

WESTAR QUARTERLY REPORT

Reporting Period: 4th quarter 2018 Report Date: January 31, 2019 EPA Grants No. XA-99T67301-0 NPS Agreement No. Task 3: P15AC01632 Task 4: P16AC01109 Task 5: P18AC01186 BLM Agreement No. L14AC00077 BLM Agreement No. L16AP00004 API Contract No. 2016-110934

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 States Air Resources (WESTAR)
DUNS#:	1460040020000
Address:	3 Caliente Road #8
	Santa Fe, NM 87508
Telephone:	(505) 954-1160

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1. EPA CORE GRANT 2017-2019

Note: Work on activities and spending against this grant began December 2017.

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 (October 1, 2017) through the end of the most recent quarter.

			Cumulative	
Object Class	Budget	This Quarter	Expenses	Percentage
1. Personnel	837,060	91,402	352,559	42%
2. Fringe Benefits	252,117	24,955	92,308	37%
3. Travel	762,400	51,112	173,676	23%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	1,040,851	77,019	189,372	18%
7. Construction	0	0	0	
8. Other	397,561	49,727	200,970	51%
9. Indirect Expenses	1,138,717	109,261	367,070	32%
Totals	4,428,706	403,475	1,375,955	31%

EPA Core Grant 2017-19 Expenses by Object Class through 12/31/2018

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

	Results/Outcomes		
Expected Result for Project Period	2018 Q4	Project Period Total	
27 Air director conference calls, documented with minutes posted on WESTAR's website	3	10	

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6	Business meetings, documented with minutes and presentations posted on WESTAR's website	0	2
10	5 Committee and ad hoc workgroup conference calls	19	49
12	Trips by committee chairs to brief air directors on committee activities	0	4
3	Specialty conference on a high priority topic	0	0
3	Meetings held to address emerging topics	0	1
9	Trips by committee representatives to attend national meetings and report back to WESTAR membership	0	1

2) Other Activities this Quarter - Operations Project

* WESTAR presented testimony at the hearing on the NPRM for the Residential Wood Heating Device NSPS, requesting additional time to comment and a hearing in the western U.S.

*WESTAR submitted comments to EPA on the following Exceptional Events guidances: Additional Methods, Determinations, and Analysis to Modify Air Quality Data Beyond Exceptional Events; Guidance on the Preparation of Exceptional Events Demonstrations for Stratospheric Ozone Intrusions; and, Guidance on the Preparation of Demonstrations in Support of Requests to Exclude Ambient Air Quality Data Influenced by High Wind Dust Events Under the 2016 Exceptional Events Rule.

*WESTAR initiated a project to convene air quality agencies and land managers to examine the implications for smoke management programs in light of increasing prescribed fires.

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.

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	Result	s/Outcomes
Expected Result for Project Period	2018 Q4	Project Period Total
60 Educational opportunities developed and delivered:	3	13
 * Idaho: Permit Practices & Procedures (NACT) * Arizona: Principles & Practices of Air Polluti * New Mexico: Combustion Evaluation (APTI) 	ion Control (APTI	452)
1800 Students trained	86	349
3450 Student training days	258	1101
1 Training course developed/updated	0	0

1) Status of work plan activities - Training Project

Other Activities this Quarter - Training Project

* WESTAR staff continues to work with state, local and tribal air quality government agencies in the Western United States to identify each agency's most important training needs for calendar year 2019. WESTAR's upcoming year's training schedule is developed based on these needs.

* WESTAR staff participates on bi-monthly conference calls with the APTI-Learn.net Maintenance, Operation and Enhancement Team to identify improvement and enhancement opportunities and provide recommendations to enhance the user's experience with APTI-Learn website.

* WESTAR staff serves as a member on the National Training Strategy Committee. The NTS Committee has established the following goals: to understand the priority training needs of air quality agency professionals; to provide training opportunities that meet the priority needs of air quality agency professionals; to utilize course materials that are up-to-date, accurate, complete, and easy to use; to conduct all training using recognized subject matter experts and effective teachers; and to deliver effective and cost-efficient training through the use of existing, new and emerging technologies where appropriate

* WESTAR staff is an active member on two work groups under the work of the JTC. Work Group #2 (Processes for Developing and Updating Courses) is responsible for updating & developing course content by: 1) reviewing current approaches for

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updating existing course content and identifying potential improvements, 2) recommend approaches for developing new courses, and 3) examining how courses may be better delivered. Work Group #3 (Instructor Recruitment & Evaluation) is responsible for reviewing the current process used for instructor evaluations and recommending improvements, and the review the processes used to hire new instructors and identify new mechanism to consistently find future instructors.

