IC	institutional control
ITS	Interceptor Trench System
LM	Office of Legacy Management
mg/L	milligrams per liter
µg/L	micrograms per liter
MSPCS	Mound Site Plume Collection System
N	nitrogen
OLF	Original Landfill
pCi/L	picocuries per liter
PLF	Present Landfill
PLFTS	Present Landfill Treatment System
PMJM	Preble's meadow jumping mouse
POC	Point of Compliance
POE	Point of Evaluation
Pu	plutonium
RCRA	Resource Conservation and Recovery Act
RFLMA	*Rocky Flats Legacy Management Agreement*
RFSOG	Rocky Flats Site Operations Guide
SPPTS	Solar Ponds Plume Treatment System
USFWS	U.S. Fish and Wildlife Service

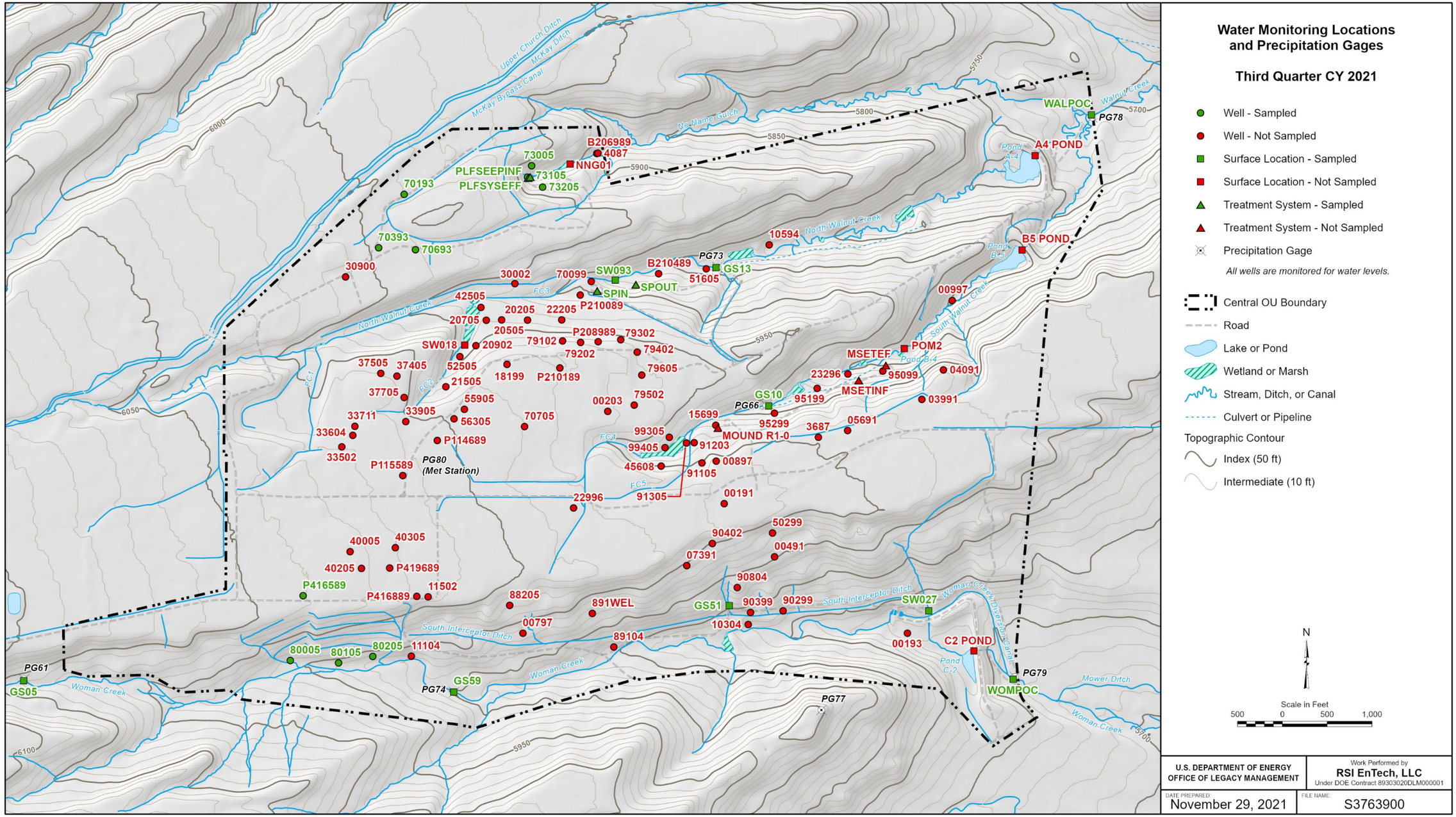

Figure 1. Rocky Flats Site Water Monitoring Locations and Precipitation Gages

RFLMA Data

LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER- TAINTY	DATA VALIDATION QUALIFIERS
70193	WL	7/13/2021	RFS01-10.2106037-033	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-41-7	Beryllium	Y	0.15	ug/L	J	F	0.08		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-42-8	Boron	Y	14	ug/L	J	F	4.4		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7439-97-6	Mercury	Y	0.082	ug/L	J	F	0.027		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-02-0	Nickel	Y	0.35	ug/L	J	F	0.3		FQU
70193	WL	7/13/2021	RFS01-10.2106037-033	7782-49-2	Selenium	Y	3.9	ug/L		F	0.37		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-22-4	Silver	Y	0.048	ug/L	J	F	0.033		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-61-1	Uranium	Y	0.18	ug/L		F	0.05		FQU
70193	WL	7/13/2021	RFS01-10.2106037-033	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ
70193	WL	7/13/2021	RFS01-10.2106037-033	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	75-35-4	1,1-Dichloroethene	N	1.4	ug/L		F	0.23		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ

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LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER- TAINTY	DATA VALIDATION QUALIFIERS
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-42-8	Boron	Y	5.7	ug/L	J	F	4.4		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7439-97-6	Mercury	Y	0.059	ug/L	J	F	0.027		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-02-0	Nickel	Y	0.89	ug/L	J	F	0.3		FQU
70393	WL	7/12/2021	RFS01-10.2106037-034	7782-49-2	Selenium	Y	1.2	ug/L	J	F	0.37		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	127-18-4	Tetrachloroethene	N	0.76	ug/L	J	F	0.2		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	79-01-6	Trichloroethene	N	4.8	ug/L		F	0.16		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-61-1	Uranium	Y	0.05	ug/L	U	F	0.05		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ
70393	WL	7/12/2021	RFS01-10.2106037-034	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ
70693	WL	7/12/2021	RFS01-10.2106037-035	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		F
70693	WL	7/12/2021	RFS01-10.2106037-035	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		F
70693	WL	7/12/2021	RFS01-10.2106037-035	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		F
70693	WL	7/12/2021	RFS01-10.2106037-035	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		F
70693	WL	7/12/2021	RFS01-10.2106037-035	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		F
70693	WL	7/12/2021	RFS01-10.2106037-035	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		F
70693	WL	7/12/2021	RFS01-10.2106037-035	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		F
70693	WL	7/12/2021	RFS01-10.2106037-035	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		F
70693	WL	7/12/2021	RFS01-10.2106037-035	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		F
70693	WL	7/12/2021	RFS01-10.2106037-035	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		F
70693	WL	7/12/2021	RFS01-10.2106037-035	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-42-8	Boron	Y	26	ug/L	J	F	4.4		F
70693	WL	7/12/2021	RFS01-10.2106037-035	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		F
70693	WL	7/12/2021	RFS01-10.2106037-035	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		F
70693	WL	7/12/2021	RFS01-10.2106037-035	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		F
70693	WL	7/12/2021	RFS01-10.2106037-035	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		F
70693	WL	7/12/2021	RFS01-10.2106037-035	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		F
70693	WL	7/12/2021	RFS01-10.2106037-035	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-50-8	Copper	Y	0.65	ug/L	J	F	0.56		F
70693	WL	7/12/2021	RFS01-10.2106037-035	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		F

