

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, October 31, 2022, 8:30 – 11:15 AM

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

- 8:30 AM Convene/Introductions/Agenda Review
- 8:40 AM Public Comment: Comments are limited to the Consent Agenda and non-agenda items. Comments are limited to three minutes.
- 8:50 AM Business Items (briefing memo attached)
1. Consent Agenda: Approve meeting minutes and checks
2. Executive Director's Report
- 9:00 AM EXECUTIVE SESSION
Discussion of Stewardship Council personnel contracts for 2023 (authorized pursuant to Section 24-6-402(4)(e) & (b), C.R.S., to determine positions relative to matters that may be subject to negotiation, and conferencing with the attorney on such matters, and after announcement at the public meeting of the specific topic for discussion and the statutory citation authorizing the executive session, and a 2/3 vote of the quorum present for the Board.)
- 9:15 AM Board Approval of 2023 Work Plan (briefing memo attached)
○ The Board reviewed the draft 2023 Work Plan at the September meeting. No changes were offered.
- Action Item: Approve 2023 Work Plan**
- 9:20 AM Board Approval of 2023 Budget (briefing memo attached)
○ The Board reviewed the draft budget at the September meeting.
○ 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.
- Action Item: Hold fiscal year 2023 budget hearing and approve resolution adopting the budget**

- 9:30 AM New Member Selection (briefing memo attached)
- Four entities applied for membership to the Rocky Flats Stewardship Council.
 - The governments will vote to approve two for Board membership.

Action Item: Interview the applicants and make the appointments

- 10:00 AM Host DOE Quarterly Meeting (briefing memo attached)
- DOE will brief on site activities for the second quarter of 2022 (April – June).
 - 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.).

10:15 AM Board Roundtable – Big Picture/Additional Questions/Issue Identification

- 10:20 AM Roundtable Discussion of DOE’s Quarterly Report (see 10:00 AM briefing topic memo for details)
- This portion of the meeting will allow for an in-depth discussion of DOE’s Quarterly Report
 - Stewardship Council staff will facilitate the discussion

Adjourn

Upcoming Meetings:

February 6, 2023

April 3, 2023

Business Items

- Cover memo
- Stewardship Council minutes and checks

ROCKY FLATS STEWARDSHIP COUNCIL

Monday, September 19, 2022

8:30 – 10:25 AM

Virtual Meeting via WebEx

Board members in attendance: Randy Moorman (Director, Arvada), Jacob Moyer (Alternate, Arvada), Summer Laws (Alternate, Boulder County), Marni Ratzel (Second Alternate, City of Boulder), Don Davis (incoming Second Alternate Director, City and County of Broomfield), Bill Fisher (Director, Golden), Andy Kerr (Director, Jefferson County), Pat O’Connell (Alternate, Jefferson County), Ashley Witkovich (Director, Northglenn), Mark Lacin (Director, Superior), Jan Kulmann (Director, Thornton), Caleb Owen (Alternate, Thornton), Jeannette Hillery (Director, League of Women Voters), Roman Kohler (Director, Rocky Flats Homesteaders), Murph Widdowfield (Director, Rocky Flats Cold War Museum), Kim Griffiths (Director/Citizen), Ken Freiberg (RFCWM), Rich Seymour (Director, Westminster)

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

Attendees: Andy Keim (DOE-LM), Padraic Benson (DOE-LM), Shawn Eichelberger (DOE-LM), Cliff Carpenter (DOE-LM), Ramona Phillips (RSI Entech), M. Harry Bolton (RSI Entech), Dana Santi (RSI Entech), John Boylan (RSI Entech), Chris Stewart (RSI Entech), George Squibb (RSI Entech), Jody Nelson (RSI Entech), Karin McShea (RSI Entech), Ryan Wisniewski (RSI Entech), David Lucas (USFWS), Megan Klosterman (USFWS), Lindsey Murl (CDPHE), Cathy Shugarts (Westminster), Laura Hubbard (Broomfield), Shirley Garcia (Westminster), Travis H. Culley

Convene/Agenda Review: Jan Kulmann convened the meeting at 8:35 am.

Public Comment: There were no public comments.

Consent Agenda: The consent agenda included approval of the minutes from the June 6, 2022, meeting and checks written since that meeting. Roman Kohler moved to approve consent agenda. The motion was seconded by Jeanette Hillery. The motion to accept the minutes and checks passed 13-0.

Executive Director’s Report: David spoke to two items.

LSO Applications: Each year the Stewardship Council appoints two members to the board of directors. That process opened September 1; applications are due September 31. The two seats that are up are Rocky Flats Cold War Museum and Kim Griffiths.

CERLCA Five Year Review: Under CERCLA, the federal superfund law, every five years DOE conducts a review to ensure that the remedy remains protective. CDPHE is involved, with the EPA having final authority. EPA’s determination is called a “protectiveness determination.” As David explained, that essentially means that the remedy remains protective of human health and the environment. This year, EPA did not issue a protectiveness determination, citing the presence of PFOS and PFOA, two PFAS chemicals that are ubiquitous and not limited to cleanup activities at Rocky Flats. David noted that the science and politics around these two chemicals are evolving, with the EPA considering a national rulemaking that would severely limit the regulatory limits of both chemicals. In Colorado, in 2020, out of the 397 water systems tested that year, 120 exceed the new health advisory level. At Rocky Flats, DOE and CDPHE agreed to test for PFAS over the next two years and to implement a plan by summer 2026 to

access the corresponding risk. At that point, the EPA will reevaluate its protectiveness determination. All of the testing will take place within the Central Operable Unit (COU), the lands DOE manages.

Randy asked about the EPA not signing off on the Five Year Review and if the Board would engage on the PFAS issue. David replied that, if you look at Rocky Flats from a drainage perspective, we are in a holding pattern until downstream communities start discussions (mid-November) on where they stand. The downstream communities are the ones potentially impacted. David noted that the downstream communities' water supplies are protected. This model he's suggesting—of letting the downstream communities inform water-related discussions—is one the Board has used several times before.

DOE Overview of FY22 Q1 Report

John Boylan gave an overview of the FY22 Q1 report. Highlights include:

Surface water

- All Rocky Flats Legacy Management Agreement (RFLMA) Point of Compliance and Point of Evaluation analyte concentrations remained below reportable condition levels throughout the first quarter.
- Quarterly performance monitoring for the Present Landfill (PLF) showed arsenic in excess of the RFLMA standard, triggering monthly sampling. The subsequent monthly sample was below the standard, and sampling frequency reverted to quarterly.
- Performance monitoring for the Original Landfill (OLF) showed acceptable water quality for the first quarter of 2022.

Groundwater and groundwater treatment systems

- Sampled RCRA wells at OLF, PLF (sampled quarterly)
 - Results consistent with previous data, will be evaluated in 2022 annual report.
- Treatment system work at East Trenches Plume Treatment System (ETPTS) and Solar Ponds Plume Treatment System (SPPTS)
 - ETPTS discharge line segment replaced to address freezing (January); discharge gallery replaced because of clogs (February).
 - ETPTS air stripper inspected by manufacturer; operating normally in good condition.
 - SPPTS effluent plumbing added to support uranium treatment bench testing.

Operations and Maintenance

- RFLMA inspections completed, only routine maintenance
- OLF: Monthly inspections, no slumping observed
- PLF: Quarterly inspections, no issues noted
- Landfill Settlement Monument surveys: Vertical settling within design limits
- Site erosion controls monitored and maintained
- NWCS (North Walnut Creek Slump) survey: Continued monthly monitoring of survey points

Ecology

- Minimal field tasks conducted in winter – preparation of annual report and for field data collection
- Wildlife monitoring (looking for prairie dogs, none in COU)
- Vegetation management (e.g., looking for Russian olive trees, taking them out)

For additional details on any items noted here, please view the Rocky Flats FY22 Q1 report at https://lmpublicsearch.lm.doe.gov/lmsites/41254_rfs_1q22.pdf

After the briefing, Randy Moorman asked about community air monitoring requests. David replied it was in process. Andy Keim said that DOE is looking to host a meeting in November with interested parties to have further discussions on the topic. Andy said a letter would come out in the next week or so regarding a meeting; he thinks the meeting will be the week of November 14th.

Briefing on the DOE-USFWS Multi-Purpose Building

Megan Klosterman (Deputy Manager, Rocky Flats National Wildlife Refuge) presented on the proposed multi-purpose building at the Refuge. First, she talked about the Refuge Act of 2001, which provided direction for management of Refuge lands. Priority public uses included interpretation and public recreation. In 2004, USFWS passed the Comprehensive Conservation Plan (CCP), which includes a “contact station” for interpretive displays and office space.

