



WESTAR QUARTERLY REPORT

Reporting Period: 1st Quarter 2014
Report Date: April 30, 2014
EPA Grant No. XA-00T68001
EPA Grant No. XA-00T82601
NPS Agreement No. P14AC00133
BLM/JFSP Agreement No. L14AC00008
BLM NO2 Monitoring Project - Contract

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.

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1. EPA CORE GRANT

a. Activity Summary: Operations Project

The purpose of the Operations project is to provide technical, policy, and administrative support to WESTAR members. Funding for this project comes entirely from member state contributions.

1) Status of work plan activities

WESTAR’s previous report summarized CY2013 activities, results and outcomes. Collectively, the 4th quarter reports from CY2011, 2012, and 2013 represent the total results/outcomes of the activities included in WESTAR’s 2011-2013 workplan and budget. WESTAR’s 2014-2016 grant application, workplan and budget are under development and will be submitted after review/approval by the Directors, sometime after June 1, 2014. Pending approval of a new grant workplan, the “Expected Results for CY2014” in the chart below are preliminary and are presented for tracking purposes only.

<i>Expected Result for CY2014</i>	<i>Results/Outcomes</i>	
	<i>2014 Q1</i>	<i>Year-to-date</i>
10 air director conference calls, documented with minutes posted on WESTAR’s website	3	3
2 business meetings, documented with minutes and presentations posted on WESTAR’s website	0	0
24 Committee conference calls	6	6
16 Ad hoc Work Group conference calls	9	9
1 specialty conference on a technical and/or policy topic	0	0
1 meetings held to address priority, emerging topics	0	0
2 trips by committee representatives to attend national meetings and report back to WESTAR membership	0	0

2) Other Significant Activities:

- WESTAR organized an educational forum among its membership to help states review and comment on the proposed Residential Wood Heating NSPS and guide WESTAR comment development on the proposal. This is the culmination of several years of work in which WESTAR has also collaborated with other regional and national air quality organizations advocating for improvements to the NSPS.
- WESTAR organized a work group to consider the effects of a proposed national modeling platform on western states and identify uniquely western inputs that would need to be taken into account to provide accurate and useful information to them.
- Work is nearly complete on a WESTAR sponsored effort among agency planning and technical staff to develop a comprehensive project plan to help states prepare their 2018 Regional Haze SIPs.

b. Activity Summary: Training Project

WESTAR's Training Program addresses the near-future training needs of western air quality agencies by identifying critical needs, and offering training courses and workshops that closely match these needs. To accomplish these tasks and responsibilities, WESTAR Training Manager works closely with WESTAR Committee members, Air Directors, WESTAR's staff, western air agency staff, and reviews written comments/suggestions on course evaluations.

WESTAR's Training Program offers two types of educational opportunities:

- i. State/Local Directed:
 - a. Western state/local air agencies are asked to review agency business objectives for the upcoming year;
 - b. Assist WESTAR's Training Manager in reviewing the objectives, agendas, and topics of numerous training courses to identify the education opportunity that most closely matches agency business objectives;
 - c. Conducted as geographically close to the agency as possible in order to reduce barriers and enhance opportunity for staff cross training; and,
 - d. These State/Local Directed educational opportunities generally utilize a standardized course format;
- ii. Specialty Courses:
 - a. Subject matter for Specialty Courses are generally identified by Air Directors and WESTAR's committees;
 - b. These specialty courses address new/emerging air quality issues requiring extensive course development activities.

1) Status of work plan activities

WESTAR's previous report summarized CY2013 activities, results and outcomes. Collectively, the 4th quarter reports from CY2011, 2012, and 2013 represent the total results/outcomes of the activities included in WESTAR's 2011-2013 workplan and budget. WESTAR's 2014-2016 grant

application, workplan and budget are under development and will be submitted after review/approval by the Directors, sometime after June 1, 2014. Pending approval of a new grant workplan, the “Expected Results for CY2014” in the chart below are preliminary and are presented for tracking purposes only.

<i>Expected Result for CY2014</i>	<u>Results/Outcomes</u>	
	<i>2014 Q1</i>	<i>Year-to-date</i>
25 educational opportunities developed and delivered:	1	1
• March 18-20; Intermediate NSR/PSD; Phoenix, AZ		
500 students trained	39	39
1100 student training days	117	117

Note: WESTAR offered 28 training courses during CY2013, to 815 students, and totaling 1519 student days.