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LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER- TAINTY	DATA VALIDATION QUALIFIERS
70693	WL	7/12/2021	RFS01-10.2106037-035	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7439-97-6	Mercury	Y	0.048	ug/L	J	F	0.027		F
70693	WL	7/12/2021	RFS01-10.2106037-035	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		F
70693	WL	7/12/2021	RFS01-10.2106037-035	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-02-0	Nickel	Y	0.81	ug/L	J	F	0.3		FU
70693	WL	7/12/2021	RFS01-10.2106037-035	7782-49-2	Selenium	Y	1.2	ug/L	J	F	0.37		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-22-4	Silver	Y	0.036	ug/L	J	F	0.033		F
70693	WL	7/12/2021	RFS01-10.2106037-035	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		F
70693	WL	7/12/2021	RFS01-10.2106037-035	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		F
70693	WL	7/12/2021	RFS01-10.2106037-035	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		F
70693	WL	7/12/2021	RFS01-10.2106037-035	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		F
70693	WL	7/12/2021	RFS01-10.2106037-035	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		F
70693	WL	7/12/2021	RFS01-10.2106037-035	79-01-6	Trichloroethene	N	0.6	ug/L	J	F	0.16		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-61-1	Uranium	Y	0.05	ug/L	U	F	0.05		F
70693	WL	7/12/2021	RFS01-10.2106037-035	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		F
70693	WL	7/12/2021	RFS01-10.2106037-035	7440-66-6	Zinc	Y	2	ug/L	U	F	2		F
73005	WL	7/12/2021	RFS01-10.2106037-036	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-42-8	Boron	Y	38	ug/L		F	4.4		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-50-8	Copper	Y	0.7	ug/L	J	F	0.56		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7439-97-6	Mercury	Y	0.082	ug/L	J	F	0.027		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-02-0	Nickel	Y	1.1	ug/L	J	F	0.3		FQU
73005	WL	7/12/2021	RFS01-10.2106037-036	7782-49-2	Selenium	Y	4.2	ug/L		F	0.37		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ

RFLMA Data

LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER- TAINTY	DATA VALIDATION QUALIFIERS
73005	WL	7/12/2021	RFS01-10.2106037-036	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-61-1	Uranium	Y	33	ug/L		F	0.05		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ
73005	WL	7/12/2021	RFS01-10.2106037-036	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-42-8	Boron	Y	110	ug/L		F	4.4		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7439-97-6	Mercury	Y	0.056	ug/L	J	F	0.027		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-02-0	Nickel	Y	1.7	ug/L	J	F	0.3		FQU
73105	WL	7/12/2021	RFS01-10.2106037-037	7782-49-2	Selenium	Y	0.37	ug/L	U	F	0.37		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-61-1	Uranium	Y	19	ug/L		F	0.05		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ
73105	WL	7/12/2021	RFS01-10.2106037-037	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ

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73205	WL	7/13/2021	RFS01-10.2106037-038	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-38-2	Arsenic	Y	0.5	ug/L	J	F	0.33		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-42-8	Boron	Y	66	ug/L		F	4.4		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-50-8	Copper	Y	0.99	ug/L	J	F	0.56		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7439-97-6	Mercury	Y	0.045	ug/L	J	F	0.027		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-02-0	Nickel	Y	1.8	ug/L	J	F	0.3		FQU
73205	WL	7/13/2021	RFS01-10.2106037-038	7782-49-2	Selenium	Y	270	ug/L		F	0.37		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-61-1	Uranium	Y	120	ug/L		F	0.05		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ
73205	WL	7/13/2021	RFS01-10.2106037-038	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	D	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	D	0.21		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	D	0.27		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	D	0.23		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	D	0.21		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	D	0.15		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	D	0.13		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	D	0.18		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	D	0.13		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	D	0.16		FQ

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80005	WL	7/12/2021	RFS01-10.2106037-039	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	91-58-7	2-Chloronaphthalene	N	0.27	ug/L	U	D	0.27		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	91-58-7	2-Chloronaphthalene	N	0.26	ug/L	U	F	0.26		FQ
80005	WL	7/12/2021	RFS01-10.2106037-017	83-32-9	Acenaphthene	N	0.024	ug/L	J	D	0.021		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	83-32-9	Acenaphthene	N	0.021	ug/L	U	F	0.021		FQ
80005	WL	7/12/2021	RFS01-10.2106037-017	120-12-7	Anthracene	N	0.027	ug/L	U	D	0.027		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	120-12-7	Anthracene	N	0.027	ug/L	U	F	0.027		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-38-2	Arsenic	Y	0.33	ug/L	U	D	0.33		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	71-43-2	Benzene	N	0.16	ug/L	U	D	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-017	50-32-8	Benzo(a)pyrene	N	0.0098	ug/L	U	D	0.0098		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	50-32-8	Benzo(a)pyrene	N	0.0098	ug/L	U	F	0.0098		FQ
80005	WL	7/12/2021	RFS01-10.2106037-017	191-24-2	Benzo(g,h,i)Perylene	N	0.015	ug/L	U	D	0.015		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	191-24-2	Benzo(g,h,i)Perylene	N	0.015	ug/L	U	F	0.015		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-41-7	Beryllium	Y	0.08	ug/L	U	D	0.08		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	108-60-1	Bis(2-chloroisopropyl) ether	N	0.29	ug/L	U	D	0.29		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	108-60-1	Bis(2-chloroisopropyl) ether	N	0.28	ug/L	U	F	0.28		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	117-81-7	Bis(2-ethylhexyl) phthalate	N	2.1	ug/L	J	D	0.57		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	117-81-7	Bis(2-ethylhexyl) phthalate	N	2.1	ug/L	J	F	0.57		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-42-8	Boron	Y	39	ug/L		D	4.4		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-42-8	Boron	Y	40	ug/L		F	4.4		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	75-25-2	Bromoform	N	0.46	ug/L	U	D	0.46		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-43-9	Cadmium	Y	0.27	ug/L	U	D	0.27		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	D	0.19		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	108-90-7	Chlorobenzene	N	0.17	ug/L	U	D	0.17		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	67-66-3	Chloroform	N	0.16	ug/L	U	D	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	74-87-3	Chloromethane	N	0.3	ug/L	U	D	0.3		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-47-3	Chromium	Y	0.5	ug/L	U	D	0.5		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
80005	WL	7/12/2021	RFS01-10.2106037-017	218-01-9	Chrysene	N	0.023	ug/L	U	D	0.023		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	218-01-9	Chrysene	N	0.023	ug/L	U	F	0.023		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	D	0.15		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-50-8	Copper	Y	1.1	ug/L	J	D	0.56		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-50-8	Copper	Y	0.98	ug/L	J	F	0.56		FQ
80005	WL	7/12/2021	RFS01-10.2106037-017	53-70-3	Dibenz(a,h)anthracene	N	0.0092	ug/L	U	D	0.0092		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	53-70-3	Dibenz(a,h)anthracene	N	0.0092	ug/L	U	F	0.0092		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	84-66-2	Diethyl phthalate	N	0.39	ug/L	U	D	0.39		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	84-66-2	Diethyl phthalate	N	0.39	ug/L	U	F	0.39		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	131-11-3	Dimethyl phthalate	N	0.22	ug/L	U	D	0.22		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	131-11-3	Dimethyl phthalate	N	0.21	ug/L	U	F	0.21		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	84-74-2	Di-n-butyl phthalate	N	1.2	ug/L	U	D	1.2		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	84-74-2	Di-n-butyl phthalate	N	1.2	ug/L	U	F	1.2		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	100-41-4	Ethylbenzene	N	0.16	ug/L	U	D	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ

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80005	WL	7/12/2021	RFS01-10.2106037-017	206-44-0	Fluoranthene	N	0.066	ug/L	U	D	0.066		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	206-44-0	Fluoranthene	N	0.066	ug/L	U	F	0.066		FQ
80005	WL	7/12/2021	RFS01-10.2106037-017	86-73-7	Fluorene	N	0.036	ug/L	U	D	0.036		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	86-73-7	Fluorene	N	0.036	ug/L	U	F	0.036		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	D	0.36		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	67-72-1	Hexachloroethane	N	1	ug/L	U	D	1		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	67-72-1	Hexachloroethane	N	1	ug/L	U	F	1		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	78-59-1	Isophorone	N	0.22	ug/L	U	D	0.22		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	78-59-1	Isophorone	N	0.21	ug/L	U	F	0.21		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7439-92-1	Lead	Y	0.18	ug/L	U	D	0.18		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7439-97-6	Mercury	Y	0.12	ug/L		D	0.027		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7439-97-6	Mercury	Y	0.074	ug/L	J	F	0.027		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	75-09-2	Methylene chloride	N	0.94	ug/L	U	D	0.94		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
80005	WL	7/12/2021	RFS01-10.2106037-017	91-20-3	Naphthalene	N	0.011	ug/L	J	D	0.01		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	91-20-3	Naphthalene	N	0.01	ug/L	U	F	0.01		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-02-0	Nickel	Y	0.78	ug/L	J	D	0.3		FQU
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-02-0	Nickel	Y	0.53	ug/L	J	F	0.3		FQU
80005	WL	7/12/2021	RFS01-10.2106037-017	129-00-0	Pyrene	N	0.015	ug/L	U	D	0.015		FQ
80005	WL	7/12/2021	RFS01-10.2106037-040	129-00-0	Pyrene	N	0.015	ug/L	U	F	0.015		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7782-49-2	Selenium	Y	0.67	ug/L	J	D	0.37		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7782-49-2	Selenium	Y	0.96	ug/L	J	F	0.37		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-22-4	Silver	Y	0.033	ug/L	U	D	0.033		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	100-42-5	Styrene	N	0.36	ug/L	U	D	0.36		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	D	0.2		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	108-88-3	Toluene	N	0.17	ug/L	U	D	0.17		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	1330-20-7	Total Xylenes	N	0.19	ug/L	U	D	0.19		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	D	0.15		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	79-01-6	Trichloroethene	N	0.16	ug/L	U	D	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-61-1	Uranium	Y	7.9	ug/L		D	0.05		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-61-1	Uranium	Y	7.3	ug/L		F	0.05		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	75-01-4	Vinyl chloride	N	0.1	ug/L	U	D	0.1		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ
80005	WL	7/12/2021	RFS01-10.2106037-016	7440-66-6	Zinc	Y	2	ug/L	U	D	2		FQ
80005	WL	7/12/2021	RFS01-10.2106037-039	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ

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80105	WL	7/12/2021	RFS01-10.2106037-041	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	F	0.25		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	83-32-9	Acenaphthene	N	0.021	ug/L	U	F	0.021		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	120-12-7	Anthracene	N	0.027	ug/L	U	F	0.027		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	50-32-8	Benzo(a)pyrene	N	0.0098	ug/L	U	F	0.0098		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	191-24-2	Benzo(g,h,i)Perylene	N	0.015	ug/L	U	F	0.015		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	F	0.27		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.55	ug/L	U	F	0.55		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-42-8	Boron	Y	120	ug/L		F	4.4		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	218-01-9	Chrysene	N	0.023	ug/L	U	F	0.023		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	53-70-3	Dibenz(a,h)anthracene	N	0.0092	ug/L	U	F	0.0092		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	84-66-2	Diethyl phthalate	N	0.37	ug/L	U	F	0.37		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	131-11-3	Dimethyl phthalate	N	0.2	ug/L	U	F	0.2		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	206-44-0	Fluoranthene	N	0.066	ug/L	U	F	0.066		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	86-73-7	Fluorene	N	0.036	ug/L	U	F	0.036		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	67-72-1	Hexachloroethane	N	0.96	ug/L	U	F	0.96		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	78-59-1	Isophorone	N	0.2	ug/L	U	F	0.2		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7439-97-6	Mercury	Y	0.057	ug/L	J	F	0.027		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
80105	WL	7/12/2021	RFS01-10.2106037-042	91-20-3	Naphthalene	N	0.01	ug/L	U	F	0.01		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-02-0	Nickel	Y	0.33	ug/L	J	F	0.3		FQU
80105	WL	7/12/2021	RFS01-10.2106037-042	129-00-0	Pyrene	N	0.015	ug/L	U	F	0.015		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7782-49-2	Selenium	Y	0.37	ug/L	U	F	0.37		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-22-4	Silver	Y	0.045	ug/L	J	F	0.033		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-61-1	Uranium	Y	13	ug/L		F	0.05		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ
80105	WL	7/12/2021	RFS01-10.2106037-041	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ

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80205	WL	7/12/2021	RFS01-10.2106037-043	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	F	0.25		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	83-32-9	Acenaphthene	N	0.021	ug/L	U	F	0.021		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	120-12-7	Anthracene	N	0.027	ug/L	U	F	0.027		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	50-32-8	Benzo(a)pyrene	N	0.0098	ug/L	U	F	0.0098		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	191-24-2	Benzo(g,h,i)Perylene	N	0.015	ug/L	U	F	0.015		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	F	0.27		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	117-81-7	Bis(2-ethylhexyl) phthalate	N	1.9	ug/L	J	F	0.55		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-42-8	Boron	Y	60	ug/L		F	4.4		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	218-01-9	Chrysene	N	0.023	ug/L	U	F	0.023		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-50-8	Copper	Y	0.69	ug/L	J	F	0.56		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	53-70-3	Dibenz(a,h)anthracene	N	0.0092	ug/L	U	F	0.0092		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	84-66-2	Diethyl phthalate	N	0.37	ug/L	U	F	0.37		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	131-11-3	Dimethyl phthalate	N	0.21	ug/L	U	F	0.21		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	206-44-0	Fluoranthene	N	0.066	ug/L	U	F	0.066		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	86-73-7	Fluorene	N	0.036	ug/L	U	F	0.036		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	67-72-1	Hexachloroethane	N	0.96	ug/L	U	F	0.96		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	78-59-1	Isophorone	N	0.21	ug/L	U	F	0.21		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7439-97-6	Mercury	Y	0.042	ug/L	J	F	0.027		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
80205	WL	7/12/2021	RFS01-10.2106037-044	91-20-3	Naphthalene	N	0.01	ug/L	U	F	0.01		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-02-0	Nickel	Y	2.2	ug/L		F	0.3		FQU
80205	WL	7/12/2021	RFS01-10.2106037-044	129-00-0	Pyrene	N	0.015	ug/L	U	F	0.015		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7782-49-2	Selenium	Y	0.55	ug/L	J	F	0.37		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-22-4	Silver	Y	0.043	ug/L	J	F	0.033		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	7440-61-1	Uranium	Y	32	ug/L		F	0.05		FQ
80205	WL	7/12/2021	RFS01-10.2106037-043	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ

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80205	WL	7/12/2021	RFS01-10.2106037-043	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ
GS05	SL	7/13/2021	RFS01-02.2107037-002	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		
GS05	SL	7/13/2021	RFS01-02.2107037-002	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		
GS05	SL	7/13/2021	RFS01-02.2107037-002	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		
GS05	SL	7/13/2021	RFS01-02.2107037-002	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		
GS05	SL	7/13/2021	RFS01-02.2107037-002	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		
GS05	SL	7/13/2021	RFS01-02.2107037-002	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		
GS05	SL	7/13/2021	RFS01-02.2107037-002	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		
GS05	SL	7/13/2021	RFS01-02.2107037-002	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		
GS05	SL	7/13/2021	RFS01-02.2107037-002	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		
GS05	SL	7/13/2021	RFS01-02.2107037-002	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		
GS05	SL	7/13/2021	RFS01-02.2107037-002	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		
GS05	SL	7/13/2021	RFS01-02.2107037-002	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		
GS05	SL	7/13/2021	RFS01-02.2107037-002	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		
GS05	SL	7/13/2021	RFS01-02.2107037-002	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		
GS05	SL	7/13/2021	RFS01-02.2107037-002	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		
GS05	SL	7/13/2021	RFS01-02.2107037-002	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		
GS05	SL	7/13/2021	RFS01-02.2107037-002	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		
GS05	SL	7/13/2021	RFS01-02.2107037-002	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		
GS05	SL	7/13/2021	RFS01-02.2107037-002	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		
GS05	SL	7/13/2021	RFS01-02.2107037-002	7439-97-6	Mercury	N	0.027	ug/L	U	F	0.027		
GS05	SL	7/13/2021	RFS01-02.2107037-002	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		
GS05	SL	7/13/2021	RFS01-02.2107037-002	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		
GS05	SL	7/13/2021	RFS01-02.2107037-002	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		
GS05	SL	7/13/2021	RFS01-02.2107037-002	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		
GS05	SL	7/13/2021	RFS01-02.2107037-002	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		
GS05	SL	7/13/2021	RFS01-02.2107037-002	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		
GS05	SL	7/13/2021	RFS01-02.2107037-002	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		
GS05	SL	7/13/2021	RFS01-02.2107037-002	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		
GS05	SL	7/13/2021	RFS01-02.2107037-002	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-38-2	Arsenic	N	2	ug/L	U	F	2		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-41-7	Beryllium	N	0.2	ug/L	U	F	0.2		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-42-8	Boron	N	9.41	ug/L	B	F	5.2		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-47-3	Chromium	N	3	ug/L	U	F	3		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-50-8	Copper	Y	0.426	ug/L	B*	F	0.3		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7439-92-1	Lead	Y	0.5	ug/L	U	F	0.5		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-02-0	Nickel	Y	0.6	ug/L	U	F	0.6		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7782-49-2	Selenium	N	1.5	ug/L	U	F	1.5		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-61-1	Uranium	N	0.333	ug/L	B	F	0.067		
GS05	SL	7/13/2021	RFS01-13.2111069-001	7440-66-6	Zinc	Y	3.3	ug/L	U	F	3.3		
GS10	SL	7/2/2021	RFS01-13.2107065-006	14596-10-2	Americium-241	N	0.0101	pCi/L	U	F		0.0127	
GS10	SL	7/2/2021	RFS01-13.2107065-006	7440-41-7	Beryllium	N	1	ug/L	U	F	1		
GS10	SL	7/2/2021	RFS01-13.2107065-006	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3		
GS10	SL	7/2/2021	RFS01-13.2107065-006	7440-47-3	Chromium	N	1	ug/L	U	F	1		
GS10	SL	7/2/2021	RFS01-13.2107065-006	PU-239,240	Plutonium-239, 240	N	0.00766	pCi/L	U	F		0.00869	
GS10	SL	7/2/2021	RFS01-13.2107065-006	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3		
GS10	SL	7/2/2021	RFS01-13.2107065-006	7440-61-1	Uranium	N	7.22	ug/L		F	0.067		
GS10	SL	7/14/2021	RFS01-13.2108066-001	14596-10-2	Americium-241	N	0.0352	pCi/L		D		0.0262	U
GS10	SL	7/14/2021	RFS01-13.2108066-006	14596-10-2	Americium-241	N	0.0641	pCi/L		F		0.0244	J
GS10	SL	7/14/2021	RFS01-13.2108066-001	7440-41-7	Beryllium	N	1	ug/L	U	D	1		
GS10	SL	7/14/2021	RFS01-13.2108066-006	7440-41-7	Beryllium	N	1	ug/L	U	F	1		

