



WESTAR QUARTERLY REPORT

Reporting Period: 2nd Quarter 2015

Report Date: July 28, 2015

EPA Grant No. XA-00T68001

EPA Grant No. XA-00T82602

NPS Agreement No. P14AC00099

Task 2: P14AC01122-TA

BLM/JFSP Agreement No. L14AC00008

BLM Agreement No. L14AC00077

Regardless of funding source, all of the projects and activities conducted by WESTAR are consistent with and intended to achieve the purposes of the organization spelled out in Article 2 of WESTAR's Articles of Association, including promoting the exchange of information related to air quality management, developing procedures to meet air quality objectives and to protect environmental resources, to establish workgroups to investigate specific topics, and to develop recommendations for the consideration of the membership. This report summarizes activities and outcomes for this reporting period.

Reporting Organization:

Name: Western State Air Resources (WESTAR)
DUNS#: 1460040020000
Address: 1218 3rd Ave., Suite 1518
Seattle, WA 98101
Telephone: (206) 254-9142

Contents

- 1) [EPA Core Grant 2011-13 \(XA-00T68001\)](#)
- 2) [EPA Core Grant 2014-16 \(XA-00T68001\)](#)
- 3) [NPS Cooperative Agreement \(P14AC00099\)](#)
[Task 2: P14AC01122-TA](#)
- 4) [BLM/JFSP Cooperative Agreement \(L14AC00008\)](#)
- 5) [BLM Air Quality Modeling Western States Project \(L14AC00077\)](#)
[Drill Rig Monitoring Study](#)
[New Mexico Oil and Gas Emission Inventory](#)
- 6) [Other Significant WESTAR Activities](#)
- 7) [Consolidated Expense Summary](#)

1. EPA CORE GRANT 2011-13

Note: On September 26, 2014 EPA granted a no-cost extension to amend the deadline to complete this grant to December 31, 2015. This extension was specifically for the purpose of “spending down” balances in state travel accounts. Accordingly, the only activities conducted under this grant beginning October 1, 2014 will be state travel expenditures.

a. Budget Summary and Status

The following tables summarize the status of WESTAR’s Core Grant budget, comparing cumulative grant awards since the inception of the current grant (September 1, 2011) through the end of the most recent quarter. While authority to spend against the new grant began on September 1, 2011, WESTAR continued to spend down the prior grant through November 2011. Thus expenditures for the first two months of the project period were paid out of the prior grant.

EPA Core Grant 2011-13 Cumulative Grant Awards by Project through 6/30/2015

Project Title	Total Anticipated Project Period Cost	Total Awards Project Period to Date as of 6/30/2015	Percentage
Operations	840,000	830,312	99%
Training	1,102,500	1,102,500	100%
Regional Tech Support	0	147,208	
State Travel Support	410,961	348,627	85%
Totals	2,353,461	2,428,647	103%

EPA Core Grant 2011-13 Expenses by Object Class through 6/30/2015

Object Class	Budget	This Quarter	Cumulative Expenses	Percentage
1. Personnel	644,623	0	651,517	101%
2. Fringe Benefits	172,051	0	155,844	91%
3. Travel	740,189	42,141	566,128	76%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	114,037	0	113,622	100%
7. Construction	0	0	0	
8. Other	351,727	0	361,871	103%
9. Indirect Expenses	406,020	0	446,455	110%
Totals	2,428,647	42,141	2,295,435	95%

2. EPA CORE GRANT 2014-16

Note: Work on activities and spending against this grant began October 2014.

a. Activity Summary: Operations Project

The purpose of the Operations project is to develop, implement, and support the policy and technical activities at WESTAR that benefit member states. Funding for this project comes entirely from member state contributions. In addition, personnel from member states and federal land management agencies contribute their time and expertise to many of the tasks performed under this project.