DOE and USFWS are planning to enter into an agreement with the U.S. Army Corps of Engineers (USACE) to design the multi-purpose facility at the Refuge. Refuge personnel will staff the facility, and USACE will design the facility. In 2017, USRFWS hosted a public session to provide design ideas. The Rocky Flats website has the CCP and 25% drawings. The 25% drawings will be the starting point for the design. Access to the facility will be Highway 128, where the current parking lot is. The exact location of the facility is being discussed.

A planned schedule is below:

- Late 2022, update conceptual facility design
- 2023, update NEPA documents, complete detailed building and exhibits design
- 2024, begin construction of the building and outdoor exhibits
- 2025, construction complete

Jeannette asked about the process for obtaining input from Tribal governments regarding the interpretive exhibits. Megan said she would reach out to them for input. David asked about NEPA process, Megan said public comments would likely be 30 days. ich asked about reaching out the Church family about homesteading. Megan said the USFWS is in close contact with the Church family. David asked whether USFWS was working with Open Space departments from the local governments. Megan said they work closely with Open Space departments from the communities.

Megan mentioned that the Refuge has done soil sampling throughout the years to ensure there are no residual contaminants. There is no issue regarding digging below certain depths on the Refuge (only an issue in the COU).

2023 Work Plan – Initial Review

The Board reviewed the draft 2023 work plan. Formal approval of the work plan will take place at the October 31st meeting.

David highlighted tracking PFAS. Randy asked if DOE was planning on responding to Jon Lipsky’s letter to DOE on PFAS and other issues, requesting that management responsibility for Rocky Flats be transferred from DOE to USACE. David said he was not sure of DOE’s plans to respond, but that the letter was sent to a mid-level person at Office of Environmental Management (EM). David noted EM has no say over Rocky Flats, as Legacy Management (LM) manages the site. Additionally, making such a change would

require Congressional action. David concluded by noting that such a change was highly unlikely as LM was established to among other tasks manage former EM sites.

Randy asked what will the Stewardship Council's Work Plan be around PFAS. In follow up to the prior discussion, David said we would track and update the Board as necessary.

2023 Budget – Initial Review

The Board reviewed the draft 2023 budget. The budget hearing and adoption of the 2023 budget will take place at the October 31st meeting.

David stated that we overbudget so that we do not have to do supplemental budgeting, which is time-consuming, in the event of something unexpected.

Regarding the "Revenue" column, Pat asked if Local Government contributions should be zeroed out. David said no. The \$10,000 he noted is not new funding but is carryover. The only new revenue is DOE grant funding. Rich would like to see it called "Carry Over".

Randy asked about what the Executive Director's (ED's) duties, and if there is a detailed work plan so he can understand what the ED does. Barb read aloud from David's contract the duties and responsibilities. Randy asked if the Board could get monthly updates on what ED did that month. David said they used to do that, but updates were not being read. David said updates were discussed at Executive Committee meetings. Also, the Stewardship Council opted to have fixed-price contracts for staff so that staff does not have to account for specific work items.

Board Roundtable: No comments.

Big Picture/Additional Questions/Issue Identification: David went through the Big Picture. The next meetings are scheduled for October 31, 2022, and February 6, 2023.

October 31, 2022

Business Items

- Adopt 2023 work plan
- Adopt 2023 budget
- New member interviews & appointments

Briefing Items

- DOE Quarterly Update

February 6, 2023

Business Items

- Elect 2023 Officers
- Adopt resolution re: 2023 meeting date

Briefing Items

- DOE Quarterly Update

Issues to watch:

- Uranium and plutonium reportable conditions
- North Walnut Creek slump

- PFAS
- Multi-purpose building

Randy Moorman asked if the Big Picture could include air quality monitoring to issues to watch. David added that item.

Official Board meeting adjourned at 9:50 am.

Roundtable Discussion of DOE's FY22 Q1 Report

George Squibb gave an overview of Q1 surface water monitoring results, and John Boylan gave an overview of Q1 groundwater monitoring results. Harry Bolton discussed signage, building subsidence, PLF and OLF maintenance. Karin McShea discussed ecology.

David asked how the site held up with the dry winter and late snow. George said they did not see much difference from the snow. They saw bigger impacts from dryness in spring/summer.

Pat asked about presentation of data and recommended something like a Story Map. George said RFLMA requires quarterly reports, but they are open to suggestions. Pat said he wondered if there was something that could tell the stories differently. George replied that RFLMA sets up parameters for monitoring and quarterly reporting. George talked about GEMS for availability of monitoring data.

Laura Hubbard asked about uranium on woman creek (WOMPOC) – one result was rejected. George said the result was 19.1 ug/L uranium at WOMPOC – above the standard, which was very unusual. George looked into it and determined the sample likely was errant. They asked the lab to test duplicate sample. The second sample came in just over 3 ug/L, which was expected. If the next result comes back high, they will reevaluate.

Travis Culley commented that Marshall Lake should be tested for radionuclides. He posited that the Marshall Fire was the result of a nuclear reaction from off-site contamination and/or from plutonium disposed of in Marshall Lake. Multiple board members and DOE told him his theory was without any basis in fact or science. David asked that he stick to the topic, the FY22 Q1 monitoring results.

Melissa Weakley asked about monitoring frequency at the OLF. Harry Bolton replied that monitoring of the OLF was formerly done quarterly, then the frequency increased to monthly during the OLF stabilization process. DOE will discuss with the RFLMA parties when to reduce frequency back to quarterly.

Laura Hubbard asked about the arsenic, focusing her question on the source. John Boylan thought it could possibly be something like treated wood, which buried was in the landfill, or maybe old electronics components. The Front Range is also slightly high in naturally occurring arsenic.

David asked if there was anything else the CDPHE was looking for in future monitoring, besides PFAS. Lindsey mentioned boron and the SW027 hillside, possibly other PFAS types of chemicals.

Travis Cully discussed regional sampling, suggesting no one knows of contaminant levels off-site. Lindsay Murl said off-site areas were studied and historical data exists. Murph Widdowfield talked about past air monitoring data and surface soil data, which was clear of plutonium.

The Board meeting was adjourned at 10:35 am.

Rocky Flats Stewardship Council
Check Detail 2021
September 5 through October 15, 2022

Type	Num	Date	Name	Account	Paid Amount	Original Amount
Check		09/23/2022		CASH-Wells Fargo-Operating		-3.50
				Admin Services-Misc Services	-3.50	3.50
TOTAL					-3.50	3.50
Check	2162	09/08/2022	Century Link	CASH-Wells Fargo-Operating		-30.20
				Telecommunications	-30.20	30.20
TOTAL					-30.20	30.20
Bill Pmt -Check	2163	09/08/2022	Crescent Strategies, LLC	CASH-Wells Fargo-Operating		-8,761.50
Bill	8/31/22 ...	08/31/2022		Personnel - Contract	-8,098.75	8,098.75
				Personnel - Contract	-426.25	426.25
				TRAVEL-Local	-19.89	19.89
				Postage	-17.99	17.99
				Telecommunications	-96.62	96.62
				Admin Services-Misc Services	-102.00	102.00
TOTAL					-8,761.50	8,761.50
Bill Pmt -Check	2164	09/08/2022	Jennifer A. Bohn	CASH-Wells Fargo-Operating		-240.00
Bill	22-47	08/31/2022		Accounting Fees	-240.00	240.00
TOTAL					-240.00	240.00
Check	2165	10/04/2022	Century Link	CASH-Wells Fargo-Operating		-31.11
				Telecommunications	-31.11	31.11
TOTAL					-31.11	31.11
Bill Pmt -Check	2166	10/04/2022	Crescent Strategies, LLC	CASH-Wells Fargo-Operating		-10,317.44
Bill	9/30/22 ...	09/30/2022		Personnel - Contract	-8,525.00	8,525.00
				TRAVEL-Local	-115.63	115.63
				Postage	-17.99	17.99
				Telecommunications	-96.62	96.62
				TRAVEL-Out of State	-1,562.20	1,562.20
TOTAL					-10,317.44	10,317.44
Bill Pmt -Check	2167	10/04/2022	Erin Ridolfo	CASH-Wells Fargo-Operating		-200.00
Bill	5/1/22 l...	06/01/2022		Personnel - Contract	-200.00	200.00
TOTAL					-200.00	200.00
Bill Pmt -Check	2168	10/04/2022	Jennifer A. Bohn	CASH-Wells Fargo-Operating		-460.00
Bill	22-59	09/30/2022		Accounting Fees	-460.00	460.00
TOTAL					-460.00	460.00
Bill Pmt -Check	2169	10/04/2022	Seter & Vander Wall, P.C.	CASH-Wells Fargo-Operating		-32.00
Bill	84476	08/31/2022		Attorney Fees	-32.00	32.00
TOTAL					-32.00	32.00

2023 Work Plan

- Cover memo
- Draft work plan

2023 Budget

- Cover memo
- Draft budget
- Budget Resolution and Notice

LSO Applications

- Cover Memo
- Applicants' Responses
 - Rocky Flats Cold War Museum (current member)
 - Kim Griffiths (current member)
 - Travis Culley
 - Herb Fenster

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Kim Griffiths

MEMORANDUM

TO: Board
FROM: David Abelson
SUBJECT: Draft 2023 Work Plan for Approval
DATE: October 15, 2022

The Board will approve the 2023 work plan. The Board reviewed the draft plan at the September 19th meeting and did not offer any changes.