2) Other Activities this Quarter

- WESTAR staff serves as a committee member on EPA’s LMS Maintenance/ Enhancement/Technical Issues workgroup. Hour long conference calls are held every other Tuesday. The goal of the workgroup is to help EPA and its contractor improve the overall experience of EPA’s APTI-Learn.net Learning Management System (LMS) for the end-user by identifying updates, enhancements, and maintenance issues, and identifying workable and resource-wise solutions.
- WESTAR staff participates on the National Training Strategy workgroup. Conference calls are held at least once a month, or more often when needed. The group is comprised of MJOs, NACAA representatives, AAPCA and EPA. The purposes of the group are to review/prioritize long-term higher-level issues, identify potential opportunities and solutions, and identify cooperative working opportunities.
- WESTAR staff, in order to help improve our member agencies understanding of the requirements, timing, and program elements, keeps informed of EPA’s Carbon Pollution Standards for new (111(b)) and existing (111(d)) power plants. Unlike 111(b), for which the impacts on our member agencies are expected to be limited, 111(d) will affect most of WESTAR’s member agencies, and will require extensive resource commitment.
- WESTAR staff actively participates on NACAA’s Joint Training Committee.

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

WESTAR’s previous report summarized CY2013 activities, results and outcomes. Collectively, the 4th quarter reports from CY2011, 2012, and 2013 represent the total results/outcomes of the activities included in WESTAR’s 2011-2013 workplan and budget. WESTAR’s 2014-2016 grant application, workplan and budget are under development and will be submitted after review/approval by the Directors, sometime after June 1, 2014. Pending approval of a new grant workplan, the “Expected Results for CY2014” in the chart below are preliminary and are presented for tracking purposes only.

<i>Expected Result for CY2014</i>	<i>Results/Outcomes</i>	
	<i>2014 Q1</i>	<i>Year-to-date</i>
4 Technical Oversight Committee meeting documented on website	1	1
4 WRAP Board meetings documented on website	0	0
Participation in 4 face to face technical coordination meetings	5	5

2) Other Activities this Quarter

- Staff continued the development of the Western Regional Modeling Framework through discussions with federal agencies.
- Staff gave a presentation at Energy, Utility, and Environment Conference (EUEC) in Phoenix, AZ.
- Development of detailed regional technical comments on the EPA OAQPS 2011 and 2018 modeling platforms
- 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.

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, 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
Cumulative Grant Awards by Project
CY2011-2013**

Project Title	Total Anticipated Project Period Cost	Total Awards Project Period to Date as of 3/31/2014	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
Expenses by Object Class through 3/31/2014**

Object Class	Budget¹	This Quarter	Cumulative	Percentage
1. Personnel	652,436	40,221	566,332	87%
2. Fringe Benefits	151,350	12,205	134,735	89%
3. Travel	762,784	7,605	365,119	48%
4. Equipment	0	-	-	
5. Supplies	0	-	-	
6. Contractual	109,305	-	99,305	91%
7. Construction	0	-	-	
8. Other	338,412	5,311	287,715	85%
9. Indirect Expenses	414,336	47,125	355,467	86%
Totals	2,428,647	112,467	1,808,673	74%

¹ WESTAR has received approval from EPA Region 9 on budget revisions in light of sequestration reductions, proposed revisions to the cost allocation plan, and the expectation of additional awards from the National Park Service and Bureau of Land Management. Percent of total budget figures are based on original work plan budget.

e. Other Significant Activities – EPA Core Grant

- WESTAR staff participated with Western Interstate Energy Board (WIEB) staff on conference calls, webinars, and as a panel member at its annual meeting of western PUC commissioners and staff, utility industry representatives, Federal Energy Regulatory Commission commissioners. The purpose of the relationship is to enhance understanding of the issues surrounding 111(d), and encourage discussion among impacted stakeholders in advance of the release of the proposed regulations. During WESTAR’s Spring Business meeting WIEB staff will participate as speakers to further continue the dialog and increase understanding.

