

Monthly Report for Air Quality Projects

Jonah Interagency Office Air Quality Division

October 2009

Project Name: **Wood Stove Change-Out Program**

Work Completed: 41 EPA-certified stoves have been installed and vendor invoices have been sent to Bob Budd for payment.

Upcoming Activities: A survey is currently being circulated amongst the EPA-certified stove winners. So far, about twenty surveys have been returned. They are all showing favorable responses. A full report will be provided once all surveys have been received.

Budget: \$147k has been spent of the earmarked \$150k (\$3k remains). One invoice is yet to be paid (approximately \$1000).

Schedule on Target? Yes.

Other Comments: Quantification of Results: The 41 old wood stoves accounted for approximately 10 tons of pollution per year. With the installation of 41 EPA-certified stoves, the number has been reduced to 0.6 tons of pollution per year. Approximately 8.4 tons of pollution has been reduced for \$150,000. I would say that is a reasonable price. Calculations and assumptions follow.

Assumptions:

1. Because of incomplete combustion, old wood stoves can produce up to 50 grams of particulate per hour (source: Cal/EPA Air Resource Boards Enforcement Division in Cooperation with Local Air Pollution Control Districts)
2. Stoves are burned 18 hours per day for 8 months in Sublette County (October through May; 30 days/months)
3. 3 grams of particulate per hour was calculated from a list of the newly-installed EPA-certified stoves in Sublette County (see attached list)

41 old wood stoves * 50 grams of particulate per hour = 2050 grams/hour (or 4.5 pounds/hour)
4.5 pounds/hour * 18 hours/1 day = 81 pounds/day
81 pounds/day * 240 days/year = 19440 pounds/year
(19440 pounds/year) / (2000 pounds/1 ton) = **9.7 tons/year**

41 old wood stoves * 3 grams of particulate per hour = 123 grams/hour (or 0.27 pounds/hour)
0.27 pounds/hour * 18 hours/1 day = 4.86 pounds/day
4.86 pounds/day * 240 days/year = 1166.4 pounds/year
(1166.4 pounds/year) / (2000 pounds / 1 ton) = **0.58 tons/year**

Project Name: American Recovery and Reinvestment Act (ARRA) Diesel Emissions Reduction Act (DERA)

Work Completed: Work has commenced at Wyoming Machinery! Two pieces of equipment were delivered 10/23/2009. Five Project Agreements have been signed and returned. Work is being scheduled for winter. A successful media event was held in Casper on 10/26/2009. Dave Finley (AQD Administrator) spoke and recognized the JIO and PAPO Executive Boards for their involvement in the Project. Kyle Olson with EPA Region 8 was present and expressed satisfaction with the way things were going.

Upcoming Activities: Five project agreements are pending signatures. Scheduling of all work will occur. Invoices will start being received and paid.

Budget: \$250k earmarked.

Schedule on Target? Yes.

Other Comments: No other comments at this time.

Project Name: Community Outreach Effort – “What Can I Do?” Campaign

Work Completed: Seven environmental advertisements placed in the two newspapers with accompanying environmental message on the local radio.

Upcoming Activities: This effort is temporarily suspended until the winter (January 2010).

Budget: We are halfway through the budget. \$5.7k has been spent of the \$10.3k earmarked.

Schedule on Target? Yes.

Other Comments: No other comments.

Project Name: Environmental Book Donation for Sublette County Citizens

Work Completed: Project is complete.

Upcoming Activities: None.

Budget: All \$7k earmarked has been spent.

Schedule on Target? Yes, complete.

Other Comments: No other comments.

Project Name: **Non-Road Equipment Muffler Change-Out (Heavy Machinery)**

Work Completed: This Program has been launched and is in full swing. I continue to receive phone calls and the vendors are putting together equipment lists. Fifty-nine (59) \$2500 vouchers are slated to be given away to eligible non-road equipment for the purchase and installation of a diesel oxidation catalyst.

Upcoming Activities: November 20, 2009, is the deadline for companies to sign up for the Program.

Budget: \$150k earmarked and approved. No money spent.

Schedule on Target? Yes.

Other Comments: No other comments at this time.

Air Quality Projects:

"Spent"

\$ 442,000.00	Ozone Study
\$ 146,903.11	Wood Stove Change Out Program
\$ 8,000.00	Environmental Book Donation
\$ 5,700.00	Environmental Campaign - Community Outreach
<u>\$ 602,603.11</u>	

"Committed"

\$ 3,096.89	Wood Stove Change Out Program
\$ 4,612.00	Environmental Campaign - Community Outreach
\$ 150,000.00	DOC Muffler Change-Out (Non-Road Equipment)
\$ 250,000.00	ARRA DERA Contribution
<u>\$ 407,708.89</u>	

"Earmarked" \$ 489,688.00 Remains to Spend for Air Quality Projects

Potential Upcoming/Working Projects: \$390,670.00 Project for Dust Suppression for Three High Population Subdivisions – Boulder, WY, Sublette County

Status: Working with Time Wells, High Meadow Ranch Property Owners on revising the letter to address concerns brought up at the JIO Managers Committee Meeting in Cheyenne.