Action Item: Approve 2023 Work Plan

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2023 Work Plan

Draft #2, October 31, 2022

Mission:

The mission of the Rocky Flats Stewardship Council (Stewardship Council) is to provide continuing local engagement on activities occurring at the Rocky Flats site (“Rocky Flats” or “site”) regarding long-term stewardship of residual contamination and refuge management; to provide a forum to track issues related to former site employees, including but not limited to long-term health benefits and pension programs; to provide an ongoing mechanism to help maintain public knowledge of Rocky Flats and the ongoing needs and responsibilities regarding contaminant management and refuge management; and to provide an ongoing forum to engage on all other issues pertinent to Rocky Flats, as determined by the Stewardship Council Board of Directors (Board).

Background:

The Stewardship Council occupies two roles: (1) serving as the Local Stakeholder Organization (LSO) for Rocky Flats, and (2) engaging the U.S. Fish & Wildlife Service (USFWS) on the management of the Rocky Flats National Wildlife Refuge (Refuge). To help ensure the Board and public understand when the Stewardship Council acts in its capacity as the Rocky Flats LSO and when it engages on issues beyond its scope as the LSO, the plan includes headers indicating “LSO” and “Non-LSO” activities.

Local Stakeholder Organization (LSO)

The Department of Energy (DOE) Office of Legacy Management (LM) approved the LSO Plan for Rocky Flats on December 21, 2005. That Plan identifies how the main responsibilities Congress identified in the legislation authorizing the creation of LSO (Section 3120 of the Fiscal Year 2005 Defense Authorization bill) are to be carried out at Rocky Flats. These responsibilities are summarized as follows:

- Solicit and encourage public participation in appropriate activities relating to the closure and post-closure operations of the site.
- Disseminate information on the closure and post-closure operations of the site to the State, local and Tribal governments in the vicinity of the site, as well as persons and entities having a stake in the closure or post-closure operations of the site.
- Transmit to appropriate officers and employees of DOE questions and concerns of governments, persons, and entities referred to in the preceding bullet.

In fulfilling these responsibilities, the Stewardship Council has been tasked with helping LM meet its public involvement obligations identified in the Legacy Management Public Involvement Plan (LMPiP) for Rocky Flats.

Rocky Flats National Wildlife Refuge (non-LSO activity)

“The Rocky Flats National Wildlife Refuge Act of 2001” established that Rocky Flats shall become a national wildlife refuge following U.S. Environmental Protection Agency (EPA) certification that the site has been cleaned to the agreed-upon regulatory standards. In July 2007, DOE conveyed jurisdictional responsibility of nearly 4,000 acres to the Department of the Interior for the Rocky Flats National Wildlife Refuge. Additional lands were conveyed in 2014.

USFWS opened the Refuge for guided tours in 2015 and for public recreation in 2018. Additional trails will open in the Refuge in the coming years.

Work Plan Elements:

The Work Plan is divided into the following five sections:

1. DOE Management Responsibilities (LSO activity)
2. Former Rocky Flats Workforce (LSO activity)
3. Outreach (LSO activity with two exceptions noted)
4. Rocky Flats National Wildlife Refuge (non-LSO activity)
5. Business Operations (LSO activity)

DOE Management Responsibilities

LSO Activity

Overview:

One of the key roles of the Stewardship Council is to understand and engage on the various issues regarding the cleanup and post-closure management of Rocky Flats, as well as to provide a forum to foster discussions among DOE, the regulatory agencies, and community members.

2023 Activities:

1. Review information regarding the long-term stewardship and management of the Rocky Flats site, including but not limited to the results of the operational and performance monitoring data of site operations and DOE status reports.
2. Continue to identify key questions about the cleanup and ongoing management, track the effectiveness of site remedies, and understand the impacts to human and ecological receptors.
3. Track the progress made in treating contaminated groundwater at the groundwater treatment systems, including the ongoing uranium treatment evaluation at the Solar Ponds Plume Treatment System (SPPTS).
4. Track the ongoing investigation into the source(s) of elevated actinide levels found in surface water. Of particular note are the cyclic uranium levels in North Walnut Creek at point of compliance WALPOC, elevated levels of actinides at point of evaluation GS10 on South Walnut Creek, and elevated plutonium levels at point of evaluation SW027 in the Woman Creek drainage.
5. Track the ongoing investigation into the presence of per- and polyfluoroalkyl substances (PFAS) in site groundwater and surface water.
6. Track the effectiveness of the remedy implemented to address slumping at the Original Landfill.
7. Track issues related to slumping along North Walnut Creek.

8. Continue to participate in Adaptive Management Plan (AMP) meetings, including technical evaluations of data; track implementation of AMP results, which could include breaching the terminal ponds on Woman and Walnut Creeks.
9. Continue engaging in DOE, CDPHE, and/or EPA assessment(s) of remedy operations and effectiveness.
10. Track development of and, as applicable, participate in conversations regarding resumption of air quality monitoring to establish baseline prior to wildfire.
11. Work with DOE on implementing its LMPIP, including the meetings DOE identified in the LMPIP.
12. Review DOE budgets for implementation of DOE responsibilities.
13. Understand potential legal and regulatory issues regarding implementation of the Rocky Flats Legacy Management Agreement and related site documents; provide this information to the Stewardship Council and to the community.
14. Work with DOE and the regulators to understand technical data regarding implementation and effectiveness of cleanup remedies and long-term controls; communicate this information to the Stewardship Council and to the community.
15. Transmit to appropriate DOE officers and employees any questions and/or concerns of governments, persons, and entities regarding Rocky Flats.
16. As opportunities allow, continue to work with DOE on the development of interpretative signage for the Rocky Flats National Wildlife Refuge.
17. Support the ongoing efforts of the Rocky Flats Cold War Museum to educate successive generations about the history of Rocky Flats, particularly about residual contamination and continued need for long-term stewardship.
18. Track the development of the Jefferson County Parkway as it relates to Rocky Flats.
19. Track Congressional actions/decisions affecting potential mineral development at Rocky Flats and engage as needed.
20. Examine the potential impacts of climate change on site remedies, focusing on climate adaptation and resilience, including shock events and changes over the long term.

Former Rocky Flats Workforce
LSO Activity

Overview:

Many of the former site workers are the constituents of the Stewardship Council governments. Further, the Rocky Flats Homesteaders, which represents more than 1,800 former site workers, sits on the Board of the Stewardship Council. For these and other reasons, as noted in the Stewardship Council's Intergovernmental Agreement, worker issues will, as needed, continue to be an important component of the Stewardship Council's work. At this time, worker issues largely revolve around claims under the Energy Employee Occupational Illness Compensation Program Act (EEOICPA). Workers address claims on an individual basis.

2023 Activities:

1. Forward worker concerns, as necessary.

Outreach
LSO Activity (two exceptions noted)

Overview:

As the LSO for Rocky Flats, a core responsibility for the Stewardship Council is providing a forum to help engage people on Rocky Flats and the ongoing management needs. As part of this mission, it remains essential that the Stewardship Council maintain close communications with DOE, EPA, CDPHE, and Congress.

The local communities have developed over the period of many years a very good working relationship with the two primary regulatory agencies that oversee the site, EPA and CDPHE. It is imperative that the Stewardship Council continue this tradition of partnership with these agencies.

The Colorado congressional delegation likewise plays a critical role in addressing Rocky Flats issues. The Stewardship Council shall remain an important mechanism for addressing questions and concerns of the delegation, as well as providing ongoing interface with the delegation on site-specific issues and concerns.

2023 Activities:

1. Hold quarterly Board meetings and provide opportunity for comment and dialogue.
2. Communicate with other local officials, DOE, state and federal regulators, the Colorado congressional delegation, and other stakeholders about the Stewardship Council's mission and activities, as appropriate.
3. Take public comment on issues related to DOE and USFWS responsibilities at Rocky Flats.¹
4. Evaluate Congressional action affecting DOE and USFWS and administrative action that could affect Rocky Flats.²
5. Maintain communication with federal and state legislators, as appropriate, and track potentially impactful federal and state legislation as needed.
6. Provide opportunities at meetings and in between meetings for education on site-related issues and relevant feedback.
7. Work with DOE to disseminate information on the cleanup and post-closure operations of Rocky Flats.
8. Participate in local, regional, and national forums.
9. Implement mechanisms for the Stewardship Council and the general public to be informed of the results of monitoring data and other relevant site-specific information, recognizing that not all communication between DOE and Rocky Flats constituencies will flow through the Stewardship Council.

