

**WRAP – Oil and Gas Work Group  
Call Agenda & Notes**

Tuesday, December 10, 2019 (90 minutes)  
10:00 am (AK), 11:00 am (PT), Noon (MT), 2:00 pm (ET)

**1. Welcome/Introductions** (*Mark Jones*)

- a. Rotating Call Note Taker – Amanda Brimmer
- b. Roll Call

Molly Birnbaum – AK	Darla Potter – WY	Melissa Hovey - BLM
Curt Taipale – CO	Sheila Vance – UT	Ryan Templeton – TSC/AZ
Dale Wells – CO	Amanda Brimmer - RAQC	Tom Richardson – OK
Kira Shonkwiler – CO	Ann Mebane - FS	John Grant – Ramboll
David Stroh – ND	Andrea Stacy – NPS	Amnon Bar-Ilan – Ramboll
Angela Seligman – ND	Debbie Miller – NPS	Rajashi Parikh - Ramboll
Rhannon Thornton - ND	Brian Davis – NPS	Mary Uhl – WESTAR/WRAP
Dave Aguirre – MT	Gail Tonnesen – EPA R8	Tom Moore – WRAP
Mark Jones – NM	Sharay Dixon – BLM	Charlie Schlinger – EN3

**2. Review Agenda** (*Mark Jones*)

Mark reviewed agenda

**3. Announcements**

- a. Other announcements from work group members / advisors

None!

**4. MJO 2016 Platform Collaborative Effort for Oil & Gas**

*(Co-Chairs - Jeff Vukovich & Tom Richardson)*

Tom Richardson presented:

S1: Overview status update; wiki page – good info, all should visit. Version 1 completed. Working through National Oil and Gas Emissions Committee for future work on improving OG Emissions Inventory.

S2: Calls held March 2018 through November 2019; over 30 collaborators from 15 states, many from WRAP, local/regional, EPA, & non-fed partners. Focusing on 2023 & 2028 emissions inventories.

S3: 2016 Base year. Used submissions for all AERR Type A and Type B where available. Some states (OK and other intermountain west states) provided alternative approaches. Used 4-year average (2011-17).

S4: Using AEO2019 reference case for version 1 for point and non-point production. For nonpoint exploration used 4-year avg.

S5: 2014 showed a drop in crude oil and prices, but has since come back up. Including 2014 data may be overly conservative.

S6: State production data along with 2016 emission from v1. Oil and NG. QA graphic helps some states that may be concerned with missing sources.

S7: Non-point NOx emissions. See areas of extensive O&G.

S9: Crude oil and NG production growth factors – big in Permian, southwest NM, and other areas of projected future growth. May change based on macro-economics and may want to change in a later version.

S10: Shows difference (% change) between baseline 2016 and future 2028. Trend is expected to continue to follow where we are seeing additional exploration.

S11: WRAP states have worked really hard on oil and gas emissions inventory for version 1.1. Still on-going efforts to improve inventory. This work should be the gold standard/default. Working on comparisons of modeling platforms. Currently work on OG committee to look at capture efficiency and embraced a census default approach. And looking at missing sources; top down v bottom up. Should keep eye on exploration activity. 2014 is starting to look like it does not reflect current trends. Especially concerned with the decline curves in first year of production. To keep production constant, going to need to continue to drill.

S12/13: links to resources – send any comments to Tom Richardson ([Tom.Richardson@deg.ok.gov](mailto:Tom.Richardson@deg.ok.gov)) or Jeff Vukovich ([Vukovich.Jeffrey@epa.gov](mailto:Vukovich.Jeffrey@epa.gov)).

S14: work finished for now. Future work is being done through the National Oil and Gas Emissions Committee (meets 2<sup>nd</sup> Thursday of the month – 2:00p Eastern time – email Michael Ege ([michael.ege@tceq.texas.gov](mailto:michael.ege@tceq.texas.gov)) to get on list.)

Q: On slide 11, regarding future platform, any idea when anti. Timeframe is for that?

A: Not sure, but think it's pretty close and most all concerns have been resolved or are close to being resolved.

Q: On slide 10, are these plots from Lake Michigan Air Directors Consortium (LADCO) viewer?

A: Not sure. But I would like to see if I can replicate using the LADCO view.