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GS10	SL	7/14/2021	RFS01-13.2108066-001	7440-43-9	Cadmium	Y	0.3	ug/L	U	D	0.3		
GS10	SL	7/14/2021	RFS01-13.2108066-006	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3		
GS10	SL	7/14/2021	RFS01-13.2108066-001	7440-47-3	Chromium	N	2.22	ug/L	J	D	1		
GS10	SL	7/14/2021	RFS01-13.2108066-006	7440-47-3	Chromium	N	2.2	ug/L	J	F	1		
GS10	SL	7/14/2021	RFS01-13.2108066-001	PU-239,240	Plutonium-239, 240	N	0.0397	pCi/L		D		0.0161	J
GS10	SL	7/14/2021	RFS01-13.2108066-006	PU-239,240	Plutonium-239, 240	N	0.0319	pCi/L		F		0.0133	J
GS10	SL	7/14/2021	RFS01-13.2108066-001	7440-22-4	Silver	Y	0.3	ug/L	U	D	0.3		
GS10	SL	7/14/2021	RFS01-13.2108066-006	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3		
GS10	SL	7/14/2021	RFS01-13.2108066-001	7440-61-1	Uranium	N	7.42	ug/L		D	0.067		
GS10	SL	7/14/2021	RFS01-13.2108066-006	7440-61-1	Uranium	N	7.4	ug/L		F	0.067		
GS10	SL	8/6/2021	RFS01-13.2109067-006	14596-10-2	Americium-241	N	0.0241	pCi/L	U	F		0.0176	
GS10	SL	8/6/2021	RFS01-13.2109067-006	7440-41-7	Beryllium	N	1	ug/L	U	F	1		
GS10	SL	8/6/2021	RFS01-13.2109067-006	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3		
GS10	SL	8/6/2021	RFS01-13.2109067-006	7440-47-3	Chromium	N	1	ug/L	U	F	1		
GS10	SL	8/6/2021	RFS01-13.2109067-006	PU-239,240	Plutonium-239, 240	N	-0.0116	pCi/L	U	F		0.0193	
GS10	SL	8/6/2021	RFS01-13.2109067-006	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3		
GS10	SL	8/6/2021	RFS01-13.2109067-006	7440-61-1	Uranium	N	7.71	ug/L		F	0.067		
GS13	SL	7/16/2021	RFS01-04.2107068-012	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.11	mg/L		F	0.019		
GS13	SL	7/29/2021	RFS01-04.2107069-012	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.032	mg/L	J B	F	0.019		U
GS59	SL	7/13/2021	RFS01-02.2107037-004	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		
GS59	SL	7/13/2021	RFS01-02.2107037-004	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		
GS59	SL	7/13/2021	RFS01-02.2107037-004	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		
GS59	SL	7/13/2021	RFS01-02.2107037-004	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		
GS59	SL	7/13/2021	RFS01-02.2107037-004	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		
GS59	SL	7/13/2021	RFS01-02.2107037-004	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		
GS59	SL	7/13/2021	RFS01-02.2107037-004	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		
GS59	SL	7/13/2021	RFS01-02.2107037-004	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		
GS59	SL	7/13/2021	RFS01-02.2107037-004	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		
GS59	SL	7/13/2021	RFS01-02.2107037-004	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		
GS59	SL	7/13/2021	RFS01-02.2107037-004	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		
GS59	SL	7/13/2021	RFS01-02.2107037-004	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		
GS59	SL	7/13/2021	RFS01-02.2107037-004	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		
GS59	SL	7/13/2021	RFS01-02.2107037-004	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		
GS59	SL	7/13/2021	RFS01-02.2107037-004	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		
GS59	SL	7/13/2021	RFS01-02.2107037-004	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		
GS59	SL	7/13/2021	RFS01-02.2107037-004	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		
GS59	SL	7/13/2021	RFS01-02.2107037-004	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		
GS59	SL	7/13/2021	RFS01-02.2107037-004	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		
GS59	SL	7/13/2021	RFS01-02.2107037-004	7439-97-6	Mercury	N	0.027	ug/L	U	F	0.027		
GS59	SL	7/13/2021	RFS01-02.2107037-004	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		
GS59	SL	7/13/2021	RFS01-02.2107037-004	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		
GS59	SL	7/13/2021	RFS01-02.2107037-004	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		
GS59	SL	7/13/2021	RFS01-02.2107037-004	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		
GS59	SL	7/13/2021	RFS01-02.2107037-004	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		
GS59	SL	7/13/2021	RFS01-02.2107037-004	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		
GS59	SL	7/13/2021	RFS01-02.2107037-004	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		
GS59	SL	7/13/2021	RFS01-02.2107037-004	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		
GS59	SL	7/13/2021	RFS01-02.2107037-004	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		
P416589	WL	7/12/2021	RFS01-10.2106037-065	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ

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LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER- TAINTY	DATA VALIDATION QUALIFIERS
P416589	WL	7/12/2021	RFS01-10.2106037-065	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	91-58-7	2-Chloronaphthalene	N	0.26	ug/L	U	F	0.26		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	83-32-9	Acenaphthene	N	0.02	ug/L	U	F	0.02		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	120-12-7	Anthracene	N	0.027	ug/L	U	F	0.027		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	50-32-8	Benzo(a)pyrene	N	0.0097	ug/L	U	F	0.0097		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	191-24-2	Benzo(g,h,i)Perylene	N	0.015	ug/L	U	F	0.015		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	108-60-1	Bis(2-chloroisopropyl) ether	N	0.28	ug/L	U	F	0.28		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	117-81-7	Bis(2-ethylhexyl) phthalate	N	2.1	ug/L	J	F	0.57		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-42-8	Boron	Y	4.8	ug/L	J	F	4.4		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	218-01-9	Chrysene	N	0.023	ug/L	U	F	0.023		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	53-70-3	Dibenz(a,h)anthracene	N	0.0091	ug/L	U	F	0.0091		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	84-66-2	Diethyl phthalate	N	0.39	ug/L	U	F	0.39		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	131-11-3	Dimethyl phthalate	N	0.21	ug/L	U	F	0.21		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	84-74-2	Di-n-butyl phthalate	N	1.2	ug/L	U	F	1.2		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	206-44-0	Fluoranthene	N	0.066	ug/L	U	F	0.066		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	86-73-7	Fluorene	N	0.036	ug/L	U	F	0.036		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	67-72-1	Hexachloroethane	N	1	ug/L	U	F	1		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	78-59-1	Isophorone	N	0.21	ug/L	U	F	0.21		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7439-97-6	Mercury	Y	0.095	ug/L	J	F	0.027		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-066	91-20-3	Naphthalene	N	0.01	ug/L	U	F	0.01		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-02-0	Nickel	Y	0.57	ug/L	J	F	0.3		FQU
P416589	WL	7/12/2021	RFS01-10.2106037-066	129-00-0	Pyrene	N	0.015	ug/L	U	F	0.015		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7782-49-2	Selenium	Y	0.37	ug/L	U	F	0.37		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-61-1	Uranium	Y	1.6	ug/L		F	0.05		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ
P416589	WL	7/12/2021	RFS01-10.2106037-065	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ

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LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER- TAINTY	DATA VALIDATION QUALIFIERS
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	95-50-1	1,2-Dichlorobenzene	N	0.29	ug/L	J	F	0.15		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	106-46-7	1,4-Dichlorobenzene	N	0.42	ug/L	J	F	0.16		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-007	7440-38-2	Arsenic	N	5.4	ug/L		F	0.33		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	71-43-2	Benzene	N	2.2	ug/L		F	0.16		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-007	7440-41-7	Beryllium	N	0.08	ug/L	U	F	0.08		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-007	7440-42-8	Boron	N	1300	ug/L		F	4.4		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	108-90-7	Chlorobenzene	N	0.69	ug/L	J	F	0.17		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	74-87-3	Chloromethane	N	0.81	ug/L	J	F	0.3		U
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-007	7440-47-3	Chromium	N	0.81	ug/L	J	F	0.5		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-007	7439-97-6	Mercury	N	0.027	ug/L	U	F	0.027		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	91-20-3	Naphthalene	N	25	ug/L		F	0.22		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	7440-02-0	Nickel	Y	5.1	ug/L		F	0.3		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-007	7782-49-2	Selenium	N	0.37	ug/L	U	F	0.37		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	1330-20-7	Total Xylenes	N	1.1	ug/L	J	F	0.19		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-007	7440-61-1	Uranium	N	0.15	ug/L		F	0.05		U
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	75-01-4	Vinyl chloride	N	0.27	ug/L	J	F	0.1		
PLFSEEPINF	TS	7/13/2021	RFS01-02.2107037-006	7440-66-6	Zinc	Y	67	ug/L		F	2		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	91-58-7	2-Chloronaphthalene	N	0.26	ug/L	U	F	0.26		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	83-32-9	Acenaphthene	N	2.1	ug/L		F	0.021		

RFLMA Data

LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER- TAINTY	DATA VALIDATION QUALIFIERS
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	120-12-7	Anthracene	N	0.54	ug/L		F	0.027		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-009	7440-38-2	Arsenic	N	6.5	ug/L		F	0.33		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	71-43-2	Benzene	N	0.58	ug/L	J	F	0.16		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	50-32-8	Benzo(a)pyrene	N	0.0098	ug/L	U	F	0.0098		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	191-24-2	Benzo(g,h,i)Perylene	N	0.015	ug/L	U	F	0.015		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-009	7440-41-7	Beryllium	N	0.23	ug/L	J	F	0.08		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	108-60-1	Bis(2-chloroisopropyl) ether	N	0.28	ug/L	U	F	0.28		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.55	ug/L	U	F	0.55		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-009	7440-42-8	Boron	N	860	ug/L		F	4.4		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	108-90-7	Chlorobenzene	N	0.18	ug/L	J	F	0.17		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-009	7440-47-3	Chromium	N	0.5	ug/L	U	F	0.5		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	218-01-9	Chrysene	N	0.023	ug/L	U	F	0.023		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	7440-50-8	Copper	Y	1.9	ug/L	J	F	0.56		U
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	53-70-3	Dibenz(a,h)anthracene	N	0.0092	ug/L	U	F	0.0092		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	84-66-2	Diethyl phthalate	N	0.37	ug/L	U	F	0.37		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	131-11-3	Dimethyl phthalate	N	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	206-44-0	Fluoranthene	N	0.62	ug/L		F	0.066		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	86-73-7	Fluorene	N	1.8	ug/L		F	0.036		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	67-72-1	Hexachloroethane	N	0.97	ug/L	U	F	0.97		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	78-59-1	Isophorone	N	0.21	ug/L	U	F	0.21		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-009	7439-97-6	Mercury	N	0.027	ug/L	U	F	0.027		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	91-20-3	Naphthalene	N	4	ug/L		F	0.01		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	7440-02-0	Nickel	Y	4.6	ug/L		F	0.3		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-010	129-00-0	Pyrene	N	0.44	ug/L		F	0.015		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-009	7782-49-2	Selenium	N	0.37	ug/L	U	F	0.37		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	7440-22-4	Silver	Y	0.062	ug/L	J	F	0.033		U
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-009	7440-61-1	Uranium	N	0.54	ug/L		F	0.05		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		
PLFSYSEFF	TS	7/13/2021	RFS01-02.2107037-008	7440-66-6	Zinc	Y	18	ug/L		F	2		
SPIN	TS	7/16/2021	RFS01-04.2107068-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	610	mg/L		F	1.9		
SPIN	TS	7/16/2021	RFS01-04.2107068-013	7440-61-1	Uranium	N	75	ug/L		F	0.05		
SPIN	TS	7/29/2021	RFS01-04.2107069-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	620	mg/L	B	F	1.9		
SPIN	TS	7/29/2021	RFS01-04.2107069-013	7440-61-1	Uranium	N	72	ug/L		F	0.05		
SPIN	TS	8/18/2021	RFS01-04.2108070-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	720	mg/L		F	1.9		
SPIN	TS	8/18/2021	RFS01-04.2108070-013	7440-61-1	Uranium	N	77	ug/L	B	F	0.05		J
SPIN	TS	8/30/2021	RFS01-04.2108071-002	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	880	mg/L		D	1.9		

RFLMA Data

LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS
SPIN	TS	8/30/2021	RFS01-04.2108071-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	750	mg/L		F	1.9		
SPIN	TS	8/30/2021	RFS01-04.2108071-002	7440-61-1	Uranium	N	74	ug/L		D	0.05		
SPIN	TS	8/30/2021	RFS01-04.2108071-013	7440-61-1	Uranium	N	73	ug/L		F	0.05		
SPIN	TS	9/15/2021	RFS01-04.2109072-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	620	mg/L		F	1.9		
SPIN	TS	9/15/2021	RFS01-04.2109072-013	7440-61-1	Uranium	N	74	ug/L		F	0.05		J
SPIN	TS	9/30/2021	RFS01-04.2109073-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	500	mg/L	B	F	3.8		
SPIN	TS	9/30/2021	RFS01-04.2109073-013	7440-61-1	Uranium	N	66	ug/L		F	0.05		J
SPOUT	TS	7/16/2021	RFS01-04.2107068-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.17	mg/L		F	0.019		
SPOUT	TS	7/16/2021	RFS01-04.2107068-014	7440-61-1	Uranium	N	48	ug/L		F	0.05		
SPOUT	TS	7/29/2021	RFS01-04.2107069-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.17	mg/L	B	F	0.019		
SPOUT	TS	7/29/2021	RFS01-04.2107069-014	7440-61-1	Uranium	N	50	ug/L		F	0.05		
SPOUT	TS	8/18/2021	RFS01-04.2108070-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.1	mg/L		F	0.019		
SPOUT	TS	8/18/2021	RFS01-04.2108070-014	7440-61-1	Uranium	N	45	ug/L	B	F	0.05		
SPOUT	TS	8/30/2021	RFS01-04.2108071-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.16	mg/L		F	0.019		
SPOUT	TS	8/30/2021	RFS01-04.2108071-014	7440-61-1	Uranium	N	47	ug/L		F	0.05		
SPOUT	TS	9/15/2021	RFS01-04.2109072-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019		
SPOUT	TS	9/15/2021	RFS01-04.2109072-014	7440-61-1	Uranium	N	53	ug/L		F	0.05		
SPOUT	TS	9/30/2021	RFS01-04.2109073-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.055	mg/L	B	F	0.019		U
SPOUT	TS	9/30/2021	RFS01-04.2109073-014	7440-61-1	Uranium	N	55	ug/L		F	0.05		
WALPOC	SL	7/2/2021	RFS01-13.2107065-013	14596-10-2	Americium-241	N	0.00516	pCi/L	U	F		0.00947	
WALPOC	SL	7/2/2021	RFS01-13.2107065-013	PU-239,240	Plutonium-239, 240	N	0.00119	pCi/L	U	F		0.0112	
WALPOC	SL	7/2/2021	RFS01-13.2107065-013	7440-61-1	Uranium	N	8.37	ug/L		F	0.067		
WALPOC	SL	7/2/2021	RFS01-13.2107064-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.0891	mg/L		F	0.017		
WOMPOC	SL	7/2/2021	RFS01-13.2107065-015	14596-10-2	Americium-241	N	0.0103	pCi/L	U	F		0.00879	
WOMPOC	SL	7/2/2021	RFS01-13.2107065-015	PU-239,240	Plutonium-239, 240	N	0.00114	pCi/L	U	F		0.00922	
WOMPOC	SL	7/2/2021	RFS01-13.2107065-015	7440-61-1	Uranium	N	1.48	ug/L		F	0.067		