Rocky Flats National Wildlife Refuge
Non-LSO Activity (one exception noted)

Overview:

One of the Stewardship Council's roles is to engage on issues related to the development and management of the Refuge. In September 2018, USFWS began allowing public recreation at the Refuge.

¹ Issues related to USFWS are a non-LSO activity.

² Issues related to USFWS are a non-LSO activity.

In addition, USFWS and DOE are discussing a partnership to develop a visitor's center. That center would be sited on refuge lands, with USFWS taking lead on the public engagement process. As the LSO for Rocky Flats, the Stewardship Council would work with DOE on that agency's role in developing the visitor center. (That work with DOE is an LSO activity.) USFWS would take lead on public engagement; Stewardship Council members may be involved in that process.

The items identified in this part of the work plan only concern USFWS.

2023 Activities:

1. Reengage USFWS with the goal of obtaining ongoing briefings on management issues, visitor data, and other pertinent information related to the Rocky Flats Wildlife Refuge and Rocky Flats.
2. Track agency and Congressional action affecting funding for USFWS and the Refuge. Engage as needed.
3. Track issues related to the development of interpretative signage for the Rocky Flats National Wildlife Refuge.³ Engage as needed.
4. Continue to track issues related to the development of trails on the Rocky Flats National Wildlife Refuge.
5. Track issues related to the development of a trail network connecting the Rocky Flats National Wildlife Refuge, Rocky Mountain Arsenal National Wildlife Refuge, Two Ponds National Wildlife Refuge, and Rocky Mountain National Park.
6. Forward information regarding the Refuge to the Board and the public, as appropriate.

Business Operations

LSO Activity

Overview:

Business Operations refers to organizational management responsibilities—conducting the annual audit, submitting financial reports to DOE, adopting the annual Work Plan and annual budget, etc.

2023 Activities:

1. Work with DOE to ensure the Stewardship Council continues to meet its responsibilities as the LSO for Rocky Flats.
2. Operate the Stewardship Council in compliance with state and federal regulations.
3. Conduct a financial audit.
4. Prepare and adopt the annual work plan and the annual budget.
5. Submit financial reports to DOE.
6. Review, and renew as necessary, consulting agreements.
7. Provide an annual report on activities.
8. Appoint community members to the Board (two seats).

³ As noted above, as the LSO for Rocky Flats, the Stewardship Council will work with DOE on that agency's partnership with USFWS in developing interpretative signage. The item identified in this part of the work plan only concerns USFWS's role.

ROCKY FLATS STEWARDSHIP COUNCIL

P.O. Box 17670

(303) 412-1200

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: Board
FROM: David Abelson
SUBJECT: Fiscal Year 2023 Budget Hearing
DATE: October 14, 2022

The Board will hold a budget hearing on the fiscal year 2023 Stewardship Council budget and approve a budget resolution adopting the budget. No changes were offered by the Board at the September 19th meeting except clarifying revenue versus carry-over. This draft includes that requested change.

The budget resolution and hearing notice are attached. Notice was published in the [Denver Post](#).

Action Item: Hold fiscal year 2023 budget hearing and approve resolution adopting the budget

ROCKY FLATS STEWARDSHIP COUNCIL

2023 Budget -- DRAFT #2

	2023 Budget Amounts	2023 Anticipated Expenditures	2022 Budget	2022 Actual/ Projected Expenses*	2021 Expenses
A. Personnel	\$ 102,300.00	\$ 102,300.00	\$ 102,300.00	\$ 102,300.00	\$ 93,000.00
Executive Director and Technical Advisor (\$8,525/month)					
B. Fringe Benefits	\$ -	\$ -	\$ -	\$ -	\$ -
Staff are contractors					
C. Travel	\$ 7,300.00				
Out of State	\$ 6,100.00	\$ 6,100.00	\$ 6,100.00	\$ 4,071.00	\$ 3,088.88
National DOE-related trips					
Local Travel	\$ 1,200.00	\$ 1,000.00	\$ 1,200.00	\$ 235.00	\$ 304.64
\$100/month for 12 months					
D. Computer Equipment	\$ 500.00	\$ -	\$ 500.00	\$ -	\$ -
Purchase misc. hardware, software					
E. Supplies	\$ 1,200.00	\$ 250.00	\$ 1,200.00	\$ 120.00	\$ -
Supplies (\$100/month)					
F. Contractual	\$ 39,500.00				
Attorney & Accounting Services					
Legal Services (\$1400/month)	\$ 16,800.00	\$ 16,000.00	\$ 16,800.00	\$ 15,223.00	\$ 13,597.52
Accounting (\$850/month)	\$ 10,200.00	\$ 5,800.00	\$ 10,200.00	\$ 4,174.00	\$ 4,180.00

Audit Report	\$ 6,500.00	\$ 4,250.00	\$ 6,500.00	\$ 4,250.00	\$ 4,000.00
Admin. Services					
Misc. Services: bank fees, etc.	\$ 1,000.00	\$ 100.00	\$ 1,000.00	\$ 861.00	\$ 341.40
Minutes Preparation (5 meetings)	\$ 3,000.00	\$ 2,500.00	\$ 3,000.00	\$ 1,000.00	\$ 900.00
Local Government Expenses	\$ 2,000.00	\$ 1,500.00	\$ 2,000.00	\$ -	\$ -
Miscellaneous expenses not covered by DOE funds (includes meeting expenses and non-LSO activities)					
G. Construction	\$ -	\$ -	\$ -	\$ -	\$ -
None					
H. Other	\$ 17,100.00				
Printing & Copy	\$ 2,000.00	\$ 250.00	\$ 2,000.00	\$ -	\$ -
Postage \$125/month for 12 months	\$ 1,500.00	\$ 300.00	\$ 1,500.00	\$ 704.00	\$ 703.88
Meeting Room Rental \$500/meeting, 5 meetings/year	\$ 2,500.00	\$ 2,500.00	\$ -	\$ 600.00	\$ -
Liability Insurance					
Property Contents/General Liability	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00
Board Members	\$ 3,500.00	\$ 3,500.00	\$ 3,500.00	\$ 2,768.00	\$ 2,767.61
Telephone, email, etc.	\$ 2,700.00	\$ 1,700.00	\$ 2,700.00	\$ 1,528.00	\$ 1,700.35
Website					
Hosting	\$ 500.00	\$ -	\$ 500.00	\$ -	\$ -
Web master	\$ 1,500.00	\$ 500.00	\$ 1,500.00	\$ 400.00	\$ 355.94
Subscriptions/Memberships					
ECA membership	\$ 950.00	\$ 950.00	\$ 950.00	\$ 950.00	\$ 950.00
Conference registration fees	\$ 800.00	\$ 800.00	\$ 800.00	\$ 800.00	\$ 550.00
Newspapers	\$ 650.00	\$ -	\$ 650.00	\$ -	\$ -

J. Indirect Costs	\$ -	\$ -	\$ -	\$ -	\$ -
N/A					
TOTAL PROPOSED BUDGET	\$ 167,900.00	\$ 150,800.00	\$ 165,400.00	\$ 140,484.00	\$ 126,940.22

REVENUE FOR 2023

Department of Energy grant \$ 150,800.00

CARRY OVER FOR 2023

Local government contributions \$ 10,000.00

RFCLOG carry-over \$ 7,100.00

TOTAL \$ 167,900.00

*2022 Actual/Projected Expenses = actual January through September; projected October through December

STATE OF COLORADO

ROCKY FLATS STEWARDSHIP COUNCIL

The Board of Directors of the Rocky Flats Stewardship Council (“Stewardship Council”), State of Colorado, held a meeting at the Rocky Mountain Metropolitan Airport (formerly Jefferson County Airport), 11755 Airport Way, in Broomfield, Colorado 80021, on October 31, 2022, at the hour of 8:30 A.M., at which a quorum of the Board of Directors was present.

The Executive Director reported that prior to the meeting he had notified each of the Directors of the date, time and place of this meeting and the purpose for which it was called. He further reported that Notice of the Board Meeting has been posted in accordance with the Bylaws of the Stewardship Council and, to the best of his knowledge, remains posted to the date of this meeting.

Thereupon, Director _____, introduced and moved the adoption of the following Resolution:

RESOLUTION

A RESOLUTION SUMMARIZING EXPENDITURES AND REVENUES FOR THE GENERAL FUND AND ADOPTING A BUDGET AND APPROPRIATING SUMS OF MONEY TO THE GENERAL FUND IN THE AMOUNTS AND FOR THE PURPOSES SET FORTH HEREIN FOR THE ROCKY FLATS STEWARDSHIP COUNCIL, STATE OF COLORADO, FOR THE CALENDAR YEAR BEGINNING ON THE 1ST DAY OF JANUARY, 2023, AND ENDING ON THE LAST DAY OF DECEMBER, 2023.

