





# LOCUST FIRE B.A.E.R. ACCOMPLISHMENT REPORT

**YEAR ONE: 2011** 



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# LOCUST FIRE B.A.E.R. - FIRST YEAR ACCOMPLISHMENT REPORT SIGNATURE PAGE 2011 LOCUST FIRE

#### **REVIEW AND APPROVAL – BUREAU OF INDIAN AFFAIRS**

I. FIRST YEAR ACCOMPLISHMENT REPORT								
□ Concur	Explanation for Revision or Disapproval:							
☐ Concur with Revision								
□ Do Not Concur								
Nona Tuchawena, Superintendent, Fort Apac	che Agency, BIA Date							
I. FIRST YEAR ACCOMPLISHMENT REPORT								
□ Concur	Explanation for Revision or Disapproval:							
☐ Concur with Revision								
□ Do Not Concur								
Bryan Bowker, Regional Director, Western Re	egion, BIA Date							
II. FIRST YEAR ACCOMPLISHMENT REPORT								
□ Approve	Explanation for Revision or Disapproval:							
☐ Approve with Revision								
□ Disapproved								
Lyle Carlile, Director, Branch of Fire Manager	ment, BIA NIFC Date							

Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

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# **ACCOMPLISHMENT REPORT**

# **EXECUTIVE SUMMARY**

The Locust Fire, AZ-FTA-000047 began on May 6, 2011 in the community of Whiteriver, Arizona on the Fort Apache Indian Reservation. The human-caused fire burned 364 acres before being controlled on May 18, 2011. The Emergency Stabilization (ES) Plan was completed May 24, 2011. The ES Plan contained eleven specifications totaling \$625,006 for FY's 2011, 2012, and 2013 (Locust Fire ES Plan, May 24, 2011) (Table 1).

**TABLE 1: PLANNED BUDGET** 

SPEC #	NFPORS CAT.	PLANNED ACTION	UNITS	# OF UNITS	UNIT COST	FY11	FY12	FY13	TOTAL
1	Planning	Plan Preparation	Acres	1		\$112,688			\$112,688
2	Administration	Implementation Leader	Leader	1		\$21,130	\$14,212	\$7,293	\$42,635
3	Planning	Structural Protection	Each			\$191,840		\$25,072	\$216,912
4	Planning	Floatable Debris Removal	Acres			\$76,256			\$76,256
5	Planning	Culvert Cleaning (BIA)	Each			\$47,060	\$22,330	\$11,165	\$80,555
6	Planning	Culvert Replacement	Each			\$25,100			\$25,100
7	Planning	Culvert Cleaning (ADOT)	Each			\$25,000			\$25,000
8	Planning	Signage	Each			\$4,650			\$4,650
9	Planning	Road Debris Maintenance	Miles			\$10,567	\$5,283		\$15,850
10	Planning	Aerial Seeding	Acres			\$22,100			\$22,100
11	Monitoring	Aerial Seeding Monitoring	Acres				\$1,630	\$1,630	\$3,260
					TOTAL	\$536,391	\$43.455	\$45,160	\$625,006

The first year implementation budget was \$536,391 of the total \$625,006 budgeted. The remaining \$88,615 is to be funded in FY years 2012 and 2013 to conduct monitoring, maintenance, and to uninstall concrete barriers (K-rails).

To date, all specifications are completed except "Culvert Cleaning (ADOT)" and Aerial Seeding Monitoring.

- A. Specification #7, Culvert Cleaning (ADOT), was scheduled to be completed by the Arizona Department of Transportation. It was to fund the cleaning of all culverts under ADOT control that would be impacted by runoff from the Locust Fire watershed. However, ADOT found adequate state funding and completed this task without the aid of B.A.E.R. funds. These funds are unspent (\$25,000).
- B. Specification #11, Aerial Seeding Monitoring", is not scheduled to be started until FY year 2012 and finish in FY 2013.

All of the Specifications were completed by July 17, 2011 except for painting the sandbags (included in Specification #3) and installing warning signs (Specification #8). The delays were caused by monsoonal rains and the time required preparing signage, respectively.

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To date there have been three monsoon events that caused significant water/mud flows. No property damages or losses occurred. The aerial seeding was successful and target vegetation levels have been achieved over approximately 70% of the fire.

Total costs incurred to date are \$352,485.56\*, leaving a surplus of \$183,905.44 in unspent first year funds for FY 2011 (Table 2 & <u>Appendix I – Detailed Balance Sheet</u>). \$127,538.16 (36.2%) of the \$352,485.56 was spent employing Tribal members and paying for usage of Tribal resources.