* WESTAR staff is a current member of EPA's ad hoc Access Database team charged with identifying the structure, process and methodology of creating a comprehensive database to be populated with training information such as but not limited to title, course descriptions, course instructor contact information, date of last update, and course materials to be used by state, local and tribal agency staff WESTAR staff is also involved on the Permitting Committee which is assigned the task of taking a comprehensive look at educational opportunities related to the air quality permitting program and examining ways to improve the program.

* WESTAR is involved with the training committees at AAPCA, NACAA, and EPA's Joint Training Committee (JTC). 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).

* WESTAR staff sits on MARAMA's APTI 470 QA for Air Pollution Measurement Systems Technical Review Committee which assists with updating the course.

* WESTAR staff is an active member of EPA's CEMS Workgroup which is charged with updating APTI 474.

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) <u>Status of work plan activities – Regional Technical Support Project</u>

Results/Outcomes

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Expected Result for Project Period	2018 Q4	Project Period Total
75 Workgroup Conference calls	18	80
30 Technical Steering Committee conference calls	3	13
6 Face-to-face WRAP Board meetings	0	2
30 Travel support provided to local agency and tribal WRAP Board members	0	10
3 Technical Steering Committee Face-to- face meetings	1	2
30 WRAP Board calls	2	10

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, now included in the WRAP 2018-19 Workplan.
- 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 <u>WRAP</u>, <u>IWDW-WAQS</u>, <u>TSSv2</u>, and <u>WRAP Fire Tools</u> websites
- The WRAP Technical Steering Committee and 5 Work Groups (Fire & Smoke, Oil & Gas, Regional Technical Operations, Tribal Data, and Regional Haze Planning) under their direction met regularly.
- Significant progress was made implementing the 2018-19 WRAP Workplan, including a Workplan update meeting for the Technical Steering Committee and Co-Charis of WRAP Work Groups and Subcommittees at a meeting December 4-6.

2. 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)

This Task was completed on 9/30/2014.

TASK 2: Three State Air Quality Study (P14AC01122)

This Task was completed on 6/30/2016.

TASK 3: Intermountain West Data Warehouse – Western Air Quality Study (IWDW-WAQS) (P14AC01122)

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 agencies sponsoring the IWDW-WAQS for the federal and state agencies cooperating through the IWDW memorandum of understanding. The IWDW project builds upon and expands the Three-State Data Warehouse supported in Task 2. Tasks 3, 4, and 5 continue seamlessly from the end of Task 2. The IWDW and associated Western Air Quality Study (WAQS) modeling effort have the following shared 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 IWDW-WAQS 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 IWDW–WAQS 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 IWDW–WAQS.

a. <u>Activity Summary</u>

Work during this quarter focused on development of a regional modeling plan with as outlined in the Fall 2018 IWDW-WAQS Cooperator Workplan approved by the Oversight Committee and Governing Board.

Summary of Work Plan Activities

	Results/Outcomes		
Expected Results for Project Period	2018 Q4	Project-to-date	
6 Conference calls or meetings with Governing Board or Oversight Committee	0	30	
5 Face-to-face meetings	0	25	
4 Technical milestones requiring special communication effort	1	29	

b. Budget Summary and Status

NPS Cooperative Agreement Task 3 – Three State Air Quality Study # P15AC01632 Expenses by Object Class through 12/31/2018

			Cumulative	
Object Class	$Budget^1$	This Quarter	Expenses	Percentage
1. Personnel	8,070	0	7,728	96%
2. Fringe Benefits	1,769	0	1,302	74%
3. Travel	4,002	0	1,292	32%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	482,381	49,421	164,497	34%
7. Construction	0	0	0	
8. Other	0	0	55	
9. Indirect Expenses	9,279	10,315	20,134	217%
Totals	505,501	59,736	195,009	39%

¹ WESTAR has drawn the total amount of the agreement as an advance.