WHEREAS, the proposed budget has been submitted to the Board of Directors of the Stewardship Council for its consideration; and

WHEREAS, upon due and proper notice, published in accordance with law as attached as Exhibit A, said proposed budget was open for inspection by the public at a designated place, a public hearing was held on October 31, 2022, and interested electors were given the opportunity to file or register any objections to said proposed budget; and

WHEREAS, the budget being adopted by the Board has been prepared based on the best information available to the Board regarding the effects of Article X, Section 20 of the Colorado Constitution; and

WHEREAS, whatever increases may have been made in the expenditures, like increases were added to the revenues so that the budget remains in balance, as required by law.

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

Section 1. Summary of 2023 Revenues and 2023 Expenditures. That the estimated revenues and expenditures for the general fund for fiscal year 2023, as more specifically set forth in the budget attached hereto, are accepted and approved.

Section 2. Adoption of Budget. That the budget as submitted, amended, attached hereto and incorporated herein, is approved and adopted as the budget of the Rocky Flats Stewardship Council for fiscal year 2023.

Section 3. Appropriations. That the amounts set forth as expenditures and balances remaining, as specifically allocated in the budget, attached hereto, are hereby appropriated from the revenue of the general fund, to the general fund, for the purposes stated and no other.

Section 4. Budget Certification. That the budget shall be certified by Jan Kulmann, Chair of the Board, and made a part of the public records of the Rocky Flats Stewardship Council.

The foregoing Resolution was seconded by Director _____.

RESOLUTION APPROVED AND ADOPTED THIS 31st DAY OF OCTOBER, 2022.

[Remainder of Page Intentionally Left Blank]

Signature Page to Rocky Flats Stewardship Council
2023 Budget Resolution

ROCKY FLATS STEWARDSHIP COUNCIL

By: _____
Jan Kulmann, Chair

ATTEST:

By: _____
Secretary

STATE OF COLORADO

ROCKY FLATS STEWARDSHIP COUNCIL

I, Jan Kulmann, hereby certify that I am a Director and qualified Chair of the Rocky Flats Stewardship Council, and that the foregoing constitutes a true and correct copy of the record of proceedings of the Board of Directors of said Stewardship Council, adopted at a meeting of the Board of Directors of the Rocky Flats Stewardship Council held on October 31, 2022, at the Rocky Mountain Metropolitan Airport (formerly Jefferson County Airport), 11755 Airport Way, in Broomfield, Colorado, as recorded in the official record of the proceedings of the Stewardship Council, insofar as said proceedings relate to the budget hearing for fiscal year 2023; that said proceedings were duly had and taken; that the meeting was duly held; and that the persons were present at the meeting as therein shown.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the official seal of the Stewardship Council this 31st day of October, 2022.

Jan Kulmann, Chair

EXHIBIT A

NOTICE AS TO PROPOSED 2023 BUDGET

NOTICE IS HEREBY GIVEN that a proposed budget has been submitted to the **ROCKY FLATS STEWARDSHIP COUNCIL** for the fiscal year 2023. A copy of such proposed budget has been filed in the office Seter & Vander Wall, P.C. 7400 East Orchard Road, Suite 3300, Greenwood Village, Colorado, where same is open for public inspection. Such proposed budget will be considered at a meeting of the Rocky Flats Stewardship Council to be held at 8:30 A.M. on Monday, October 31, 2022. The meeting will be held at 11755 Airport Way, in Broomfield, Colorado. Any interested party may inspect the proposed budget and file or register any objections at any time prior to the final adoption of the 2023 budget.

BY ORDER OF THE EXECUTIVE COMMITTEE:
ROCKY FLATS STEWARDSHIP COUNCIL

By: /s/ SETER & VANDER WALL, P.C.
Attorneys for the District

Publish in: The Denver Post
Publish on: Monday, October 17, 2022

**ROCKY FLATS STEWARDSHIP COUNCIL
2023 BUDGET MESSAGE**

SUMMARY OF SIGNIFICANT ASSUMPTIONS

Services Provided

The purpose of the Rocky Flats Stewardship Council, consistent with public health, safety and welfare, is to provide an effective mechanism for local governments in the vicinity of Rocky Flats and their citizens to work together on issues of mutual concern relating to the future use and long-term protection of Rocky Flats, and to serve as a focal point for local government communication and advocacy with state and federal agencies regarding Rocky Flats issues.

Revenue

The Stewardship Council receives its revenues from the Department of Energy; Rocky Flats Coalition of Local Governments; and Local Government contributions (Boulder County, Jefferson County, City and County of Broomfield, Cities of Arvada, Boulder, Golden, Northglenn, Thornton, and Westminster and Town of Superior).

Expenditures

The funds are used for G&A, overhead expenses, as well as costs incurred with buffer zone and stewardship planning processes.

The Stewardship Council prepares its budget on the modified accrual basis of accounting.

ROCKY FLATS STEWARDSHIP COUNCIL

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League of Women Voters ~ Rocky Flats Cold War Museum ~ Rocky Flats Homesteaders
Kim Griffiths

MEMORANDUM

TO: Board
FROM: David Abelson
SUBJECT: LSO Member Interviews
DATE: October 3, 2022

At the October 31st meeting, the 10 governments will interview and appoint two organizations/ individuals for seats on the Rocky Flats Stewardship Council. Under our governing documents, there are four community seats on the Board of Directors. They are currently held by League of Women Voters, Rocky Flats Homesteaders, Rocky Flats Cold War Museum, and Kim Griffiths. The terms are staggered and are for two years, commencing in February. Seats held by Rocky Flats Cold War Museum and Kim Griffiths are up for appointment.

Four applied for membership:

Rocky Flats Cold War Museum (current member)
Kim Griffiths (current member)
Travis Culley
Herb Fenster

The applicants' responses are attached.

Action Item: Interview candidates and make the appointments

**Rocky Flats Cold War Museum
(current member)**

Rocky Flats Stewardship Council 2023-2024 Membership Application

Name: Arthur S. (Murph) Widdowfield

Name of organization represented (if applicable): Rocky Flats Cold War Museum

Address: 7385 Quartz Street, Arvada, CO 80007-7632

Telephone: 303-904-4094 (home); 303-910-3104 (cell); museum phone: 720-287-1717

Email: murphwid@gmail.com

Title (if applicable): President of the Board

Membership category: Historic Preservation (museum)

Number of individuals/groups your organization represents: 600 to 800 estimated

Time Commitment

We do not have any time constraints and can have a representative at all meetings. Our members have a very strong foundation on the history of the site, cleanup and monitoring activities. Our organization is committed to tell the complete story of Rocky Flats.

Assignment of Director and Alternate Directors

Meeting attendance is vitally important so each organization must be able to appoint a Director and up to two Alternate Directors to serve in the absence of the Director. Our Director and Alternate Director are indicated below.

Director: Murph Widdowfield

Alternate: Ken Freiberg

Bio: Arthur S. (Murph) Widdowfield

Murph has a background in heavy construction and engineering and was the President, GM of a construction company for over twenty years. Contracts included the mining and milling operations for copper, molybdenum, uranium, precious minerals and others. The company also built and maintained power plant, refinery and other heavy industrial operations that included the Rocky Mountain Arsenal and Rocky Flats Nuclear Weapons Plant. He has been a Jefferson County resident since 1948, graduated from Wheat Ridge High School and spent three years in the U.S. Army in Germany. His college background is in engineering, construction management and law and estimating. He has had many roles during his 32 years in Lakewood Rotary Club and has served as a volunteer for the National Western Stock Show, Red Cross, Rocky Mountain Horse Expo and many other small organizations as well as the Rocky Flats Museum.

He became part of the Rocky Flats Stewardship Council about twelve years ago as a community member and was then asked to become a board member of the Rocky Flats Cold War Museum. He has served the museum as a board member, treasurer and president. He has helped to create exhibits, organize volunteer working sessions and has done many presentations on Rocky Flats for school, college and community groups

Bio: Ken Freiberg

Ken became employed by Dow Chemical Co in 1953. He began in Health Physics, became Construction Manager and later Manager of Building Maintenance. He remained at Rocky Flats during the tenure of Dow Chemical Co., Rockwell International Co., EG&G and also Kaiser-Hill. He served thirty-two years in the U.S. Air Force and Air National Guard

Statement of Interest

Members of the board of the Rocky Flats Cold War Museum have struggled to save the history of the former nuclear weapons plant since 1999 and incorporated as a 501c3 non-profit in 2001. The boards goal has always been to save the entire history of Rocky Flats, including activities of various activist groups. No other museum has been working to save Rocky Flats artifacts and other historic materials for the public. The board has collaborated with the Boulder Library's Maria Rogers Oral History Program on a large collection of interviews with former Rocky Flats workers, political leaders and activists. These interviews are online and available to the public. The interviews offer insight, anecdotes and details about Rocky Flats history that are compelling and shed light on a formerly secret government operation.