1) Status of work plan activities – Operations Project

<i>Expected Result for Project Period</i>	<i>Results/Outcomes</i>	
	<i>2015 Q2</i>	<i>Project Period Total</i>
27 Air director conference calls, documented with minutes posted on WESTAR’s website	2	8
6 Business meetings, documented with minutes and presentations posted on WESTAR’s website	1	1
120 Committee and ad hoc workgroup conference calls	15	49
12 Trips by committee chairs to brief air directors on committee activities	3	3
3 Specialty conference on a high priority topic	0	0
3 Meetings held to address emerging topics	0	0
9 Trips by committee representatives to attend national meetings and report back to WESTAR membership	0	4

2) Other Activities this Quarter – Operations Project

- Following its meeting on regional haze with EPA in RTP, NC, the WESTAR Regional Haze Work Group has been meeting regularly by way of conference call to prepare for further discussions with EPA in the third quarter.
- The WESTAR Ozone and Background Work Group has established as its objective to act as a forum to educate interested WESTAR members on the scientific basis and understanding of western ozone background and transport. In the near term, this will be accomplished by hosting conference calls with scientific experts.
- WESTAR participated in a workshop on accelerating the retirement of old wood-burning device and continues to work toward developing a national consensus and implementation strategy for retiring older wood burning devices and substituting cleaner technology.
- WESTAR's Spring 2015 business meeting and WRAP meeting were held in San Francisco, California. The meeting attracted over 60 members. A meeting summary as well as links to all of the presentations has been posted on WESTAR's website at www.westar.org/downloads.html.
- Staff participated in two national meetings: EPA's Clean Air Act Advisory Committee and NACAA's bi-annual membership meeting.
- WESTAR co-hosted (with NESCAUM and NACAA) a state/local meeting to share experiences implementing wood heater buy-back, scrappage, and change-out programs with the long term goal to design and implement a nationally coordinated program.
- WESTAR participated in a meeting with the Office of Management and Budget to provide western state input on EPA's proposed Phase 2 standards for heavy duty vehicles.

b. Activity Summary: Training Project

The purpose of the Training Project is to: (1) deliver high quality training courses/workshops that meet the needs and expectations of state and local air agency staff within the fifteen-state WESTAR region; (2) develop needed, cost-effective, responsive, and western-states-focused training opportunities; and (3) act as the main point of contact for information and educational training opportunities related to air quality training.

1) Status of work plan activities – Training Project

<i>Expected Result for Project Period</i>	<i>Results/Outcomes</i>	
	<i>2015 Q2</i>	<i>Project Period Total</i>
69 Educational opportunities developed and delivered:	8	22
* Basic Air Dispersion Modeling (Anchorage, AK)		
* Data Validation Workshop (Boise, Idaho)		
* Data Validation Workshop (Honolulu, HI)		
* Control of Particulate Matter Emissions (Spokane, WA)		
* Basic Air Dispersion Modeling (Carson City, NV)		
* Advanced Air Dispersion Modeling (Carson City, NV)		
* BACT Determination (Salt Lake City, UT)		
* Air Pollution Field Enforcement (Tucson, AZ)		
1800 Students trained	163	469¹
3450 Student training days	394	1004¹
1 Training course developed/updated	0	0

¹ This is a corrected total. Quarterly and Project Period totals were incorrectly stated in the 2014Q4 and 2015Q1 reports

2) Other Activities this Quarter – Training Project

- WESTAR staff has worked with EPA and other MJOs on the design, development and updating of various APTI training courses including oil and gas, quality assurance, state implementation planning, and continuous emission monitoring.
- WESTAR staff participates on monthly conference calls with the APTI-Learn.net team to identify improvement and enhancement opportunities, and provide recommendations.
- WESTAR’s staff provides leadership for its member agencies in 111(d) efforts by assisting western air quality agencies with their understanding of the impacts of the proposed 111(d) rule and compliance options, and by identifying critical/important topics for face-to-face meetings and conference calls.
- WESTAR staff collaborates with stakeholders outside of the air pollution program such as the Center for New Energy Economy (CNEE), Western Interconnect Energy Board (WIEB), Western Electricity Coordinating Council (WECC), and Regulatory Assistance Project (RAP) to inform, and to enhance air pollution control agency staffs’ understanding of 111(d) issues that are of importance to entities such as Public Utility Commissions (PUC), Environmental Commission Boards, and electrical grid operators who are, or whose constituencies are, effected by 111(d).