TASK 4: Intermountain West Data Warehouse-Western Air Quality Study (IWDW-WAQS) (P16AC011099)

Under this Task Agreement, WESTAR/WRAP serves as the project coordinator for the IWDW-WAQS effort and performs technical tasks through contractors to include:

- Emission inventory development for oil and gas sources and applications of best available data for all other source categories;
- Air quality modeling for base year 2014 including development of model evaluation and model runs for 2014 base year and future years;

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- Support and coordination of IWDW operations and maintenance;
- Assistance in education and outreach to stakeholders and the public.

WESTAR/WRAP staff serve as project coordinator for the IWDW-WAQS, at 0.20 FTE time.

a. Activity Summary

Work continued to draft a statement of work for the new join 2014 base year and future projections modeling platform as a joint project with the WESTAR-WRAP Regional Haze analysis and planning project.

	Results/Outcomes	
Expected Results for Project Period	2018 Q4	Project-to-date
1 Contract for emission inventory development and 2014 / future year modeling	0	2
6 Quarterly support and coordination for IWDW	2	15
1 Outreach assistance	2	18

b. Budget Summary and Status

NPS Cooperative Agreement Task 4 – Three State Air Quality Study # P1601109 Expenses by Object Class through 12/31/2018

			Cumulative	
Object Class	$Budget^1$	This Quarter	Expenses	Percentage
1. Personnel	44,959	7,284	65 <i>,</i> 997	147%
2. Fringe Benefits	12,664	1,862	14,041	111%
3. Travel	4,400	0	45	1%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	117,292	0	100,576	86%
7. Construction	0	0	0	
8. Other	1,000	0	460	46%
9. Indirect Expenses	54,571	7,062	53,767	99%
Totals	234,886	16,208	234,886	100%

¹ WESTAR has drawn \$234,886 of the agreement as an advance.

TASK 5: Intermountain West Data Warehouse-Western Air Quality Study (IWDW-WAQS) P18AC01186

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Under this Task Agreement, WESTAR/WRAP serves as the project coordinator for the Western Air Quality Study and performs technical tasks through contractors to include:

- Emission inventory development for oil and gas sources;
- Air quality modeling for base year 2014 and/or 2016 including preliminary assessment of an approach for establishing boundary conditions;
- Support and coordination of IWDW operations and maintenance;
- Assistance in education and outreach to stakeholders and the public;
- Organization and participation in meetings, webinars and conference calls.

WESTAR/WRAP staff serve as project coordinator for the IWDW-WAQS, at 0.20 FTE time.

a. Activity Summary

Work has not yet begun under this task.

			Cumulative	
Object Class	$Budget^1$	This Quarter	Expenses	Percentage
1. Personnel	62,748	3,106	3,106	5%
2. Fringe Benefits	12,468	844	844	7%
3. Travel	5,000	0	0	0%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	136,229	0	0	0%
7. Construction	0	0	0	
8. Other	0	0	0	
9. Indirect Expenses	89,305	1,630	1,630	2%
Totals	305,750	5,581	5,581	2%

NPS Cooperative Agreement Task 5 – Three State Air Quality Study # P18AC01186 Expenses by Object Class through 12/31/2018

3. BLM AIR QUALITY MODELING WESTERN STATES PROJECT

There are currently 2 activity areas under this project:

- a Drill Rig NO2 Monitoring Study, and 3.1
- an Oil & Gas Emission Inventory Update Study for the Greater San Juan and Permian 3.2 Basins.

3.1 **Drill Rig NO2 Monitoring Study**

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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. In November 2015, API provided additional funding resources for contractor analysis of the Alaska field sampling data. In mid-Sept. 2016, an additional \$60,000 was awarded to be able to complete additional analyses of the field sampling data specifically from the Colorado study sites and to support facilitation of continued evaluation by volunteer technical workgroups of both the Alaska and Colorado field study data.

a. Activity Summary

Activities in the fourth quarter of 2018 include:

- The <u>Drill Rig 1-hour NO₂ Collaborative Monitoring Study</u> project webpage has been updated on a regular basis, as needed.
- Work through contracted support is almost complete for additional technical analysis and project mgmt. activities. This work is to be completed in the second calendar quarter of 2019.
- The contracted support work is in use by EPA-led work groups of BLM, state, and interested parties are preparing peer-reviewed journal articles of the Alaska and Colorado field studies' results.
- Additional project mgmt. activities were executed, including regular communication with the Study Mgmt. Team and routine calls and coordination of the 2 EPA-organized data review teams.
- b. <u>Budget Summary and Status</u>

