

WRAP – Oil and Gas Working Group Meeting Notes – Tuesday, June 12, 2018

Agenda #1: Welcome/Introduction *(Amanda Brimmer)*

- a. Rotating Notetaker: Ann Mebane
- b. Roll Call: Attendees: Darla Potter, Amanda Brimmer, Mark Jones, Tom Moore, Molly Birnbaum, Tina Suarez-Murias, Dale Wells, Julie Simpson, Melissa Hovey, Jennifer Snyder, Leslie Vaculik, Andrea Stacy, Mike Barna, John Grant, Amnon Bar-Ilan, Frank Forsgren, Gail Tonessen, John Bunyak, Ann Mebane

Agenda #2: Review Agenda *(Amanda Brimmer)*

Agenda #3: Announcements

- a. Overview WRAP Board, Technical Steering Committee, and WRAP Work Group's Co-Chairs Meeting, 4/26 (Tom Moore)

The meeting took a deeper dive into the work plan including implementation of work plan, following the WESTAR and WRAP business meeting on April 24-25. There was continuation of coordination efforts between work groups with reports from each work group co-chairs. RH planning work group gave overview of subcommittees which include emissions inventory & modeling protocol, consultation/coordination, control measures, shared database, and monitoring/data analysis. Big emphasis on modeling platform – getting that in place. There were reports from tribal, oil/gas, fire/smoke, regional technical ops Work Groups. The April 26th [WRAP meeting agenda](#) is posted with presentation materials and an audio/video recording of the meeting at: [April 26 morning](#). There was a request for workload coordination on which Frank Forsgren is taking the lead. He is working on a timeline showing when state air program staff need to engage in various topics. A master calendar for all workgroups, subcommittees and TSC is under development and will be posted. They are backloading of all calls from April 1 going forward. Folks will be able to see materials/when/where.

Coordination call between TSC / Work Group Co-Chairs 1X/month - next call will be June 26. Discussed budget – seem to be in good shape. Consider if States could tap into multi-purpose grants. Pursue foundation grants.

WESTAR/WRAP fall meeting will be in Bismarck, ND – 9/18 – 9/19.

TSC and Work Group Co-Chairs meeting 12/4 – 12/6 in Salt Lake City. Midcourse check in for progress at that meeting and WRAP Work Plan course correction, if necessary.

- b. MJO 2016 Modeling Platform Effort and Potential Synergies (Tom Moore):

Have been meeting monthly. Purpose is to develop 2016 emissions modeling platform. Have a wikipage for all emissions sectors where all work products, call materials, etc. are being tracked. Yesterday, 6/11, reviewed oil/gas point sources. Need states to review these data to make sure they are representative for 2016 as they are extrapolations from 2014 data. Will provide documentation on how various states manage reporting from sources and how that is incorporated into triennial emissions inventory. In July, will look at projections workgroup for 2023 and 2028. Will build on work of Texas, Ramboll Environ, and other states. Want to learn more about nonpoint

O&G EPA tool. In August, will report out on recommended approach to projections and get review. Data version of 2016 emissions by early September – will have first draft of future year projections in September. Projection years correspond to ozone attainment and regional haze milestone years.

c. Other announcements from work group members/advisors

Darla: NPS has agreed to provide additional regional technical support to WRAP/WESTAR through Pat Brewer. She will help with tech/coordination capacity for 2018/2019 work plan with her emphasis on Regional Haze Planning Workgroup and some of the subcommittees.

Darla: Following up on a stakeholder roundtable held earlier this spring, invitations have gone out for a single point-of contact for upcoming meetings. Invitations may have been received by each agency and OGWG members may want to coordinate to make sure agencies have responded. Tom will be POC for WRAP. Please let Tom know of your agency's interest so he can coordinate as needed, if needed. Here is the background information provided:

“Dear Oil and Natural Gas State and Tribal Representative:

The U.S. Environmental Protection Agency (EPA) cordially invites you to participate in recurring oil and natural gas conference calls, starting on Wednesday, June 20, 2018 and thereafter continuing every other month. The conference calls will start at 1 pm Eastern and last 60 minutes. Interested state agencies and tribal government representatives are all welcome to participate in these calls.

Earlier this year, the EPA held an [oil and natural gas stakeholder roundtable](#) in Denver, Colorado. EPA's roundtable was cosponsored by the Environmental Council of State (ECOS) and the Interstate Oil and Gas Compact Commission (IOGCC). A [summary](#) of the oil and natural gas roundtable is available on EPA's website.

The roundtable focused on the following objectives: (1) improving relationships and enhancing communications among stakeholders and (2) identifying and sharing solutions related to challenges that adversely impact efficient and timely compliance. A central theme expressed by state and tribal representatives centered on the concept of meaningful collaboration and engagement. Specifically, states and tribes expressed a desire to further cooperation, irrespective of delegation or primacy.

The bimonthly conference calls will focus on issues related to responsible oil and natural gas exploration and development. While we will look to our state and tribal partners to help set the agenda of these conference calls, general themes for such calls may include: emerging/cross-cutting issues or technologies, sharing of regulatory/policy best practices, highlighting upcoming regulatory/policy activities, general scientific research/data needs, etc. It is our hope that such conference calls will allow us to continue to build and improve relationships while finding meaningful solutions to various challenges.

Jim Kenney, EPA's Senior Policy Advisor for Unconventional Oil and Natural Gas, will chair the conference calls and manage the associated logistics. If you are interested in participating in the first conference call or in future conference calls, please send Mr.

Kenney an email at kenney.james@epa.gov with a single point of contact within your organization for these conference calls. We ask that your organization's single point of contact then coordinate internal to your organization depending on the respective agenda topic. Please direct any questions regarding these conference calls to Mr. Kenney, who can also be reached at (202) 768-2618.