- WESTAR staff continues to serve as members of the National Training Strategy Committee. The Committee established goals are to: understand the priority training needs of air quality agency professionals; provide training opportunities that meet the priority needs of air quality agency professionals; utilize course materials that are up-to-date, accurate, complete, and easy to use; conduct all training using recognized subject matter experts and effective teachers; and deliver effective and cost-efficient training through the use of existing, new and emerging technologies where appropriate
- WESTAR staff also serve as members of the Joint Training Committee (AAPCA, NACAA, EPA). The JTC developed a Training Strategy Action Plan which includes efforts in: course update priorities; prioritize and initiate a plan to develop training offerings to fill gaps, based on curriculum project; develop and implement a process to determine the highest priority training needs on an on-going basis; develop and implement a plan for further enhancement and on-going maintenance of APTI-Learn; and re-launch an improved Learning Management System (APTI-Learn).

c. Activity Summary: Regional Technical Support Project

The purpose of the Regional Technical Support project is to provide technical support to member agencies related to analysis of monitoring data, analysis and preparation of emissions inventories, regional modeling analyses, and operation and maintenance of web databases – all for member agencies to use in their air quality management and planning activities.

1) Status of work plan activities – Regional Technical Support Project

<i>Expected Result for Project Period</i>	<u>Results/Outcomes</u>	
	<i>2015 Q2</i>	<i>Project Period Total</i>
15 Regional technical analysis/planning conference calls	4	12
12 Technical Oversight Committee conference calls	3	7
6 Face-to-face WRAP Board meetings	1	1
30 Travel support provided to local agency and tribal WRAP Board members	7	8

2) Other Activities this Quarter – Regional Technical Support Project

- Staff continued the development of the WRAP Regional Technical Center through discussions with state and federal agencies.

- Staff gave invited presentations at the San Joaquin Valley Air Pollution Control District-sponsored Transboundary Ozone Pollution Conference; EPA's 2015 International Emission Inventory Conference, the Four Corners Air Quality Group's Public Science Forum on Methane, EPA's Hemispheric Transport of Air Pollution and WRAP-EPA Western Modeling Workshops, the National Tribal Forum on Air Quality meeting, UT Division of Air Quality Uintah Basin Emission Inventory meeting, and the greater San Juan Basin Oil and Gas Emissions Inventory Improvement meeting – all on western regional technical analyses and results. Links to presentations:
 - San Joaquin Valley AQMD – [Transboundary Ozone Pollution Conference](#) presentation ([PDF](#)) March 31 – April 2, 2015
 - Ozone Transport session presentation ([PDF](#)) – [WESTAR/WRAP Spring Meeting](#) – San Francisco, CA - April 8-10, 2015
 - [EPA Emission Inventory Conference](#) Plenary Session presentation ([PDF](#)) – San Diego, CA - April 13-16, 2015
 - [Bottom-up Emission Inventory plans for the greater San Juan Basin in New Mexico and Colorado](#) – [Four Corners Air Quality Group](#)- Public Science Forum on Methane – Farmington, NM - April 17, 2015
 - Greater San Juan Basin June 23, 2015 meeting - Introduction and Background on WRAP O&G Emissions Inventory Studies – Farmington, NM ([PDF](#))
- Staff implemented speakers, materials, and logistical arrangements for the [2015 WRAP-EPA Western Modeling Workshop](#) in Boulder, CO during the week of May 11, 2015. The workshop was jointly held with the Hemispheric Transport of Air Pollutants working group sponsored by EPA OAR.
- Staff finalized and organized plenary speakers and session/panel speakers in response to EPA OAQPS' staff request for WESTAR/WRAP staff to provide support to the EPA for the April 13-16, 2015 [International Emission Inventory Conference](#). Extensive effort continued up to and during the Conference.
- Staff continued to work with state and federal agencies, including regional EPA offices, to discuss and collect input on regional technical analysis needs in the western U.S.
- Dissemination of reports, data, and summary results were conducted via the [WRAP website](#).
- Updated the WRAP Regional Technical Center and West-wide Jumpstart Air Quality Modeling Study ([WestJumpAQMS](#)) web page with additional materials, documenting the ongoing series of follow-up workshops, including presentation materials.

d. Budget Summary and Status

The following tables summarize the status of WESTAR's Core Grant budget, comparing cumulative grant awards since the inception of the current grant (September 1, 2014) through the end of the most recent quarter. While authority to spend against the new grant began on September 1, 2014, WESTAR continued to spend down the prior grant through September 2014 and will continue to spend down State Travel Support funds through 2015, or until funds from the prior grant are depleted.