The BLM initial and supplemental funding received in 2014 enabled the 2014-15 Study work and provides staff support to the entire Study. Funding for WESTAR personnel and field sampling data analysis contract support by BLM and the field sampling and data analysis contract support from API are the combined funding for this project. WESTAR-WRAP are using the funds received in Sept. 2016 to complete the field sampling data analysis phase of the 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 12/31/2018

			Cumulative	
Object Class	Budget	This Quarter	Expenses	Percentage
1. Personnel	16,800	0	22,818	136%
2. Fringe Benefits	6,222	0	3,721	60%
3. Travel	9,832	0	2,205	22%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	246,838	16,680	221,639	90%
7. Construction	0	0	0	
8. Other	1,463	0	5,101	349%
9. Indirect Expenses	18,845	4,506	32,795	174%
Totals	300,000	21,186	288,279	96%

BLM Air Quality Modeling Western States Including Continuing Work on Drill Rig NO2 Monitoring Study American Petroleum Institute (API) Funding Expenses by Object Class through 12/31/2018

		Cumulative			
Object Class	Budget	This Quarter	Expenses	Percentage	
1. Personnel	3,444	0	3,444	100%	
2. Fringe Benefits	469	0	469	100%	
3. Travel	0	0	0		
4. Equipment	0	0	0		
5. Supplies	0	0	0		
6. Contractual	266,759	0	261,549	98%	
7. Construction	0	0	0		
8. Other	0	0	0		
9. Indirect Expenses	4,328	0	4,328	100%	
Totals	275,000	0	269,790	98%	

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4. BLM-NM AIR QUALITY MODELING

Activity Summary

WESTAR and WRAP and the New Mexico Environment Department (NMED) have worked together to develop this proposal to fund ozone modeling and visibility analysis for the Four Corners area. NMED has been working with WESTAR, WRAP, and the BLM for several years on characterizing air quality in the Four Corners region and will partner with WESTAR and WRAP on this study to obtain more recent analyses of ozone and visibility in the region.

Oil and Gas (O&G) development in the inter-mountain western United States has undergone rapid increases over the last decade. The San Juan Basin in New Mexico and Colorado is a major natural gas production basin and has over 20,000 wells; while O&G production in the San Juan Basin has declined in recent years, the future development of the Mancos Shale formation represents a source of potential growth of O&G production in the basin. O&G development releases emissions of oxides of nitrogen (NOx), volatile organic compounds (VOCs), carbon monoxide (CO), sulfur dioxide (SO2), hazardous air pollutants (HAPs) and greenhouse gases (GHG). These emissions can lead to elevated air pollution levels that may threaten National Ambient Air Quality Standards (NAAQS), cause HAPs levels that may cause health effects, and have potential adverse effects on air quality related values (AQRVs), which include visibility and acid deposition. To address these potential air quality and AQRV impacts requires accurate and comprehensive emissions inventory of O&G sources followed by air quality modeling and planning.

In response to these challenges, the affected states, tribes and federal land managers in the region came together and formed the Four Corners Air Quality Task Force to develop control strategies for future air quality impacts from development. In addition to Colorado and New Mexico, other participating agencies include the Navajo Nation Environmental Protection Agency; the Southern Ute Indian Tribe Air Quality Program; the U.S. Environmental Protection Agency (EPA); the U.S. Department of Interior - Bureau of Land Management (BLM) and National Park Service; the U.S. Department of Agriculture - Forest Service (USFS); the U.S. Department of Energy; and the State of Utah. The Task Force included more than 100 members and 150 interested parties. Members included private citizens, representatives from public interest groups, universities, and industry, and federal, state, tribal and local governments. The O&G industry was a major participant in the Task Force with over 50 representatives.

In this Study, the NMED now needs projected emissions modeling and analysis on future year scenarios for ozone and AQRV impacts associated with O&G development in the region. WESTAR and WRAP is leading an effort to develop a new base and projection years' modeling platform for the Western United States, and NMED recommends the use of the WESTAR-WRAP modeling platform for their ozone and AQRV analyses at the time it is ready for those analyses. The platforms developed by WESTAR and WRAP for the IWDW-WAQS cooperating agencies including the 2014 baseline inventory can be used as a starting point to do a future year 2023 modeling analysis for ozone and AQRV for the Four Corners area. 2023 is a significant

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date for air quality planning in the West since it is the first attainment date under the 2015 Ozone standard for all nonattainment areas (to be designated by October 2018) across the country. The objective of this work is to develop several 2023 modeling runs and a 4-factor analysis for AQRVs for that year and for 2028 as an optional task. This work will allow the NMED and other cooperating agencies within the IWDW-WAQS to obtain more accurate air quality and AQRV impact assessments due to current and future O&G development activities in New Mexico and will be an essential resource for NMED's air quality planning efforts.