2. EPA NOVATION AGREEMENT

a. Activity Summary

Under this agreement, WESTAR has agreed to be bound by and to perform the grant in accordance with the terms and conditions contained in the predecessor grant with WGA and to carry out the remaining tasks and activities set forth in that grant work plan. Western states and tribes are relying on WESTAR, through WRAP, to assist them in developing Regional Haze SIPs under CFR Sections 51.308 and 51.309, which are the requirements to implement visibility protection for Federal Class I areas under 169A of the Clean Air Act. Commitments include:

Commitment: Periodic progress reports to EPA on the status of objectives

- WESTAR prepares quarterly activity summaries and posts reports on the WESTAR website at www.westar.org/ActivityReports.html.

Commitment: Conference calls and meetings for WRAP members to coordinate on the execution and applications of the studies and projects

- WESTAR/WRAP staff and Technical Steering Committee members compiled a comprehensive cross-section of inputs for regional technical and planning support work to be included in the WRAP 2014-18 Integrated Workplan.
- Staff conducted 10 calls with state and regional EPA staff about specific regional technical efforts for the Regional Haze plans due July 2018.

Commitment: Dissemination of reports, data, and summary results via the WRAPair2.org website

- WRAP hosted a presentation for the National Oil & Gas Emissions Workgroup and WRAP member agencies on the proposed State of Colorado revisions to air quality requirements for Oil & Gas facilities in Colorado.
- Added a section to the West-wide Jumpstart Air Quality Modeling Study (WestJumpAQMS) web page, documenting the ongoing series of follow-up workshops, including presentation materials:
 - EPA Region Tribal Air Programs' Meeting ([PDF](#), 4MB), March 26, 2014
 - [Arizona](#) ([PDF](#) 3MB), February 5, 2014
 - [New Mexico](#) ([PDF](#) 3MB), December 18, 2013
 - [Denver Regional Air Quality Council](#) ([PDF](#) 3MB), November 15, 2013
 - CenSARA / EPA Regions 6 and 7 conference call WestJumpAQMS briefing ([PDF](#) 5MB), October 17, 2013

b. Budget Summary and Status

**EPA Novation Agreement
Expenses by Object Class through 3/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	42,192	14,604	21,679	51%
2. Fringe Benefits	14,514	2,113	2,740	38%
3. Travel	7,230	2,081	2,617	36%
4. Equipment	0	-	-	
5. Supplies	0	-	-	
6. Contractual	0	-	-	
7. Construction	0	-	-	
8. Other	10,372	840	840	8%
9. Indirect Expenses	36,494	16,880	20,573	56%
Totals	110,802	36,518	48,450	44%

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 workplan and budget developed cooperatively between the NPS and WESTAR/WRAP.

a. Activity Summary

TASK 1: 3-State Study Coordination and Data Warehouse (P14AC00133)

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 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 Three-State 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 Steering Committee and Governing Board for the Three-State Study.

WESTAR/WRAP staff, serving as project coordinator for the 3-State Air Quality Study (3SAQS), conducted the following activities related to the furtherance of these objectives over the reporting period:

Activities related to preparing project status reports for the NPS and the 3-State Study partners:

- Provided staff support for late February 3-State Study Steering Committee meeting and early March 3-State Study Governing Board conference call.

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:

- Extensive efforts are being implemented through weekly conference calls and other project management tools, to achieve Summer 2014 completion of version 1 of the 3-State Data Warehouse, to align with the deliverables listed in the 2012-14 3SAQS workplan.
- Regional modeling studies for 2008, 2011, and future projections are underway in this quarter, to be completed in the 2nd quarter 2014, to provide databases for subsequent studies by cooperating agencies, their contractors, and other users – for NEPA and other air quality planning efforts.
- Daily work on the construction and implementation of the data, web database, visualization tools, associated metadata, and web pages to access and use the Data Warehouse was accomplished by the technical contractor team – with review by the 3-State Technical Committee on 2 conference calls during this quarter.

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), ENVIRON International Corp., and Air Resource Specialists, Inc. (ARS).