Q: On slide 10, I'm interested if (see increases in some counties); what does gray mean? Not listed in scale.

A: Good question. Have to ask Jeff. May just be reported 0's.

Q/C: – Maybe we can work on these maps between v1 and v1.1

**5. OGWG Road Map Phase II (John Grant & Amnon Bar-Ilan – Ramboll Environ)**

- a. Task 2 - Forecast Scenarios 2 & 3 (OTB & OTW controls)
- b. Task 3 - Forecast Scenarios (Additional Reasonable controls)

- c. Task 4 - Agency Program Review
  - i. Agency Outreach (*Darla Potter*)
- d. Status, Schedule, & Looking Ahead

John Grant presented:

S3: Baseline EI is complete! Presented same slide at previous meeting. If like to see final products, linked and available on [OGWG website](#).

S4: Go over future on the books (OTB) and on the way (OTW) Emissions Inventories. Also posted on OGWG webpage. Continuation of historical trends. Will be used in RH modeling and also integrated into the EPA new modeling platform.

S5: Next part of work is the emissions inventory to be developed for additional future scenarios. (scenario 2 and 3).

- Low scenario will be estimating reduced legacy well activity (vertical wells retired faster than in the medium scenario).
- High scenario will be estimating increased activity from horizontal wells. Legacy kept unchanged from medium scenario.

Draft memo and spreadsheets in mid-Dec. No additional controls analysis.

S6: additional reasonable controls – documenting methodology in a memo explaining how emissions controls can be estimated by agencies on future year emissions inventory. Goal to provide agencies with a template to determine emissions control levels including 4-statutory factors and emissions efficiencies which are helpful for this analysis. Did provide an outline to the project management team (PMT) which provided input to Ramboll on Nov. call. Ramboll will finalize memo in Dec. and will request input in Dec. and Jan.

S7: Summary of O&G reg. emissions controls programs.

Handed over to Darla (OGWG co-chair): Many of you have received emails from us on requesting input. We discussed this task with Ramboll and PMT. Approach utilized is the one determined by the PMT to be most affected. On Nov. 18 emailed states, local, tribal, & BLM members and advisors. Doing in the manner because regulatory agencies know know their program best. While doing direct outreach to members and advisors, to provided updated narratives and spreadsheets. PMT also discussed, for the state agencies, not only reach out to OG members, but also reach out to air directors/administrators of each of the respective states. Mary Uhl sent out email to WESTAR council letting theme know about it and to coordinate with state agencies to participate. Reminder email sent today. Kudos to the state of ND for already submitting. Thank you!!! Beyond the aspect of request for input is we don't believe there is a one size fits all format to narrative. It is up to each agency to determine what format best describes your agency related to oil and gas. Please feel free as you work through this process,

if you find yourself struggling, take a bit of editorial license to make sure it is truly how you want your agency's OG program represented.

Handed back over to John (Ramboll): once we receive input from agencies, will collated into single doc and provided as a memo document.

Darla will re-send out the memo and spreadsheet today.

## **6. Tribal Data Work Group Emissions Inventories Evaluation- Tribal Oil & Gas (Tom Moore)**

Tom Moore presented:

Wanted to have a window for the OGWG to review the report and encourage workgroup members and advisors to provide feedback. There are a few specific pieces of information for MT county and San Juan county, NM and information about the tribal reservations to better understand what Ramboll's work shows. Would appreciate comments from the OGWG. Please send comments to Tom Moore ([tmoores@westar.org](mailto:tmoores@westar.org)) before the end of January and Tom will route to Charlie Schlinger (EN3).

Darla will send out the report to the OGWG for review by Jan. 31.

## **7. Next Steps & Planning for Next Calls (Mark Jones)**

- a. Next Call February 11, 2020  
10:00 am (AK), 11:00 am (PT), Noon (MT), 2:00 pm (ET) – 90 minutes  
Volunteer Call Note Taker – Darla Potter
- b. Website Posting OGWG Materials – [www.wrapair2.org/OGWG.aspx](http://www.wrapair2.org/OGWG.aspx)

January will be busy. Get ready.

### **Deadlines for OGWG Review:**

- Memo narrative and updated spreadsheet – comments by Dec. 13<sup>th</sup>
- Tribal WG emissions inventory - comments by Jan. 31<sup>st</sup>