Now that base and projection year Oil & Gas emissions for the Greater San Juan Basin are complete, WESTAR and WRAP will leverage the next modeling platform from the IWDW-WAQS and utilize contractor support to conduct the 4-factor analyses. Resources for this study in the amount of \$40,000 were awarded in late Sept. 2016. As the work in this leveraged against the next generation of the IWDW-WAQS base and projection years' modeling platform and the contract for that work has not yet been awarded, a more detailed report of the progress in modeling and analysis, and a schedule for this study will be included as part of the WRAP Workplan update scheduled for completion in the first calendar quarter of 2019. The first quarter 2019 WESTAR and WRAP progress report will detail this effort.

•	Apply base case and sensitivity test inventories in	When modeling
	IWDW-WAQS modeling platform	platform is ready

The workplan for this analysis will be completed in the first calendar quarter 2019.

a. Budget Summary and Status

-	e e	e		
Object Class	Budget	This Quarter	Expenses	Percentage
1. Personnel	0	0	0	
2. Fringe Benefits	0	0	0	
3. Travel	0	0	0	
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	40,000	0	0	0%
7. Construction	0	0	0	
8. Other	0	0	0	
9. Indirect Expenses	0	0	0	
Totals	40,000	0	0	0%

BLM-NM Air Quality Modeling - Four Corners BLM Cooperative Agreement # L16AP00004 Expenses by Object Class through 12/31/2018

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5. OTHER SIGNIFICANT ACTIVITIES

WESTAR co-chairs the Federal/State Technical Work Collaboration Group and organizes monthly and quarterly conference calls to share information about EPA and MJO technical work.

WESTAR and state staff from several member agencies are participating in Workgroups to develop the EPA-Multijurisdictional Organization-State Emissions Modeling Platform for calendar year 2016. Information is at: <u>http://views.cira.colostate.edu/wiki/wiki/9169</u>

6. CONSOLIDATED EXPENSE SUMMARY

Cumulative Expenses by Object Class and Funding Source through 12/31/2018 All Active Accounts

An Active Accounts							
	EPA	NPS	NPS	NPS	BLM	BLM	
Object Class	Core Grant 2017-19	Task 3 3-State	Task 4 3-State	Task 5 3- State	Drill Rig AQM	4 Corners AQM	Totals
1. Personnel	352,559	7,728	65,997	3,106	22,818	0	452,208
2. Fringe	92,308	1,302	14,041	844	3,721	0	112,216
3. Travel	173,676	1,292	45	0	2,205	0	177,218
4. Equipment	0	0	0	0	0	0	0
5. Supplies	0	0	0	0	0	0	0
6. Contractual	189,372	164,497	100,576	0	221,639	0	676,084
7. Construction	0	0	0	0	0	0	0
8. Other	200,970	55	460	0	5,101	0	206,587
9. Indirect	367,070	20,134	53,767	1,630	32,795	0	475,396
Cumulative Expenses	1,375,955	195,009	234,886	5,581	288,279	0	2,099,709

¹ Cumulative total of 740,387 drawn from advance for contractor expenses; advance balance = 310,492

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Current Quarter Expenses by Object Class and Funding Source – All Active Accounts

	EPA	NPS	NPS	NPS	BLM	BLM	
Object Class	Core Grant 2017-2019	Task 3 3-State	Task 4 3-State	Task 5 3-State	Drill Rig AQM	4 Corners AQM	Totals
1. Personnel	91,402	0	7,284	3,106	0	0	101,792
2. Fringe Benefits	24,955	0	1,862	844	0	0	27,661
3. Travel	51,112	0	0	0	0	0	51,112
4. Equipment	0	0	0	0	0	0	0
5. Supplies	0	0	0	0	0	0	0
6. Contractual	77,019	49,421	0	0	16,680	0	143,120
7. Construction	0	0	0	0	0	0	0
8. Other	49,727	0	0	0	0	0	49,727
9. Indirect	109,261	10,315	7,062	1,630	4,506	0	132,773
Total Expenses	403,475	59,736	16,208	5,581	21,186	0	506,185