**EPA Core Grant 2014-16
Cumulative Grant Awards by Project through 6/30/2015**

Project Title	Total Anticipated Project Period Cost	Total Awards Project Period to Date as of 6/30/2015	Percentage
Operations	840,000	549,868	65%
Training	1,102,500	735,000	67%
WRAP Support	457,452	304,968	67%
State Travel Support	361,548	215,304	60%
Totals	2,761,500	1,805,140	65%

**EPA Core Grant 2014-16
Expenses by Object Class through 6/30/2015**

Object Class	Budget	This Quarter	Cumulative Expenses	Percentage
1. Personnel	657,106	53,876	159,319	24%
2. Fringe Benefits	178,098	12,226	35,616	20%
3. Travel	731,738	32,548	61,684	8%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	105,000	0	0	0%
7. Construction	0	0	0	
8. Other	338,488	86,538	128,444	38%
9. Indirect Expenses	751,070	63,432	183,127	24%
Totals	2,761,500	248,620	568,189	21%

3. NPS COOPERATIVE AGREEMENT

Under this agreement, WESTAR/WRAP has agreed to cooperate with the National Park Service in furthering the understanding of air quality formation, transport and effects in the western U.S., which includes but is not limited to ambient monitoring and data reporting, creation and operation of databases, development of emission inventories, performance of air quality modeling to understand the effects of pollution and to facilitate discussion of possible mitigation, and the development of outreach and education products toward bettering the understanding of Western air quality by the public and stakeholders.

Projects and activities under this Agreement will be individually authorized by separate task agreements, with each project or activity having a separate work plan and budget developed cooperatively between the NPS and WESTAR/WRAP.

TASK 1: 3-State Study Coordination and Data Warehouse (P14AC00133) was completed on 9/30/2014.

TASK 2: Three State Air Quality Study (P14AC01122)

a. Activity Summary

Under this Task Agreement, WESTAR/WRAP provides collaboration and coordination services for states, tribes, local air agencies, and federal agencies across the Western U.S. under the leadership of the 3-State/Federal Leadership Forum (3-State/FLF). The 3-State/FLF is implementing the Western AQ Study with the following objectives:

- Provide storage and access to consistent, sufficient, comparable and high-quality technical data.
- Provide consistent protocols for technical data and its analysis for air quality impacts to be performed by the Three-State Study/FLF partner agencies.
- Initiate and support collaborative work by the federal and state partners on National Environmental Policy Act (NEPA) air quality analyses relative to energy development and for a broad range of air quality planning activities, including emissions, meteorological and air quality modeling.
- Develop technical capacity and improved data sets for the cooperating agencies using standardized reproducible data collection, quality assessment, analysis and storage protocols.
- Identify, document and apply criteria for base year and future year projections.
- Assist NPS and the Intermountain West Data Warehouse – Western Air Quality Study Governing Board in identifying ways and means of ongoing funding to support the data warehouse when operational
- Identify the mechanisms to be used by the technical work groups to report to the Oversight Committee and Governing Board for the Intermountain West Data Warehouse – Western Air Quality Study.

WESTAR/WRAP staff, serving as project coordinator for the Intermountain West Data Warehouse - Western Air Quality Study (IWDW-WAQS) conducted the following activities related to the furtherance of these objectives over the reporting period:

Activities related to study coordination:

- Provided staff support to working groups related to development of IWDW-WAQS ongoing operations protocols and public outreach materials.
- Organized and executed the April 29 and 30th IWDW-WAQS Technical Committee conference call meetings.

Activities related to coordinating the efforts of the NPS, 3-State Study partners, and the Data Warehouse technical contractor team to design, assemble, test, populate, and plan further development of the Warehouse:

- Transfer protocols for modeling data and inputs to external users were updated and file transfers to outside users continued in the 2nd quarter 2015.
- Daily work continued on the construction and implementation of the data, web database, visualization tools, associated metadata, and web pages to access and use the Data Warehouse.