EXPLANATION

FILTRATION STATUS

N = Sample was not filtered.
Y = Sample was filtered.

UNITS

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

SAMPLE_TYPE

F = Field Sample
D = Duplicate

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 compund (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.

RFLMA Data

LOCATION_CODE	LOCATION_ TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER- TAINTY	DATA VALIDATION QUALIFIERS

DATA_VALIDATION_QUALIFIERS

<NULL>	No qualifiers
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

LOCATION_TYPE

SL	SURFACE LOCATION
TS	TREATMENT SYSTEM
WL	WELL

COLLECTION_METHOD

G	Grab
C	Composite

Appendix

- Acronym List

Rocky Flats Acronym List
Prepared for the Rocky Flats Stewardship Council
Rev. 02/20

Acronym or Term	Means	Definition
Alpha radiation		A type of radiation that is not very penetrating and can be blocked by materials such as human skin or paper or one inch of air. Alpha radiation presents its greatest risk when it is inhaled or ingested. Plutonium, the radioactive material of greatest concern at Rocky Flats, produces this type of radiation.
Am	americium	A man-made radioactive element that is a byproduct of plutonium (Pu) production. Am emits gamma radiation, which can penetrate many types of protective shielding. During the production era at Rocky Flats, Am was chemically separated from Pu to reduce personnel exposures.
AME	Actinide Migration Evaluation	An exhaustive, years-long study by independent researchers who studied how actinides such as plutonium, americium, and uranium move through the soil and water at Rocky Flats.
AMP	Adaptive Management Plan	Additional water quality sampling and analysis that DOE is conducting, beyond the normal environmental assessments, to inform decisions regarding future breaches of remaining dams.
AOC well	Area of Concern well	A particular type of groundwater well.
B	boron	An inorganic compound that has been found in some surface water and groundwater samples at Rocky Flats.
Be	beryllium	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.
Beta radiation		A type of radiation that is more penetrating than alpha (but less penetrating than gamma). Beta particles can be stopped after traveling through 10 feet of air or a thin layer of glass or metal. Some forms of uranium emit beta radiation.
BMP	Best Management Practices	A term used to describe actions taken by DOE that are not required by regulation but warrant action.
BZ	Buffer Zone	The portion of the Rocky Flats site that was added during production to provide a "buffer" between the neighboring communities and the industrial portion of Rocky Flats. The buffer zone covered approximately 6,100 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	The state agency that regulates Rocky Flats.

Acronym or Term	Means	Definition
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	Federal legislation that governs the Rocky Flats 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 Rocky Flats.
COU	Central Operable Unit	A CERCLA term used to describe the DOE-retained lands (about 1,300 acres) at Rocky Flats. The COU overlays the former Industrial Area (where manufacturing activities took place) and contains all engineered elements of the remedy (two landfills and four groundwater treatment systems) and areas of residual subsurface contamination.
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-Legacy Management (LM) website and the public is notified via email.
Cr	chromium	Potentially toxic metal used at Rocky Flats.
CRA	Comprehensive Risk Assessment	A series of analyses that assess human health risks and risks to the environment (flora and fauna).
D&D	decontamination and decommissioning	The process of cleaning up and tearing down buildings and other structures.
DG	Discharge Gallery	The location where the treated effluent of the Solar Ponds Plume Treatment System (defined below) 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	A study required by NEPA (defined 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	An evaluation that is undertaken by a government agency when it is determined, via the EA, that a proposed action by the agency may have significant impacts to the environment.
EPA	U.S. Environmental Protection Agency	The federal agency that regulates Rocky Flats activities.
EEOICPA	Energy Employees Occupational Illness Compensation Program Act	An act passed by Congress in 2000 to compensate sick nuclear weapons workers and certain survivors.

Acronym or Term	Means	Definition
ETPTS	East Trenches Plume Treatment System	The treatment system near the location of the East Waste Disposal Trenches. This system treats groundwater emanating from the trenches that is contaminated with organic solvents, as well as groundwater routed from the Mound Plume Site Collection System. 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	The federal law that regulates federal advisory boards. The law requires balanced membership and open meetings with published Federal Register meeting dates.
Gamma Radiation		The most penetrating type of radiation at Rocky Flats. Thick, dense shielding is necessary to protect against gamma rays. Americium (Am) is a strong gamma emitter.
GAO	Government Accountability Office	Congressional investigative office that reports to Congress.
g	gram	A metric unit of mass.
gpm	gallons per minute	A volumetric measure of water flow.
GWIS	Groundwater Intercept System	A below-ground system that directs contaminated groundwater toward the Solar Ponds Plume and East Trenches Plume Treatment Systems.
IA	Industrial Area	The central core of Rocky Flats where all manufacturing activities took place. The IA covered 385 of Rocky Flats's 6,500 acres.
IC	Institutional Control	Administrative and legal controls employed to protect the integrity of the remedies in place and minimize the potential for human exposure to residual contamination.
IGA	intergovernmental agreement	A cooperative agreement between local governments that establishes 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 formerly over two hundred IHSSs 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 Plume Treatment System or the East Trenches Plume Treatment System.
L	liter	Metric measure of volume (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	Hydrogeological term for deep unweathered bedrock that is hydraulically isolated from the upper hydrostratigraphic unit (see UHSU). Data show that site COCs have not contaminated the LHSU.

