

Virginia PFAS Occurrence & Monitoring Subgroup
Virginia Department of Health Office of Drinking Water
June 3, 2021, 2 pm
Virtual Meeting by WebEx

1. Call to Order
Bob Edelman with the Office of Drinking Water (ODW) called the meeting to order at 2:00 p.m. The meeting was virtual via WebEx. Refer to the PowerPoint presentation along with these minutes.
2. Attendance
Attendees entered their name and affiliation into the chat box.

Members

Jamie Hedges (Fairfax Water)
Michael McEvoy (Western Virginia Water Authority)
Anna Killius (James River Association)

VDH ODW

Nelson Daniel
Bob Edelman
Jack Hinshelwood

Guests

Amanda Waters (Aqualaw)
Ellen Egen (Aqualaw)

3. Meeting Overview – Review Agenda
Bob Edelman reviewed the agenda. No changes to the agenda were proposed.
4. Approve minutes from the May 6, 2021 subgroup meeting
Bob Edelman asked if there were any changes or corrections to the last meeting minutes. No changes were proposed and the Subgroup approved the minutes.
5. Sampling Program – Bob Edelman provide a briefing – see slides 5 and 6
ODW has finalized the *PFAS Sampling & Monitoring Study in Virginia Drinking Water*.
ODW posted a copy of the Sampling Study on the PFAS Workgroup SharePoint site.

ODW has reached out to 50 waterworks to request an agreement to participate in the monitoring and occurrence study. To date, forty (40) waterworks have indicated their willingness to participate in the study. During May, the laboratory sent out sample kits to all 40 waterworks. A total five waterworks have not responded and 5 declined or withdrew.

ODW is selecting replacement systems based on slide 7. ODW is working the way down the list from the largest 17 waterworks, not already covered by the sampling plan. ODW offered

to sample at all the groundwater systems located within 1 mile of airports and unlined landfills, so there are no new candidates. ODW has reached out to Lynchburg, Suffolk, and Harrisonburg and is working through the list of candidate systems on slide 8. ODW reached out to Rivanna Water & Sewer Authority, who has already sampled, and offered to pass to allow other systems the opportunity to sample.

6. Quality Assurance Project Plan (QAPP) – briefing – See slide 9
EPA conditionally approved the QAPP on 4/12/21 until 5/12/21. ODW corrected the requested items and resubmitted on 4/21/21. EPA noticed that ODW is using the Department of Defense (DoD) method for non-potable (i.e., raw, untreated) water. EPA provided a list of data needs for their review of this method. ODW requested the needed data from the laboratory and the laboratory provided the data to ODW. EPA approved the QAPP on May 12, 2021, including the method for non-potable water. On May 13, ODW released the list of non-potable water samples to the laboratory.
7. Laboratory – Briefing – See slide 10
The Laboratory has shipped out sample kits to 40 waterworks.
The laboratory is analyzing Virginia’s samples together as a batch. We expect sample results late this week.
8. VA PFAS Communication Toolkit – See slide 11
ODW shared the draft VA PFAS Communication Toolkit with the Policy Subgroup for input and comments, and incorporated their comments. ODW issued the final VA PFAS Communication toolkit on May 21 to water systems.

A workgroup member thanked ODW for listening to and incorporating many of the workgroup’s comments into the toolkit.

9. Next steps for PFAS Data – see Slide 12
ODW and waterworks will receive data simultaneously. All sample data is “provisional” until it passes QA/QC. ODW will compile data that passes QA/QC into a data table, likely by mid-July. ODW envisions producing a report to explain and put the data into perspective, similar to a journal article that includes objectives, methodology, sample locations, analytical methods, FAQs, map or other graphical depiction of data, conclusions etc. ODW plans to share the data table and the draft report with participating waterworks, one week in advance of sharing with the public by posting on ODW’s website.

Bob clarified that this report and data table to be posted on the ODW website are separate and distinct from the reports required by the General Assembly, and ODW is targeting mid-July to share with participating waterworks.

House Bill 1257 requires a report to the General assembly, due October 1, 2021. ODW must complete a draft report for internal review by August 15. House Bill 586 requires a report to the General Assembly, due December 1, 2021. ODW must complete a draft for internal review by October 15.

A member asked about the particular requirements of the two GA bill. Nelson Daniel provided the following answers:

HB586: The work group shall report its findings and recommendations to the Governor and the Chairmen of the House Committees on Agriculture, Chesapeake and Natural Resources and Health, Welfare and Institutions and the Senate Committees on Agriculture, Conservation and Natural Resources and Education and Health by December 1, 2021.

HB1257: The Department of Health shall report to the Chairmen of the Senate Committee on Education and Health and the House Committee on Health, Welfare and Institutions on the status of research related to MCLs, the review of which is required by subsection B of § 32.1-169 of the Code of Virginia, as amended by this act, by November 1, 2020, and shall submit a final report to the Chairmen of the Senate Committee on Education and Health and the House Committee on Health, Welfare and Institutions by October 1, 2021, detailing the MCL regulations established by the Department of Health.

Nelson pointed out that the second enactment clause in HB1257 says "the provisions of this act shall become effective on January 1, 2022." Although this is true, ODW is completing the work and providing the report as required by the House Bill.