Activities related to organizing and attending meetings, webinars, and calls for the 3-State Study:

- More than a dozen conference calls were held this quarter to manage the work of the technical support contractor team including Colorado State University (CSU)-Cooperative Institute for Research in the Atmosphere (CIRA), the University of North Carolina (UNC), and ENVIRON International Corp.
- A grant was awarded by the NM BLM State Office to WESTAR for work to start in June 2015 for a comprehensive O&G emissions inventory update for the San Juan and Permian Basins. The NM BLM is funding this work separately, aligned with and leveraged against similar work during the same time frame in 2015 under the IWDW-WAQS effort.

Summary of Work Plan Activities

<i>Expected Result for Project Period</i>	<i>Results/Outcomes</i>	
	<i>2015 Q2</i>	<i>Project-to-date</i>
6 Conference calls or meetings with Governing Board or Steering Committee	0	1
5 Face-to-face meetings	0	4
4 Technical milestones requiring special communication effort	3	8

Activities related to ambient monitoring activities in the Utah portion of the Study region:

- Award of funds to Utah DAQ for ambient monitoring was completed.

Activities related to air quality modeling for the Study region:

- Regional modeling study results for the 2011 version A modeling platform were completed and data transfers were started.
- Work on tasks under the Oct. 2014 through June 2015 Scope of Work continued for ENVIRON and UNC. Additional effort was added by the Technical Committee, extending the SoW end date through Fall 2015, but not increasing the cost.
- An IWDW-WAQS working group was formed to steward the ongoing data transfer process, with monthly calls.

An IWDW-WAQS working group on Model Performance Evaluation was formed to document both needed ongoing evaluation activities and standards for selecting contracted modeling support.

b. Budget Summary and Status

**NPS Cooperative Agreement
Task 2 – Three State Air Quality Study # P14AC01122-TA
Expenses by Object Class through 6/30/2015**

Object Class	Budget	This Quarter	Cumulative Expenses	Percentage
1. Personnel	75,493	12,291	39,390	52%
2. Fringe Benefits	16,553	2,187	6,620	40%
3. Travel	2,192	2,374	4,096	187%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	778,186	0	778,186 ¹	100%
7. Construction	0	0	0	
8. Other	3,456	1,194	2,797	81%
9. Indirect Expenses	75,493	14,601	44,782	59%
Totals	951,373	32,648	875,871	92%

¹ WESTAR has drawn the approved contractual amount as an advance. A summary of contract expenses follows.

Project Contractor	Advance Received	Expenses This Period	Cumulative Expenses	Balance
Environ	705,186	188,541	281,115	424,071
St of Utah	73,000	0	73,000	0

4. BLM/JFSP COOPERATIVE AGREEMENT (PMDetail)

Under this cooperative agreement, WESTAR, through WRAP, is charged with delivering innovative and useful technical products in the form of a quantitative assessment of prescribed and other fire types' effect on likely PM standards, both 24-hour and annual average for each of three historic years and 2008 alternate future scenarios. This assessment will rank fire contributions by locations. The planned PM exceedance vulnerability matrix will enable federal land management agencies to evaluate future real-world decisions about prescribed burning effects on air quality.

a. Administrative Status

The budget and work plan for this project was submitted to the Joint Fire Sciences Program (JFSP) and the Idaho State Office of the Bureau of Land Management as the grant award entity in November and December 2013. The grant monies were then awarded in February and March 2014, in two increments. Contracts with the four technical support organizations (Air Sciences,

Inc.; ENVIRON; Colorado State University; and Carnegie-Mellon University) were executed shortly after the award.

b. Activity Summary

In July 2015, an updated summary of the deliverables and schedule to complete the PMDETAIL project was provided by E-Mail to the JFSP and the Idaho BLM Grants Management Office. The schedule to complete the project was revised to a completion date of December 2015 and the deliverables were consolidated and updated as shown below.

Deliverable: Periodic updates to the [WRAPTools PMDETAIL project website](#), including data and analysis results for 2002, 2008, 2011, and future episodes.

Delivery Dates: 2002 results completed June 2014. 2008 modeling results completed December 2014. Updated emission inventories / filter selection / animations for 2008 completed Summer 2015. 2011 and future episodes will be completed in Fall 2015.