Acronym or Term	Means	Definition
LM	Legacy Management	DOE office responsible for overseeing activities at closed sites.
LMPIP	Legacy Management Public Involvement Plan	A plan that 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).
O&M/OM&M	Operations, monitoring, and maintenance	Term that describes ongoing activities at Rocky Flats.
MOU	Memorandum of Understanding	The formal agreement between EPA and CDPHE specifying that CDPHE is the lead post-closure regulatory agency with EPA providing assistance when needed.
MSPCS	Mound Site Plume Collection System	The system that collects groundwater and routes it to the ETPTS for treatment.
MSPTS	Mound Site Plume Treatment System	The remediation system formerly in place (reconfigured in 2016) to treat groundwater contaminated with organic solvents emanating from the Mound Site (a portion of Rocky Flats where waste barrels were buried).
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 originating from Solar Ponds wastes. Nitrates have been detected in the North Walnut Creek drainage. Nitrates are very soluble in water and move readily through the aquatic environment.
Np	neptunium	A man-made radioactive isotope that is a by-product of nuclear reactors and plutonium production.
NPL	National Priorities List	A list of Superfund sites. The refuge lands were de-listed from the NPL, while the DOE-retained lands are still on the NPL because of residual groundwater contamination and associated remediation activities.
NWCS	North Walnut Creek Slump	Slumping observed on the hillside east of the Solar Ponds Plume Treatment System.
OLF	Original Landfill	Hillside dumping area of about 20 acres that was used from 1951 to 1968. The OLF underwent remediation with the addition of a soil cap and groundwater monitoring locations.
OU	Operable Unit	A distinct area within a cleanup site. These areas may address geographic areas, specific problems, or medium (e.g., groundwater, soil) where a specific action is required.
PCE	perchloroethylene (a.k.a. tetrachloroethylene)	A volatile organic solvent used in past operations at Rocky Flats.
pCi/g	picocuries per gram	A unit of radioactivity in soil.
pCi/L	picocuries per liter	A unit of radioactivity in water. CDPHE's regulatory limit for Pu and Am in surface water at Rocky Flats is 0.15 pCi/L. This standard is 100 times stricter than the EPA's drinking water standard.

Acronym or Term	Means	Definition
PLF	Present Landfill	Landfill constructed in 1968 to replace the OLF. During site remediation, 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 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 monitoring location at Rocky Flats where contaminant concentrations must 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)	A surface water monitoring location at Rocky Flats where water quality is monitored. There are no financial penalties associated with water quality exceedances at these locations, but DOE 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 4,800-acre area surrounding the Central Operable Unit.
Pu	plutonium	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. There are different forms of plutonium, called isotopes. Each isotope is known by a different number, such as plutonium 239 (Pu-239) and plutonium 241 (Pu-241). Pu-239 is the primary radioactive COC at Rocky Flats.
RCRA	Resource Conservation and Recovery Act	Federal law regulating hazardous waste. In Colorado, EPA delegates to CDPHE the authority to regulate hazardous wastes.
RFCA	Rocky Flats Cleanup Agreement	The regulatory agreement that governed cleanup activities. DOE, EPA, and CDPHE were signatories.
RFCAB	Rocky Flats Citizen Advisory Board	The group formed as part of DOE's site-specific advisory board network. The RFCAB provided community feedback to DOE on a wide variety of Rocky Flats issues from 1993 through regulatory closure in 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 Rocky Flats during cleanup years.
RFLMA	Rocky Flats Legacy Management Agreement	The post-cleanup regulatory agreement between DOE, CDPHE, and EPA that governs site activities. The CDPHE has the lead regulatory role, with support from EPA as required.
RFNWR	Rocky Flats National Wildlife Refuge	The 4,000 acres of Rocky Flats where unrestricted use is allowed. This land is now a wildlife refuge.

Acronym or Term	Means	Definition
RFSOG	Rocky Flats Site Operations Guide	The nuts-and-bolt guide for post-closure site activities performed by DOE and its contractors.
RSAL	Radionuclide Soil Action Level	Concentration of radionuclide in soil above which remedial action should be considered so that people are not exposure to radiation doses above permitted levels.
SEP	Solar Evaporation Ponds	An area of Rocky Flats used in the 1950s to hold excess wastewater generated during manufacturing operations. Wastewater that could not be treated in the onsite treatment plant was sent to open-air holding ponds where solar energy was utilized to evaporate and concentrate the waste. The original SEPs were unlined, and substantial quantities of uranium and nitrates made their way into groundwater. As a result, the Solar Ponds Plume Treatment System was constructed to treat contaminated groundwater before it emerged as surface water in North Walnut Creek.
SID	South Interceptor Ditch	A water feature designed to intercept runoff from the southern portion of the COU. The SID flows from west to east into Pond C-2. Woman Creek water does not enter Pond C-2, but is diverted around Pond C-2 through the Woman Creek Diversion Canal.
SPPTS	Solar Ponds Plume Treatment System	Engineered system designed 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. Effluent from the SPPTS flows into North Walnut Creek.
SVOCs	semi-volatile organic compounds	Organic compounds that are not as volatile as solvent-related VOCs. SVOCs are found in many environmental media at Rocky Flats. They are found in materials like oil, coal, asphalt, and tar.
TCE	trichloroethylene	A volatile organic compound used as a solvent in past site operations. TCE is also a degradation product of PCE.
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 and was used in nuclear weapons. The second isotope was U-238, also known as depleted uranium. U-238 has low levels of radioactivity.
ug/L or µg/L	micrograms per liter	A unit of contaminant concentration in water.
UHSU	upper hydrostratigraphic unit	A hydrogeological 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 Rocky Flats is contaminated with site-related COCs, while groundwater in other UHSU areas is not impacted. All groundwater in the UHSU emerges to surface water before it leaves Rocky Flats.

Acronym or Term	Means	Definition
USFWS	United States Fish & Wildlife Service	The 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.
UUUE	unlimited use and unrestricted exposure	A regulatory term used to describe residual risk remaining after a site has been remediated. In 2007, the Peripheral Operable Unit (POU) was found to be suitable for unlimited use and unrestricted exposure (based on risk calculations). EPA removed the POU (now largely the Rocky Flats National Wildlife Refuge) from the EPA's National Priorities List of CERCLA or "Superfund" sites.
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 (TCE), perchloroethylene (PCE), and methylene chloride.
WALPOC	Walnut Creek Point of Compliance	The surface water Point of Compliance on Walnut Creek, at the COU boundary.
WCRA (or “the Authority”)	Woman Creek Reservoir Authority	The group composed the cities of Westminster, Northglenn, and Thornton. These cities use Standley Lake as part of their drinking water supply network. Surface water from Rocky Flats formerly flowed through Woman Creek to Standley Lake, but the Woman Creek Reservoir was constructed to sever that connection. The Authority has an operations agreement with DOE to manage the Woman Creek Reservoir.
WOMPOC	Woman Creek Point of Compliance	The surface water Point of Compliance on Woman Creek, at the COU boundary.
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.
WRW	Wildlife Refuge Worker	User scenario on which exposure risks are calculated.
ZVI	zero valent iron	A type of fine iron particles formerly used to treat VOCs in the ETPTS and MSPTS.