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Agenda item #4: OGWG Road Map (*John Grant & Amnon Bar-Ilan, Ramboll Environ*) (see presentation linked below agenda on OGWG webpage)

a. Phase II

i. Schedule and Input Areas (June – mid August)

Phase I – completed workplan May 2018

Phase II: June 2018 – Feb 2019: Task 1: 2014 Base year EI – minor updates, compilation, develop surveys for additional mods/improvements to the inventory.

Task 1: June-July – predraft inventory compilation – filling in gaps where needed

Jun – Jul: 2014 O&G activity compilation

Jul – Nov: Survey

Literature review – need OGWG review/comment on powerpoint

Draft Survey – need review/comment on draft survey, need to fill out of survey, then need review/comment on survey results memo

Task 2: Aug – Sep – look at historical activity trends – will need WRAP review of trends charts

Aug 2018 – Apr 2019: Task: Forecast Year emissions Inventory (OTB & OTW controls) – develop forecast methodology, develop ways to characterize effects of controls, develop final forecast years' emission inventories

Apr 2019 – Nov 2019: Task 3: forecast Year EI (Additional controls) – taking EI and developing additional controls, reviewing oil/gas control programs and providing guidance to those setting up/improving programs

Apr 2019 – Sep 2019: Task 4: O&G Programs and emission management

OGWG Project Management Team providing contract coordination will orchestrate survey responses. Next OGWG conference call will be mid-August.

Julie: TSC co-chair – she'll provide the list of tribal contacts from the Tribal Data WG who may be able to help inform the effort.

Tom: he'll chat with Julie and other workgroup folks to identify tribal associations of oil/gas producing tribes that could be helpful conduits in working through this

b. Next project management team call (Darla Potter)

Darla: some updates come back to whole OGWG team, but some only go to project mgt team (meetings are approx. monthly), so if you're interested in more detail, consider joining the project mgt team. Next call will be 7/11 at 10 MT. Current project management team includes Dale Wells, Whitney Oswald, Darla Potter, Melissa Hovey, Mark Jones, and Amanda Brimmer.

Tina: when baseyear modeling is done (this summer?) when will updated oil/gas EI info be included – will it be in time for regional haze planning needs?

Tom: there will be multiple versions of the EI, it'll be updated for modeling runs as information gets updated. Modeling and control evaluation work is supported by Phase 2 work which will go well into next year.

Agenda item #5: Drill Rig 1 hour NO2 Impacts Study (*John Bunyak*) (see presentation linked below agenda on OGWG webpage)

Contracting to WESTAR to manage drill rig project.

Had been concerns that AERMOD overpredicts impacts at fenceline. AK study funded by Conoco Philips. CO study – funded by American petroleum institute and BLM. Access to site by Anadarko. Didn't get full 30 days' data at one site, but was moved to new site nearby to get full 30 days' monitoring

Dramatic under-prediction by modeling results of monitored data. May be also because of transient sources such as trucks, mobile heaters, and other equipment.

Colorado results didn't seem to be as affected by transient sources as AK did. Results will be in AWMA: 2 papers – one describing the database development, one discussing model sensitivity and performance under different chemistry schemes

Darla: WRAP website for more details: <https://www.wrapair2.org/DrillRig.aspx>. Project began in 2014. Workgroups have another page with raw data etc. If anyone wants to see raw data, contact John Bunyak to obtain access to workgroup page.

Agenda item #6: Regional Haze Planning work Group Subcommittees (*RHPWG Co-Chairs Jay Baker (UT-DAQ) & Tina Suarez-Murias (CARB)*)

Tina Suarez-Murias: regional haze is in full swing. Deadline is 2021. Last 6 months is needed for public review and formal FLM review. So, everything has to be done by beginning of 2020 to give states time to write their plans. Need Reasonable Progress Goals in first ¼ of 2020.

Modeling for those have to be done by last ¼ of 2019. Initial modeling has begun. Decisions on interpretation of monitoring data, emissions inventory and forecast methods are being discussed now. Some activities can run concurrently, but others must be done sequentially.

States need emissions for initial modeling and to be able to see emissions and monitoring from other states as states consider other states' data. Need that shared database (TSS) – with most impaired days as well as best/worst days. Shared database group and monitoring analysis group are working hard now on interface and presentation. Consultation & coordination group is

working. Control measures group is looking at what additional controls may be needed for RH. What are other OTB, OTW that may help (maybe for other pollutants)? Lots of parts working together in concert, and states have to meet regulatory 2020 deadline. Each state has to decide goals for 2028 for each Class I area as it is not like NAAQS where the goal is set. Tina is very interested in NO2 study. RH workgroup call, minutes, notes, agenda are posted on WRAP website. Thursday there were two group calls focusing on the shared database and extreme episodic events: wildfire, dust storms, eruptions that are a factor in western states – what is a threshold to determine when these are impacting visibility and what are impaired dates. RH workgroup is first Tuesday of even months – Aug. 7 is first call of working group as a whole.

Agenda item #7: Next Steps & Planning for Next Calls (*Mark Jones*)

- a. Next call Tuesday, August 14, 2018 (10 AK, 11 PT, 12 MT, 2 ET) – 90 minute call - send Darla, Amanda, Mark and requests, suggestions for agenda
- b. Notetaker 8/14: Debbie Miller, NPS
- c. Website Posting OGWG materials: www.wrapair2.org/OGWG.aspx (under Regional Haze tab <https://www.wrapair2.org/reghaze.aspx>)

Action Item: Let Darla know if you want to be in the Project Management Team for contractor coordination with Ramboll Environ.