Deliverable: Online tools, including regulatory analysis/assessment results with case studies

Delivery Dates: Analysis of 2008 modeling and filter analysis results for case studies completed May 2015. Analysis of 2011 filter analysis results, 2011 filter analysis and modeling for case studies, and completion of online tools will be completed in Fall 2015.

Deliverable: Training will be webinar-style FLM user training for the online PMDETAIL tools

Delivery Dates: December 2015 – proposed date(s) to be identified at August 2015 project team meeting.

Deliverable: Submit Final Report to JFSP and summary of methodology and findings of PMDETAIL to refereed publication

Delivery Dates: December 2015

c. Other activities

- The PMDETAIL Project Team and WESTAR/WRAP staff held 2 conference calls to continue work and manage the schedule and deliverables for the remainder of the project.
- WESTAR/WRAP worked on budget information at JFSP's request, related to award of the REFERS-DMS proposal approved by JFSP in February.

d. Budget Summary and Status

WESTAR “inherited” the funds remaining in the PMDETAIL project originally awarded to WGA. WESTAR’s budget for this project is based on an updated Scope of Work reflecting the

work completed under the WGA award and the work that remains to be completed under the WESTAR award.

**BLM/JFSP Cooperative Agreement
PMDETAIL Project #L14AC00008
Expenses by Object Class through 6/30/2015**

Object Class	Budget	This Quarter	Cumulative Expenses	Percentage
1. Personnel	14,449	2,665	11,498	80%
2. Fringe Benefits	2,041	475	1,876	92%
3. Travel	1,900	377	3,564	188%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	400,039	94,757	260,340	65%
7. Construction	0	0	0	
8. Other	7,455	92	1,500	20%
9. Indirect Expenses	15,211	3,214	13,259	87%
Totals	441,095	101,580	292,037	66%

5. BLM AIR QUALITY MODELING WESTERN STATES PROJECT

Drill Rig NO2 Monitoring Study

WESTAR received initial funding from the American Petroleum Institute (API) in late 2013 to organize a workgroup and develop a work plan and schedule to execute a Study to collect ambient measurements adjacent to drilling rigs to evaluate actual 1-hour NO₂ impacts from drilling operations. In addition, sufficient data would be collected regarding drilling operations that could be used to verify NO₂ air quality models. The Study will focus on short term episodes.

In May 2014, WESTAR/WRAP responded to a funding opportunity notice from the Bureau of Land Management (BLM) for this Study. A funding proposal was prepared and submitted by WESTAR/WRAP and was then awarded by the BLM as Task 1 under the BLM-WESTAR Cooperative Agreement. The BLM funding is allocated for travel and communications for WESTAR/WRAP staff to support the Study. The BLM funding is also allocated to pay the salary of a 50% full-time equivalent WESTAR contract employee. In August 2014, API transferred funding resources to WESTAR for the bulk of the Colorado field sampling contract. In December 2014, BLM provided additional grant funding to cover the remainder of the Colorado field sampling expenses, WESTAR/WRAP staff support, and a separate data formatting and analysis contracted effort.

a. Activity Summary

Activities this quarter included:

- The Study Management Team and WESTAR/WRAP staff spent a significant amount of time evaluating data reported by the field sampling contractor (URS/AECOM).
- The Study Management Team and WESTAR/WRAP staff has received the data and field study reports from the parallel field sampling study on the Alaska North Slope; the field work was done by Alaska North Slope Oil & Gas operators.
- The WESTAR/WRAP contract employee managed the delivery and evaluation of the Alaska and Colorado field sampling data and reports, and coordinated overall Study activities.
- Funds from the BLM additional grant for the Study from December were awarded for a short-term, limited scope effort with AMEC Foster Wheeler to format and quality assure the data collected in the field, for use in future Model Evaluation activities.
 - This contract bridged a gap in EPA funding for the services of their level-of-effort contractor (AMEC Foster Wheeler) for data processing activities during April-June 2015; data from the Colorado and Alaska field sampling efforts were transferred to the EPA contractor for that purpose and the contractor analysis completed.

The WESTAR/WRAP contract employee has begun organizing a Model Evaluation workgroup and an in-person meeting planned for August 2015 to analyze the field studies' data from Alaska and Colorado.