Several of the board members are former Rocky Flats workers, one heads the Rocky Flats Homesteaders and another is an International Museum Consultant. Four are representatives of the companies that provide health care for ex-workers under the EEOICPA (Energy Employees Occupational Illness Compensation Program Act). All board members have a fairly extensive knowledge of Rocky Flats history and issues. Board members have given many talks and programs each year to school and civic groups about Rocky Flats, the Oral History Project and the museum development. We want to monitor Rocky Flats long-term stewardship issues that arise on the Stewardship Council and also provide information to the public through our Facebook page, Web site and personal outreach.

The museum gave some of its artifacts to the U.S. Department of Energy to place in the proposed Visitor Center to be built on the Rocky Flats Wildlife Refuge. Board members hope to volunteer at the center when it opens, to provide accurate information about the plants history and site, since some misinformation, rumor and speculation have been part of the public dialogue.

Conflict of Interest Statement

To maintain public trust and accountability, all applicants must identify any conflict of interest or a potential conflict of interest. "Conflict of Interest" is broadly defined as (1) having a direct financial interest in any issue related to the management of Rocky Flats and/or (2) currently being engaged in a lawsuit against the Department of Energy, the Department of Interior, Jefferson County, Boulder County, The City and County of Broomfield, the cities of Arvada, Boulder, Golden, Northglenn, Thornton, and Westminster, and the Town of Superior. Any such conflicts must be listed below.

The Rocky Flats Cold War Museum has no such conflict of interest.


Signature


Signature

A.S. Widdowfield
Print Name/Date

Kenneth J. Feaseburg
Print Name/Date

Kim Griffiths
(current member)

Rocky Flats Stewardship Council

Membership Application

2023-2024

Name: Kim Griffiths

Address: 15589 W 95th Pl, Arvada, CO 80007

Cell Phone: 303-916-5696

Email: kagriff.kg@gmail.com

Membership Category: Landowner in Candelas, adjacent to Rocky Flats

1. Time Commitment: I have been a member of the Rocky Flats Stewardship Council for six years. I have attended all meetings but one in October of 2019. I also attend all the Executive Council meetings. I have other volunteer commitments but have been reliably present and prepared for all meetings and would continue to do so if reappointed as a member.
2. Assignment of Alternate: I am applying for membership as an individual. Short bio: I am a nurse by training and worked in a clinical setting for twenty years. I also hold a master's degree in health care systems from the University of Denver. I have worked in healthcare insurance and quality improvement. I currently am on the Board of Directors of Donor Alliance, the organ and tissue procurement organization for Colorado and Wyoming, which facilitates organs and tissue that provide the gift of life through transplantation. I have recently been appointed to the Donor Alliance Foundation Board, which is focused on solving the problem of inequitable and unequal access to donation and transplantation services. I also serve as a judge for the Quality Award Program of the American Healthcare Association, with the goal of improving healthcare quality in skilled nursing and rehabilitation facilities.
3. Statement of Interest: I continue to have a keen interest in the ongoing discussions of the Stewardship Council. I have learned a great deal about the history of Rocky Flats and will remain engaged in knowing what future plans hold for the area where I live. I also communicate with Candelas and surrounding communities via the website that I co-author

with David Wood, a retired physics professor from the Colorado School of Mines (<https://rockyflatsneighbors.org>), The website presents finding which are expressed primarily through scientific journals that are peer-reviewed and maintain rigorous standards for honesty and accuracy.

4. Conflict of Interest: I have no conflict of interest and have no direct financial interest in any issue related to the management of Rocky Flats.

Thank you for your consideration of me as a Stewardship Council member. I am honored to have served in this role for six years, hope to continue, and look forward to ongoing participation in the dialogue.

Kim Griffiths

Kim Griffiths/Sept.16, 2022

Travis Culley

Travis Hugh Culley
NuClub Boulder
3480 Hayden Place #5
Boulder, Co 80301
720-739-8484
memebplot@gmail.com

35 followers

David Ableson,

First, it was my pleasure to be introduced by you last month and allowed to share my concerns about the post-closure management of the Rocky Flats facility.

Today, I would like to make my statement of interest in joining the Stewardship Council. Please involve me in these meetings and include me in future conversations. I think I am well suited to sit on the Stewardship Council. As a child, I was raised in Arvada, South of 72nd Street. I attended Swanson Elementary School. I am a local in the deepest sense of the word, and my life experiences to my great happiness have brought me back home.

I am a writer with a history in publishing with Penguin Random House. I live up to my word. I speak only the truth, and I will trouble you with nothing else. That is my promise.

In the game of 2 truths and a lie, I have only truths. I only have interest in giving this wandering conversation some direction in the coming year.

Truth Number 1: I have no conflicting interests.

Truth Number 2: Like you, I have no time to waste.

Truth Number 3: I am committed to working with each of you on the Stewardship Council and among the Board as professionals.

My position is that the person you need in this conversation next year is a devil's advocate brave enough to say exactly what others may not be brave enough to hear.

When I worked for people and did things, I was a bike messenger. I became a writer with substantial, if few, credits to my name. You may see me as arrogant, in my tenor or approach to truth speaking, but I have nothing to protect and no conflicting interests. I have the truth of my experience, of conscience, and of human intelligence. I am exactly as I seem. I am concerned for people who've elected to live to live close to the Rocky Flats Wildlife Refuge. I am concerned with the property and place that people in the public call homes. I am concerned with lives that are mismanaged as a result of chemicals that were mismanaged. I am concerned for you, for myself, for every human being who attempts to manage plutonium 239 and the long list of VOCs, heavy metals that hide in its' penumbra.

To understand the challenge ahead, we should look to art not to science alone. To make the science real to the public, someone with the sense for how a complex matter needs to be viewed could do a very real service for the dry data specialists in the room.

Here is one fine example: This painting from the collection of the Art Institute of Chicago, Hercules and the Lernaean Hydra.



<https://catamite-art.blogspot.com/2014/05/didoofcarthage-hercules-and-lernaean>

In this image, we are shown two figures at first glance, but the truth is more complex. The taller figure in the fight has seven heads. Hercules has only one chance, and one weapon. The second complexity is that Hercules is not walking on stable ground at all. In fact, buried in the dust, reduced to bone and ash are the corpses of heroes like Hercules who have come before.

For the Rocky Flats Stewardship Council: I do not come to you with an authority complex, or an issue with the people on the current council. I have only one chance to remind you that, like with plutonium, you will never defeat the Lernaean Hydra with water. That the bodies beneath Hercules' feet are our bodies. So why Hercules is cool? I believe it is because he is on a path to redemption. He is not concerned with winning or losing, victory or defeat.

Where the Stewardship Council has lacked courage, it has lacked purpose. I believe the direction of this council needs to move toward having a public-facing answer and all-inclusive action-plan for the next fire. I think the Council needs to address the exponential rise in the rate of wildfires in Colorado. If not, what is it doing? We need a response plan that informs fireteams and equips them with CO2 or other suitable fire retardants that meet the scale of the present danger to them. This needs to be done with urgency and vision. In 1957, the Rocky Flats fire was fought with water – as a last resort. In 1969, the same was done. In 2021, only months ago, water was the other reason fire teams were overwhelmed.

Is this the competent body that allows this basic mistake to persist? If I am approved, and allowed to voice my concerns in future meetings, I will push for a new column of action for the RFSC to review, revise and be responsible to about the sudden combustibility on the Front Range of Colorado, and in its cities and counties.

As with the Lernaean Hydra, we have one chance to give purpose to the various bodies that come together under your direction, David. In the coming year, I don't think there is anything more important than educating the public about the heightened likelihood of destructive fires that may be fueled by toxic waste.

I can and will, if chosen, commit the time above and beyond 5 to 10 hours a week by living up to the requirements of this council when in quorum and in volunteering my private time to further research and reading about the Rocky Flats area.

A handwritten signature in black ink, appearing to read "T Culley". The signature is stylized with a large "T" and a cursive "Culley".

Travis Hugh Culley

Sept 29th 2022

Herb Fenster

From: [Herb Fenster](#)
To: [David Abelson](#)
Subject: Rocky Flats Stewardship Council - Membership Application
Date: Tuesday, September 13, 2022 6:05:27 PM

David,

I understand that there is a place for an unaffiliated member on the Council for the period 2023-2024. If that is the case, I would like the Council to consider the following information to represent my application. Of the five "characteristics" stated to guide membership, and as detailed below, I believe I can contribute to all five. I wish to emphasize that I would bring NO AFFILIATIONS whatsoever and am only a member of the public.

Of the nine "categories" designated for membership, and as I shall detail below, I believe I would represent numbers 4, 8 and 9.