- A Monitoring Network Assessment workgroup completed their work to assess the monitoring operations in the 3-State Study region and plan the 2014-17 network. Both the Study monitoring sites as well as monitoring sites operated by individual cooperator agencies were assessed. The workgroup’s recommendations were presented to, and adopted by, the Steering Committee and Governing Board. The budget for the 2014-17 network operations was also approved.
- b. Budget Summary and Status

**NPS 3-State Study Coordination and Data Warehouse
Expenses by Object Class through 3/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	35,178	9,553	9,553	27%
2. Fringe Benefits	4,968	1,351	1,351	27%
3. Travel	950	98	98	10%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	0	0	0	
7. Construction	0	0	0	
8. Other	1,734.09	1,127	1,127	65%
9. Indirect Expenses	37,032	12,432	12,432	34%
Totals	79,862.09	24,561	24,561	31%

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 workplan 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 Corp.; Colorado State University; and Carnegie-Mellon University) were developed and are in the process of being awarded. The next increment of work to complete the following activities will take place in the April through June 2014 time period as noted below.

b. Activity Summary

As noted in the section above (Administrative Status), the transition of this project from WGA and WESTAR resulted in a significant disruption of the work being conducted under this project. As a result, WESTAR will be working with the BLM Project Officer to revise the delivery dates listed below.

Deliverable: Updated FETS website, including empirical analysis results for 2002, 2008, and 2011.

Delivery Dates: Jan/Oct 2013 and May 2014

Status and Activities:

- No activity

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

Delivery Dates: October 2014

Status and Activities:

- Analysis of the 2008 case studies for publishing results on the [WRAPTools](#) website is planned for April through June 2014.

Deliverable: Training, including webinar-style training to FLMs on use of online PMDETAIL tools

Delivery Dates: December 2014

Status and Activities:

- No activity

Deliverable: Data and results

Delivery Dates: Summer 2015

Status and Activities:

- Selection of 2008 filter sample days/locations with large modeled Particulate Matter impacts from fire activities.
- 2011 air quality modeling and evaluation.

Deliverable: Submit summary of methodology and findings of PMDETAIL to refereed publication(s)

Delivery Dates: Summer 2015

Status and Activities:

- Website, tools, training, and data results will be added on a quarterly basis in the April 2014 through the September 2015 end point of the project.

c. Budget Summary and Status

WESTAR “inherited” the funds remaining 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
Expenses by Object Class through 3/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	14,449.06	845	845	6%
2. Fringe Benefits	2,040.92	120	120	6%
3. Travel	1,900.00	150	150	8%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	400,039.06	0	0	
7. Construction	0	0	0	
8. Other	7,454.88	58	58	1%
9. Indirect Expenses	15,211.08	1,070	1,070	7%
Totals	441,095.00	2,243	2,243	5%

5. BLM DRILL RIG NO2 MONITORING PROJECT

a. Activity Summary

WESTAR has received funding from the American Petroleum Institute (API) to organize a workgroup and develop a workplan and schedule to execute a project 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 project will focus on short term episodes.

Activities this quarter included:

- A workplan drafting group consisting of state, BLM, EPA, and industry members has been preparing a workplan.
- A series of conference calls to confirm methodologies and study design have been held.
- Review by the larger workgroup is planned for May 2014.
- Efforts by workplan drafting group members to contact Oil & Gas operators to access drill rig sites are underway.

b. Budget Summary and Status

Start-up funding for this project has been provided by API for Phase 1 of the project. This financial support has been provided to fund WRAP staff time to organize the workgroup, and to develop a workplan and schedule to execute the remaining phases of the project. The funding for Phase 1 is not intended to be used completely, instead to be seed money toward the larger project. Remaining Phase 1 funds will be applied to Phases 2 through 4, combined with additional resources that will be needed for these phases.

**BLM Drill Rig NO2 Monitoring Project
Expenses by Object Class through 3/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel		1,416	1,416	
2. Fringe Benefits		185	185	
3. Travel		-	-	
4. Equipment		-	-	
5. Supplies		-	-	
6. Contractual		-	-	
7. Construction		-	-	
8. Other		-	-	
9. Indirect Expenses		1,780	1,780	
Totals	20,000.00	3,382	3,382	17%

c. Other significant activities

- Field study resources for the Alaska North Slope study site sample collection operations have been volunteered by Conoco-Phillips and BP, reducing the costs to Study sponsors.
- Staff is coordinating the drill rig NO2 monitoring project with the [FRAPPE study](#) to establish a study site in the Denver/Front Range area of northern Colorado, with field sampling to occur in the July-August 2014 FRAPPE study timeframe.