[Drill Rig 1-hour NO₂ Collaborative Monitoring Study](#) webpage

After discussion with the Study Management Team, adding Field Study data and reports to the Study webpage was delayed until the Model Evaluation workgroup had processed those data and made decisions with the Study Management Team about the work effort by the volunteer workgroup. There will be updates and additions to the webpage in the third quarter of 2015.

b. Budget Summary and Status

The BLM Task 1 funding and supplemental funding received in late 2014 enabled Phase 2 of the Study and provides staff support to the entire Study. Remaining Phase 1 funds have been applied to Phases 2 through 4, combined with additional resources that will be needed for these phases. The combination of funding for WESTAR personnel by BLM and the field sampling contract support from API is the combined funding for this project.

**BLM Air Quality Modeling Western States
Including Continuing Work on Drill Rig NO2 Monitoring Study
BLM Cooperative Agreement # L14AC00077
Expenses by Object Class through 6/30/2015**

Object Class	Budget	This Quarter	Cumulative Expenses	Percentage
1. Personnel	16,800	3,117	18,099	108%
2. Fringe Benefits	6,222	560	2,886	46%
3. Travel	8,426	0	1,829	22%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	188,244	26,176	148,497	79%
7. Construction	0	0	0	
8. Other	1,463	79	4,945	338%
9. Indirect Expenses	18,845	4,669	21,355	113%
Totals	240,000	34,601	197,611	82%

Oil and Gas Emissions Inventory Updates for the San Juan and Permian Basins

The BLM New Mexico State Office (NMSO) and the State of New Mexico Environmental Department (NMED) Air Quality Bureau need up-to-date and accurate oil and gas emission inventories in the near future to address the potential air quality and AQRV impacts associated with oil and gas development in the region. They need a comprehensive O&G emissions inventory that can be used for air quality modeling and planning. The objective of this project is to develop the input data that will be used to develop a detailed and comprehensive O&G emissions inventory for the 2014 baseline year and a projection 5-7 years in the future using the WRAP Phase III methodology and procedures. This work will allow the BLM to obtain more accurate air quality and AQRV impact assessments due to current and future O&G development activities in New Mexico.

a. Activity Summary

This project will focus on surveys of producers to update and gather data used to calculate emissions of the criteria pollutants (NO_x, CO, VOCs, PM and SO_x) and greenhouse gases (CO₂, CH₄, and N₂O). Ramboll-Environ is working for WESTAR/WRAP to prepare and analyze the surveys. Airstar Consulting is working for Ramboll-Environ as the project survey coordinator and primary industry contact. WRAP's contractors will coordinate participation and data collection from producers in the Basin. The survey data will be confidential and presented only in the aggregate for each basin. In parallel, for each basin, the contractors will work with the air regulatory agencies (New Mexico Environment Department - Air Quality Bureau, Colorado Department of Public Health and Environment - Air Pollution Control Division, and EPA Region 6, 8, and 9), and the tribes in the San Juan Basin (Navajo, Ute Mountain Ute, Southern Ute, and Jicarilla Apache) to verify and update emissions for permitted O&G point sources in the 2014 base year.

Producers will provide detailed area source data via surveys to supplement these point source data. Reviewing permitted point source data and applying the area source survey results will provide inputs that will allow the estimation of a comprehensive inventory of air pollutants covering most major O&G activities in the basin by mineral estate ownership: 1) federal, 2) trust (Indian allotted and tribal) 3) state, and 4) private (fee). The federal mineral estate will also include two (2) subparts, one associated with the decision space for National Forest System Lands, and the other with the decision space for lands under the jurisdiction of the BLM.

Work products consisting of a technical memoranda and spreadsheets for each basin will reside on the WRAP website.