A member commented that getting information out to the public as soon as possible, while allowing utilities time to review the data is important, and expressed appreciation for laying out the plans as described.

10. Public Comments – There were no public comments.

11. Action Items

ODW will reach out to replacement systems

ODW will receive sample results, track and complete QA/QC on sample results

12. Next Meeting – July 1, 2021, 2 – 4 pm.

Virginia PFAS Workgroup

Monitoring and Occurrence Subgroup

Robert D. Edelman, PE
Virginia Department of Health
June 3, 2020

Subgroup Members

David Jurgens (City of Chesapeake)

Jamie Hedges (Fairfax Water)

Mark Estes (Halifax County Service Authority)

Jessica Edwards (Loudoun Water)

Mike McEvoy (Western Virginia Water Authority)

Henry Bryndza (Consultant, formerly with DuPont)

Jeff Steers (VDEQ)

Dwight Flammia (State Toxicologist)

Anna Killius (James River Assoc)

Tony Singh (VDH ODW)

Jack Hinshelwood (VDH ODW)

Bob Edelman (VDH ODW) - VDH Lead*

PFAS Workgroup Meeting Overview

Meeting Overview

- Call to Order
- Attendance
- Meeting Overview – Review Agenda
- Approve minutes from the previous subgroup meeting
- Sampling Program – briefing
- Quality Assurance Project Plan - briefing
- Laboratory – briefing
- Sampling Results- briefing
- Public Comments
- Action Item Review
- Adjourn



Meeting Minutes

Need to approve meeting minutes of May 6, 2021

Minutes are published on:

- Virginia Town Hall
- <https://townhall.virginia.gov/> search for **PFAS**

Members receive email with minutes

Minutes saved on the PFAS Workgroup SharePoint

- PFAS Monitoring and Occurrence Subgroup > Meetings

Sampling Program

- Finalized the PFAS Sampling & Monitoring Study in Virginia Drinking Water
- Reached out to 50 waterworks to request an agreement to participate
- Received 40 positive responses from waterworks
 - Four declined
 - ODW withdrew one offer
 - Five have not responded
 - 40 waterworks participating
- Lab sent out sample kits to 40 waterworks
- Selecting replacements as appropriate

Sampling Program Status

	Number of Waterworks			
	Kits Sent	Not Responded	Declined/ Withdrew	Samples Received by Lab
Large Surface	17	0	0	14
Ground Water	5	5	1	2
Raw Water Surface	18	0	4	14
Total	40	5	5	30

Sampling Program

- Replacement Systems:
 - Large systems - Finished Water
 - Selecting systems not already covered by other phases
 - Ground Water near airports and unlined landfills
 - Offered to sample entire list - no new candidates
 - Intakes downstream of potential PFAS sources
 - Selecting systems

Candidate Replacement Systems

PWSID	PWS name	Sample ID
5680200	LYNCHBURG, CITY OF	5680200 EP001 ABERT FINISHED WATER EP001
5680200	LYNCHBURG, CITY OF	5680200 EP002 COLLEGE HILL E EP002
3800805	SUFFOLK, CITY OF	3800805 EP001 FINISHED WATER TAP EP001
2003725	SOUTH RIVANNA WTP	2003725 EP001 FINISHED WATER TAP EP001
2003525	NORTH RIVANNA WTP	2003525 EP001 FINISHED WATER TAP EP001
2003600	OBSERVATORY WTP	2003600 EP001 FINISHED WATER EP001
2660345	HARRISONBURG, CITY OF	2660345 EP001 ENTRY POINT TAP EP001
1191883	WASHINGTON COUNTY SERVICE AUTHORITY	1191883 EP001 LAB SINK EP001
2069250	FREDERICK WATER	2069250 SS001 JAMES DIEHL FIN TAP EP001
2069250	FREDERICK WATER	2069250 SS024 J ANDERSON FIN TA EP002
1197435	NEW RIVER REGIONAL WATER AUTHORITY	1197435 IN001 RAW WATER TAP RW001
5117707	ROANOKE RIVER SERVICE AUTHORITY	5117707 IN001 RAW PUMP HOUSE RW001
1121643	RADFORD ARMY AMMUNITION PLANT	1121643 IN001 NEW RIVER IN001
1195700	ST PAUL_ TOWN OF	1195700 IN001 RAW WATER SAMPLE RW001

Quality Assurance Project Plan

- EPA conditionally approved the QAPP on 4/12/21 until 5/12/21
- VDH corrected the requested items and resubmitted on 4/21/21
- EPA noticed a that VDH is using the DoD method for nonpotable water
- EPA provided a list of data needs for their review of this method
- VDH requested data from the laboratory
- Laboratory provided the data to VDH
- EPA approved the QAPP on May 12, 2021, including AEL's PFAS Analysis compliant with Table B-15 Method.
- EPA determined that the data submitted supports the Method Flexibility requirements in Section 1.3 of EPA Method 533.

Laboratory

- Has shipped out sample kits to 40 waterworks
- Provided QA/QC data to support QAPP review and approval
- Tracked and notified ODW of sample kits from 30 waterworks
- Is analyzing Virginia's samples this week as a batch
- Expect sample results late this week