

August 2, 2016

## MEMORANDUM

To: Tom Moore, WESTAR  
 From: John Grant and Amnon Bar-Ilan  
 Subject: Data Needs for the National O&G Emission Inventory Review

---

Under contract to the Western States Air Resources Council (WESTAR), Ramboll Environ is performing an analysis of the national upstream and midstream oil and gas (O&G) emission inventory. We will review the data available in the national inventory, its representativeness and completeness. We will also perform detailed basin-level analyses to provide insight into O&G inventory inputs and emissions for chosen basins. We will make prioritized recommendations of which input data sources could be improved to enhance inventory accuracy.

In order to begin this work, Ramboll Environ needs National Emission Inventory (NEI) 2014 emissions and supporting data:

1. Complete **NEI 2014 (v1)** emissions inventory. We understand that public release is not expected until the late-August to mid-September timeframe.
2. **O&G Tool** used to estimate NEI 2014 (v1) nonpoint source O&G emissions not provided by state, local, or tribal agencies, including the complete ACCESS database tool and documentation. We understand that the O&G Tool and documentation may be finalized prior to release of the NEI 2014 (v1) emission inventory.
3. **O&G point source emissions** by county, state, NAICS, SCC, and location (i.e. latitude/longitude). We understand that NEI 2014 (v1) point source emissions may be finalized well in advance of the release of the NEI 2014 (v1) emission inventory.

The provision of data for items (2) and (3) above to Ramboll Environ by the Environmental Protection Agency (EPA), in advance of the public release of the NEI 2014 (v1), would allow us to expedite this work and enhance the usefulness of our deliverables to project stakeholders.

In the case that point source emissions data are able to be provided in advance of the public release of NEI 2014 (v1), we would like the data to be provided for the following North American Industry Classification System (NAICS) codes in order to capture emissions from the entire upstream and midstream O&G sector:

- 2111, 21111, 211111 Oil and Natural Gas Extraction
- 211112 Natural Gas Liquid Extraction
- 213111 Drilling Oil and Gas Wells
- 213112 Support Activities for Oil and Gas Operations
- 4861, 48611, 486110 Pipeline Transportation of Crude Oil (not exclusive to midstream oil and gas sources)
- 4862, 48621, 486210 Pipeline Transportation of Natural Gas