Project Schedule for Greater San Juan O&G Emissions Inventory Project

- Begin Survey preparation, Ranked List of Companies, Query for State/Federal Agencies, Access IHS database at BLM, identify Contacts from Ranked List of Operators from Production Statistics, Contacts from Agencies
 ○ Schedule and Hold Outreach Calls/Meetings June 2015
- Distribute Survey Instruments and Agency Queries July 2015
 ○ Hold additional outreach calls
- Agencies & Companies Complete/Submit Query Response August 2015
- Complete Draft and Final Memoranda/Spreadsheets Fall 2015

b. Other significant project activities

- A meeting with tribes in the greater San Juan Basin area was held on June 22, 2015 in Farmington, NM, to orient the tribes to the project and discuss data needs.
- A meeting with O&G operators in the greater San Juan Basin, as well as representatives from the NM BLM, Colorado and New Mexico air agencies, the Navajo Nation, Ute Mountain Ute, and Southern Ute tribes, and environmental advocacy organizations was held on June 23, 2015 in Farmington, NM, to discuss available data and review the goals of the project.

The project website was established at: <http://www.wrapair2.org/SanJuanPermian.aspx>.

c. Budget Summary and Status

**BLM Oil and Gas Emissions Inventory Updates
for the San Juan and Permian Basins
BLM Cooperative Agreement # L14AC00077
Expenses by Object Class through 6/30/2015**

Object Class	Budget	This Quarter	Cumulative Expenses	Percentage
1. Personnel	6,190	1,712	1,712	28%
2. Fringe Benefits	1,780	299	299	17%
3. Travel	1,497	0	0	0%
4. Equipment		0	0	
5. Supplies		0	0	
6. Contractual	92,950	1,624	1,624	2%
7. Construction		0	0	
8. Other		0	0	
9. Indirect Expenses	7,583	1,046	1,046	14%
Totals	110,000	4,681	4,681	4%

6. OTHER SIGNIFICANT ACTIVITIES

- Dan Johnson announced his retirement by the end of the year. An Executive Director search team has been established to identify a preferred candidate for the position, for ratification by the membership.

7. CONSOLIDATED EXPENSE SUMMARY

Cumulative Expenses by Object Class and Funding Source through 6/30/2015 All Active Accounts

	EPA	EPA	NPS	BLM/JFSP	BLM	BLM	
Object Class	Core Grant 2011-13	Core Grant 2014-16	Task 2 3-State	PMDETAIL	Air Quality Modeling	NM Oil & Gas EI	Totals
1. Personnel	651,517	159,319	39,390	11,498	18,099	1,712	881,533
2. Fringe	155,844	35,616	6,620	1,876	2,886	299	203,140
3. Travel	566,128	61,684	4,096	3,564	1,829	0	637,301
4. Equipment	0	0	0	0	0	0	0
5. Supplies	0	0	0	0	0	0	0
6. Contractual	113,622	0	778,186 ¹	260,340	148,497	1,624	1,302,269
7. Construction	0	0	0	0	0	0	0
8. Other	361,871	128,444	2,797	1,500	4,945	0	499,557
9. Indirect	446,455	183,127	44,782	13,259	21,355	1,046	710,024
Cumulative Expenses	2,295,435	568,189	875,871	292,037	197,611	4,681	4,233,823
Budget	2,428,647	2,761,500	951,373	441,095	240,000	110,000	6,932,615
Balance Avail	133,212	2,193,311	75,502	149,059	42,389	105,319	2,698,792

¹ Cumulative total of \$354,115 drawn from advance for contractor expenses; advance balance = \$424,071

Current Quarter Expenses by Object Class and Funding Source – All Active Accounts March 31, 2015 – June 30, 2015

	EPA	EPA	NPS	BLM/JFSP	BLM	BLM	
Object Class	Core Grant 2011-2013	Core Grant 2014-2017	Task 2 3-State	PMDETAIL	Air Quality Modeling	NM Oil & Gas EI	Totals
1. Personnel	0	53,876	12,291	2,665	3,117	1,712	73,661
2. Fringe Benefits	0	12,226	2,187	475	560	299	15,747
3. Travel	42,141	32,548	2,374	377	0	0	77,440
4. Equipment	0	0	0	0	0	0	0
5. Supplies	0	0	0	0	0	0	0
6. Contractual	0	0	0 ¹	94,757	26,176	1,624	122,557
7. Construction	0	0	0	0	0	0	0
8. Other	0	86,538	1,194	92	79	0	87,903
9. Indirect	0	63,432	14,601	3,214	4,669	1,046	86,962
Total Expenses	42,141	248,620	32,648	101,580	34,601	4,681	464,270

¹ \$188,541 drawn from advance for contractor expenses during this reporting period