6. WGA CONTRACTS

a. Activity Summary

As WRAP's administration transitioned from WGA to WESTAR, several projects were underway and were expected to continue under WESTAR. The purpose of this contract was to provide funding for WRAP staff as the active WGA projects were closed out and WESTAR established new awards to continue the projects. In particular, transitional funding was needed for the NPS 3-state study, the BLM/JFSP PMDETAIL project, and the Montana-Dakotas Oil and Gas project. Funds from this contract were used in this reporting period for work completed in the prior quarter. Specific activities during the reporting period on these projects are summarized by project under the applicable award elsewhere in this report.

b. Budget Summary and Status

**WGA Contracts
Expenses by Object Class through 3/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel		4,370	24,421	
2. Fringe Benefits		512	2,313	
3. Travel		-	-	
4. Equipment		-	-	
5. Supplies		-	-	
6. Contractual		-	-	
7. Construction		-	-	
8. Other		1,124	1,124	
9. Indirect Expenses		4,073	13,869	
Totals	50,888	10,079	41,727	82%

7. OTHER SIGNIFICANT ACTIVITIES

- The transition of grant awards from WGA to WESTAR to continue two active projects (3-state study coordination project funded by NPS and PMDETAIL funded by BLM), coupled with the initiation of a new project (Drill rig NO2 project, with initial funding from API) and the establishment of multiple contracts between WESTAR and consultants involved in these projects was a substantial effort during the quarter. All awards are now in place and funded, and all but one contract have been completed.
- WESTAR’s annual audit was conducted during the quarter. The audit included the period during which WRAP transitioned to WESTAR and WESTAR negotiated a new Cost Allocation Plan to allocate overhead expenses. Based on the auditor’s exit interview, we anticipate no findings or significant issues to be identified in the audit report.

8. CONSOLIDATED EXPENSE SUMMARY

Cumulative Expenses by Object Class and Funding Source through 3/31/2014 All Active Accounts

	EPA	EPA	NPS	BLM/JFSP	BLM/API	WGA
Object Class	Core Grant	Novation	3-State Task	PMDETAIL	Drill Rig NO2	Contract
Commencing:	Dec 2011	Nov 2013	Feb 2014	Mar 2014	Feb 2014	Oct 2013
1. Personnel	566,332	21,679	9,553	845	1,416	24,421
2. Fringe	134,735	2,740	1,351	120	185	2,313
3. Travel	365,119	2,617	98	150	-	-
4. Equipment	-	-	-	-	-	-
5. Supplies	-	-	-	-	-	-
6. Contractual	99,305	-	-	-	-	-
7. Construction	-	-	-	-	-	-
8. Other	287,715	840	1,127	58	-	1,124
9. Indirect	355,467	20,573	12,432	1,070	1,780	13,869
Cumulative Expenses	1,808,673	48,450	24,561	2,243	3,382	41,727
Budget	2,428,623	110,802	79,862	441,095	20,000	50,888
Balance Avail	619,950	62,352	55,301	438,852	16,618	9,161

**Expenses by Object Class and Funding Source
January 1, 2014 – March 31, 2014
All Active Accounts**

	EPA	EPA	NPS	BLM/JFSP	BLM/API	WGA	
Object Class	Core Grant	Novation	3-State Task	PMDETAIL	Drill Rig NO2	Contract	Totals
1. Personnel	40,221	14,604	9,553	845	1,416	4,370	71,010
2. Fringe	12,205	2,113	1,351	120	185	512	16,486
3. Travel	7,605	2,081	98	150	-	-	9,933
4. Equipment	-	-	-	-	-	-	-
5. Supplies	-	-	-	-	-	-	-
6. Contractual	-	-	-	-	-	-	-
7. Construction	-	-	-	-	-	-	-
8. Other	5,311	840	1,127	58	-	1,124	8,460
9. Indirect	47,125	16,880	12,432	1,070	1,780	4,073	83,361
Expenses this Quarter	112,467	36,518	24,561	2,243	3,382	10,079	189,250