Herbert L Fenster

3800 Pike Road, Apt 14-104
Longmont, Colorado 80503

303 834 9673; cell 303 808 4882

herbfenster@gmail.com

General Public; individual membership

Responses To The Four Questions

1. As I am retired (from the Washington law firm of Covington & Burling) I am able to commit whatever time is expected of an individual member. As noted in further detail below, I have a very long "history" of experience at the Rocky Flats site including, importantly, the cleanup.

2. Not applicable - I anticipate that I shall be able to attend all meetings.

3. BIOGRAPHY AS RELEVANT

University of Pennsylvania AB/BS Civil Engineering, MS Economics 1957/58; University of Virginia LLB/JD 1961. Practice of law in Washington, D.C. 1961-2020. Retired from Covington & Burling. Practice included representation of companies with interests in nuclear (reactor) design, engineering, development and operation. These included General Dynamics, Electric Boat Division; Babcock & Wilcox; Westinghouse; Bechtel; MK-Joint Venture; Dow; NLO (National Lead) and others. Practice included representation of NLO at the Fernald site, its closure and litigation relating to the closure. Representation also included Westinghouse as part of the CH2MHill Joint Venture and in this connection was involved in the site remediation. Representation included Westinghouse (prior to CBS acquisition) and General Electric in the design and development of reactors for SSN/SSBNs.

I have had additional experience in the management and closure of nuclear research and

production sites; until my retirement I held a "Q" clearance.

I moved to Boulder, Colorado from Washington, D.C. in the Spring of 1994 and, until retirement, commuted to Washington. In Colorado and at the University, I chaired what was known as the "SAAB" - a University Commission which assessed the adequacy of the University's physical plant. I was one of the founders of ATLAS, an Institute on the Boulder campus. I continue to be active in University affairs.

Responding to Paragraph 4: I would have no conflicts of interest of any kind whatsoever and would have none if appointed to the Council.

Herbert L Fenster /s/

David: I would appreciate the Council's consideration of the foregoing as my application for 2023-2024 membership.

Thanks and Regards

Herb

DOE Quarterly Report

- Cover memo
- Selection of Quarterly Report

ROCKY FLATS STEWARDSHIP COUNCIL

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Kim Griffiths

MEMORANDUM

TO: Stewardship Council Board of Directors
FROM: Melissa Weakley
SUBJECT: DOE's Quarterly Report Briefing
DATE: October 20, 2022

DOE will present an overview of remedy-related surveillance, monitoring, and maintenance activities conducted at Rocky Flats during the second quarter (April 1 to June 30) of calendar year 2022. The full report can be accessed here: https://lmpublicsearch.lm.doe.gov/lmsites/42398_rfs_2q22.pdf.

Quarterly Report Summary

- **Present Landfill (PLF):** One quarterly inspection (May 17) and one weather-related inspection (June 2) were conducted. No issues were identified during these inspections.
- **Original Landfill (OLF):** Three monthly inspections (April 18, May 19, and June 21) and one weather-related inspection (June 2) were conducted. No issues were observed during these inspections.
- **Central Operable Unit (COU):** One weather-related inspection was performed inside the COU (June 2). No new erosion, subsidence, or anomalies were discovered this quarter.
- **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.
 - The slump block moved 0.1 feet this 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.
 - The ETPTS subsurface discharge gallery (replaced in Q1 2022) received additional upgrades.
- **Groundwater Treatment System Monitoring**
 - Routine quarterly effluent samples were collected from the Present Landfill Treatment System (April 4).
 - All analyte concentrations in the effluent samples were below the RFLMA standards.

- **Groundwater Monitoring:** 84 groundwater samples were collected and analyzed (see attached Monitoring Location figure).
 - Results were generally consistent with previous data.
 - In particular, the concentration of trichloroethene (TCE) in samples from well 10304 and uranium in samples from well B206989 were below applicable RFLMA standards.

- **Surface Water Monitoring:** A total of 17 composite surface water samples, 13 surface water grab samples, and 19 treatment system grab samples were collected and analyzed (see attached Monitoring Location figure).
 - Although no flow has occurred at monitoring location SW027 in 2022, and thus no samples have been collected, the 12-month rolling average Pu concentrations for May 31 and June 30, 2022, cause a reportable condition. These average Pu concentration values include only a single sample collected the previous year, representing flow from May 20, 2021, to July 2, 2021. The 12-month concentrations calculated for the second quarter of 2022 increased because lower concentration samples collected earlier in 2021 were no longer included in the averaging period, not because new sample results were added in 2022. The 2022 reportable condition is essentially a continuation of the 2021 reportable condition, since both were caused by data collected in 2021. The 2021 sample results and corresponding reportable condition are addressed in Contact Record 2021-03. The Board discussed this Contact Record at the November 2021 Board meeting.
 - All other analyte concentrations at RFLMA Point of Evaluation locations GS10, SW027, and SW093 remained below reportable condition levels during Q2 2022.
 - All analyte concentrations at RFLMA Point of Compliance locations WALPOC and WOMPOC also remained below reportable condition levels during Q2 2022.

Attachments

Q2 2022 Report Cover Page, Table of Contents, and Abbreviations
 Rocky Flats Site Water Monitoring Locations

**Rocky Flats Site, Colorado,
Quarterly Report of
Site Surveillance and Maintenance
Activities, Second Quarter,
Calendar Year 2022**

October 2022



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

Contents

Abbreviations	iii
Executive Summary	iv
1.0 Introduction	1
2.0 Site Operations and Maintenance	2
2.1 Landfills	2
2.1.1 Present Landfill	2
2.1.2 Original Landfill	2
2.1.2.1 Inspection Results	2
2.1.2.2 Settlement Monuments	3
2.2 COU Inspections	3
2.3 North Walnut Creek Slump	3
2.4 Site Roads Maintenance	4
2.5 Groundwater Treatment Systems	4
2.5.1 Mound Site Plume Collection System	4
2.5.2 East Trenches Plume Treatment System	4
2.5.3 Solar Ponds Plume Treatment System	5
2.5.4 Present Landfill Treatment System	6
2.6 Sign Inspection	6
2.7 Erosion Control and Revegetation	6
3.0 Environmental Monitoring	7
3.1 Water Monitoring	7
3.1.1 Water Monitoring Highlights	7
3.1.2 POC Monitoring	10
3.1.2.1 Monitoring Location WALPOC	10
3.1.2.2 Monitoring Location WOMPOC	13
3.1.3 POE Monitoring	16
3.1.3.1 Monitoring Location GS10	16
3.1.3.2 Monitoring Location SW027	17
3.1.3.3 Monitoring Location SW093	19
3.1.4 AOC Wells and Surface Water Support Location SW018	20
3.1.5 Sentinel Wells	20
3.1.6 Evaluation Wells	20
3.1.7 PLF Monitoring	20
3.1.8 OLF Monitoring	21
3.1.9 Groundwater Treatment System Monitoring	21
3.1.9.1 Mound Site Plume Collection System	21
3.1.9.2 East Trenches Plume Treatment System	21
3.1.9.3 Solar Ponds Plume Treatment System	21
3.1.9.4 Present Landfill Treatment System	22
3.1.10 Predischage Monitoring	22
4.0 Adverse Biological Conditions	23
5.0 Ecological Monitoring	23
6.0 References	23

Figures

Figure 1. Rocky Flats Site Water Monitoring Locations and Precipitation Gages.....	9
Figure 2. Volume-Weighted 30-Day Average Plutonium and Americium Activities at WALPOC: Year Ending Second Quarter 2022	10
Figure 3. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at WALPOC: Year Ending Second Quarter 2022.....	11
Figure 4. Volume-Weighted 30-Day Average Uranium Concentrations at WALPOC: Year Ending Second Quarter 2022	11
Figure 5. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at WALPOC: Year Ending Second Quarter 2022	12
Figure 6. Volume-Weighted 30-Day Average Nitrate + Nitrite as Nitrogen Concentrations at WALPOC: Year Ending Second Quarter 2022	12
Figure 7. Volume-Weighted 12-Month Rolling Average Nitrate + Nitrite as Nitrogen Concentrations at WALPOC: Year Ending Second Quarter 2022	13
Figure 8. Volume-Weighted 30-Day Average Plutonium and Americium Activities at WOMPOC: Year Ending Second Quarter 2022	14
Figure 9. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at WOMPOC: Year Ending Second Quarter 2022.....	14
Figure 10. Volume-Weighted 30-Day Average Uranium Concentrations at WOMPOC: Year Ending Second Quarter 2022	15
Figure 11. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at WOMPOC: Year Ending Second Quarter 2022	15
Figure 12. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at GS10: Year Ending Second Quarter 2022.....	16
Figure 13. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at GS10: Year Ending Second Quarter 2022	17
Figure 14. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at SW027: Year Ending Second Quarter 2022.....	18
Figure 15. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at SW027: Year Ending Second Quarter 2022	18
Figure 16. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at SW093: Year Ending Second Quarter 2022.....	19
Figure 17. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at SW093: Year Ending Second Quarter 2022	20

Appendixes

Appendix A	Landfill Inspection Forms and Survey Data, Second Quarter 2022
Appendix B	Analytical Results for Water Samples, Second Quarter 2022

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
ETPTS	East Trenches Plume Treatment System
IC	institutional control
ITSS	Interceptor Trench System Sump
LM	Office of Legacy Management
MSPCS	Mound Site Plume Collection System
N	nitrogen
OLF	Original Landfill
PAH	polycyclic aromatic hydrocarbons
pCi/L	picocuries per liter
PLF	Present Landfill
PLFTS	Present Landfill Treatment System
POC	Point of Compliance
POE	Point of Evaluation
Pu	plutonium
RCRA	Resource Conservation and Recovery Act
RFLMA	<i>Rocky Flats Legacy Management Agreement</i>
RFSOG	Rocky Flats Site Operations Guide
SIM	selected ion monitoring
SPPTS	Solar Ponds Plume Treatment System
SVOC	semivolatile organic compounds
VOC	volatile organic compound

Executive Summary

This report for the second quarter (April 1–June 30) of calendar year (CY) 2022 includes information on the remedy-related surveillance, monitoring, and maintenance activities conducted at the Rocky Flats Site, Colorado (Site), managed by the U.S. Department of Energy Office of Legacy Management. This report summarizes the maintenance and inspection of the two closed Site landfills and four groundwater collection or treatment systems, the inspection of the perimeter signs of the Central Operable Unit, erosion control and revegetation activities, and water and ecological monitoring.

The Present Landfill quarterly inspection for the second quarter of CY 2022 was conducted on May 17, 2022. A weather-related inspection was conducted on June 2, 2022, after the site received greater than 1 inch of precipitation in a 24-hour period. No other issues were identified during these inspections.

The Original Landfill (OLF) monthly inspections for the second quarter were conducted on April 18, May 19, and June 21, 2022. A weather-related inspection was conducted on June 2, 2022, after the site received greater than 1 inch of precipitation in a 24-hour period. No issues were observed during these inspections. Vegetation continues to fill in areas disturbed by the OLF Slope Stabilization Project.

Routine maintenance was performed at the Mound Site Plume Collection System, the East Trenches Plume Treatment System (ETPTS), the Solar Ponds Plume Treatment System, and the Present Landfill Treatment System during the second quarter. The ETPTS subsurface discharge gallery, which was replaced in the first quarter of 2022, received additional upgrades during the second quarter.

Water monitoring met the targeted monitoring objectives required by the *Rocky Flats Legacy Management Agreement* (RFLMA). During the quarter, 17 flow-paced, composite surface water samples; 13 surface water grab samples; 19 treatment system grab samples; and 84 groundwater samples were collected in accordance with RFLMA-required protocols and were submitted for analysis.

Although no flow has occurred at monitoring location SW027 in 2022, and accordingly no samples have been collected, the 12-month rolling average plutonium concentrations for May 31 and June 30, 2022, cause a reportable condition. These average plutonium concentration values include only a single sample collected the previous year, representing flow from May 20, 2021, to July 2, 2021. The 12-month concentrations calculated for the second quarter of 2022 increased because lower concentration samples collected earlier in 2021 were no longer included in the averaging period, not because new sample results were added in 2022. The 2022 reportable condition is essentially a continuation of the 2021 reportable condition, since both were caused by data collected in 2021. The 2021 sample results and corresponding reportable condition are addressed in Contact Record 2021-03.

Using the available data¹, all other analyte concentrations at RFLMA Point of Evaluation (POE) locations GS10, SW027, and SW093 remained below reportable condition levels during the second quarter of CY 2022.

Using the available data², all analyte concentrations at RFLMA Point of Compliance (POC) locations WALPOC and WOMPOC also remained below reportable condition levels during the second quarter.

RFLMA-required groundwater monitoring during the second quarter of CY 2022 was conducted at all RFLMA monitoring wells. Several locations were dry. Results were generally consistent with previous data. Groundwater monitoring data presented in this quarterly report will be evaluated as part of the annual report for CY 2022.

Ecological monitoring consisted of weed mapping, nest box surveys, prairie dog surveys, wetland water-level surveys, wetland weed surveys, showy milkweed (*Asclepias speciosa*) monitoring, and wildlife monitoring. Land management activities included conducting interseeding, installing erosion controls, installing willow stakes, and managing weeds.

¹ The composite sample from POE GS10 started on June 7, 2022, is still in progress. Analytical results for the composite sample from POE SW093, started on May 24, 2022, are pending.

² The composite sample from POC WOMPOC started on June 7, 2022, is still in progress. Therefore, average concentrations can only be calculated through June 6, 2022.

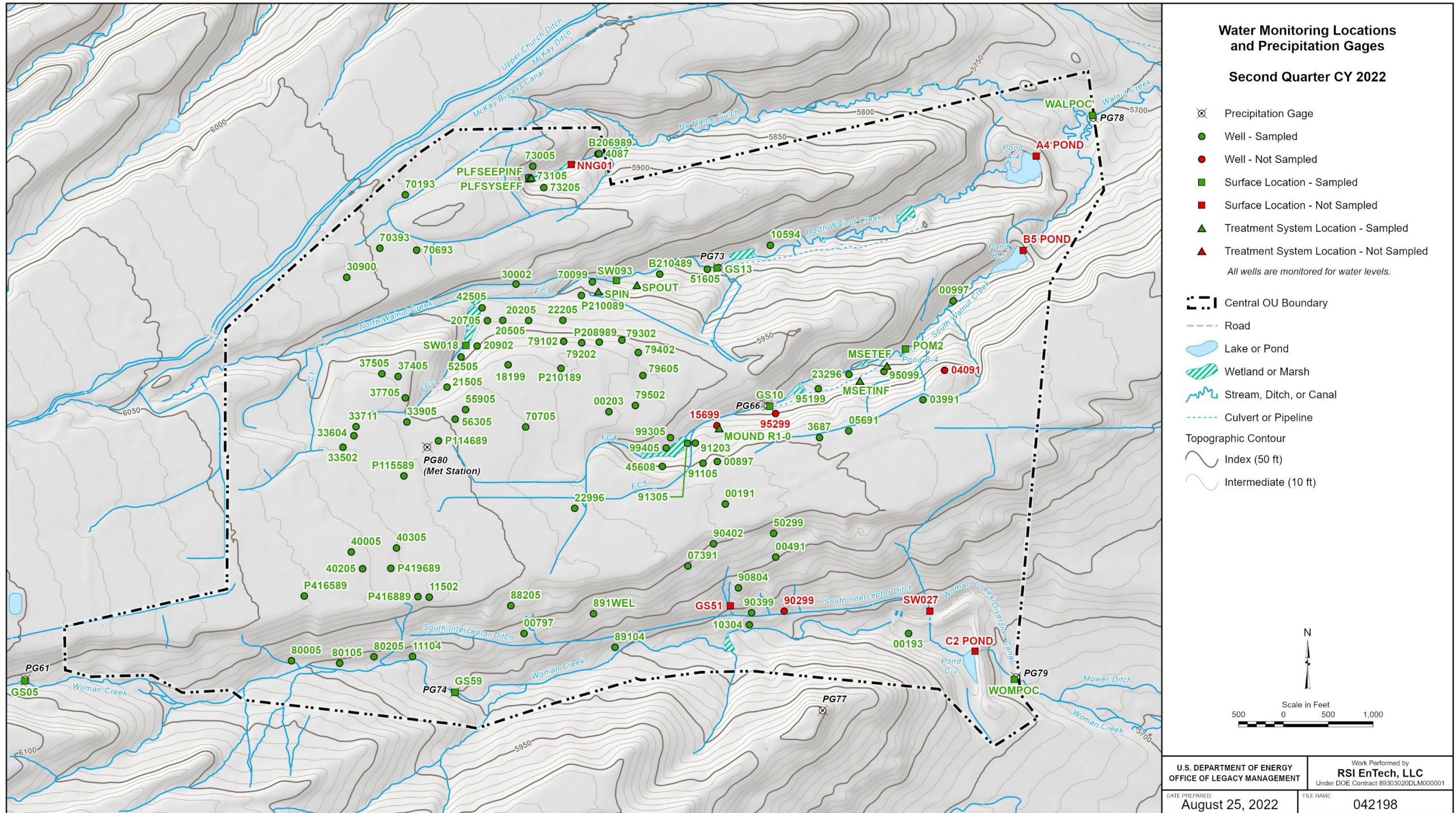


Figure 1. Rocky Flats Site Water Monitoring Locations and Precipitation Gages

Appendix

- Meeting Protocols
- Acronym List

ROCKY FLATS STEWARDSHIP COUNCIL

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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

Rocky Flats Stewardship Council – Meeting Overview and Protocols

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

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

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

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

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

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

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

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

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.

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

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.

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

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.

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

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.

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

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.

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

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.