Monday, September 12, 2011

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Locust B.A.E.R. Project Balance Sheet

27 Culvert and Ditch Cleaning (Year 3)

33 Aerial Seeding Monitoring (Year 3)

Project Name: Tasks Cost Balance Project 1 Plan Preparation (Year 1) B.A.E.R. Planning Team \$112,688.00 \$112,688.00 \$0.00 Lloyd "Randy" Fuller \$21,130.00 \$11,612.27 2 Implementation Leader (Year 1) \$9,517,73 Lloyd "Randy" Fuller \$191.840.00 \$173.319.21 3 Structural Protection (Year 1) \$18,520,79 4 Floatable Debris Removal (Year 1) Lloyd "Randy" Fuller \$76,256.00 \$24,160.65 \$52,095.35 5 Culvert and Ditch Cleaning (Year 1) Lloyd "Randy" Fuller \$47,060.00 \$7,418.28 \$39,641.72 6 Culvert Replacement (Year 1) Lloyd "Randy" Fuller \$25,100.00 \$10,663.75 \$14,436.25 7 ADOT Culvert Cleaning (Year 1) Lloyd "Randy" Fuller \$25,000.00 \$0.00 \$25,000.00 Lloyd "Randy" Fuller \$4,650.00 \$1,610.00 \$3,040.00 8 Flood Hazard Signs (Year 1) 9 Road Debris Removal (Year 1) Lloyd "Randy" Fuller \$10,567.00 \$0.00 \$10,567.00 Lloyd "Randy" Fuller \$22,100.00 \$11,013.40 \$11,086.60 10 Aerial Seeding (Year 1) 13 Implementation Leader (Year 2) Lloyd "Randy" Fuller \$0.00 \$0.00 \$0.00 16 Culvert and Ditch Cleaning (Year 2) Lloyd "Randy" Fuller \$0.00 \$0.00 \$0.00 20 Road Debris Removal (Year 2) Lloyd "Randy" Fuller \$0.00 \$0.00 \$0.00 22 Aerial Seeding Monitoring (Year 2) Lloyd "Randy" Fuller \$0.00 \$0.00 \$0.00 Lloyd "Randy" Fuller 24 Implementation Leader (Year 3) \$0.00 \$0.00 \$0.00 \$0.00 25 Structural Protection (Year 3) Lloyd "Randy" Fuller \$0.00

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\$0.00

\$0.00

\$536.391.00

\$0.00

\$0.00

\$352,485,56

\$0.00

\$0.00

\$183,905,44

All documents pertaining to the Locust B.A.E.R. ES project are available for inspection at the Fort Apache Agency, 2 West Elm St., Whiteriver, Arizona 85941.

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Lloyd "Randy" Fuller

Lloyd "Randy" Fuller

<sup>\*</sup>EXPENDITURES REFLECT CHARGES AND ESTIMATED CHARGES THRU SEPTEMBER 17, 2011 (SEE APPENDIX I).

# **SPECIFICATION ACCOMPLISHMENTS**

# SPECIFICATION # 1 ~ PLAN PREPARATION

The initial planning preparation began on May 11, 2011. The planning team consisted of 15 members (Appendix A). The close out meeting was held on May 19, 2011. The final plan document was completed on May 23, 2011 and submitted for approval. The plan was fully approved on May 31, 2011. Initial funding to cover the plan preparation was received on May 24, 2011 (Appendix A).

#### **FUNDING**

Funding allocated for Specification # 1 is \$112,688.

#### **EXPENDITURES**

The team spent \$112,688 in the plan preparation: this leaves a balance of \$0.00.

#### IMPLEMENTATION LEADER REPORT

The team consisted of 15 memebers: a National B.A.E.R. team leader (Darryl Martinez), a Deputy Team Leader (Chris English), and a mix of B.A.E.R. resource specialists and trainees (Appendix B). The size of this fire (364 acres) provided an excellent opportunity to introduce local specialists, both Federal and Tribal, to the B.A.E.R. process. The team efforts were of the highest standards. Two specialists, Brian Rasmussen (Geologist-NPS) and Lorri Peltz-Lewis (Hydrologist-USFS) were requested because of the potential losses to life and property caused by the proximity of this fire to the local community. The plan was completed on time and on budget in accordance with policy (USDA FSM 2523, and DOI 620 DM 3T).

#### **REVIEW OF SPECIFICATION OBJECTIVES**

The planning phase is very well defined in terms of content and the time necessary to produce the final product in the applicable publications. So when the decision was made to activate a B.A.E.R. Team the planning phase went smoothly.

## **REVIEW OF TEAM PERFORMANCE**

The planning team worked well together and was lead by seasoned B.A.E.R. leaders and B.A.E.R. specialists.

#### **REVIEW OF PRODUCTS**

None

#### **SUMMARY OF FOLLOW-UP ACTION RECOMMENDATIONS**

None

#### **LESSONS**

Several local members of the planning team were assigned as trainees. This was an excellent opportunity to gain valuable experience in B.A.E.R. operations and to function as a B.A.E.R. specialist. B.A.E.R. positions are fire position and like all fire positions they have specific tasks that must be completed in order to qualify to function as a B.A.E.R. Specialist.

#### **ISSUES AND RISKS**

None

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# SPECIFICATION # 2 ~ IMPLEMENTATION LEADER/ADMINISTRATION

Specification 2 is to fund a project leader to coordinate and oversee the implementation of the Locust Emergency Stabilization Plan. This specification provides funding for three months the first year, 2 months the second year, and one month the third year. The Fort Apache Agency Inventory Forester, Dr. Lloyd Fuller, was selected for this task.

#### **FUNDING**

Funding allocated for Specification # 2 is \$21,130, \$14,212 and \$7,293 for the first through the third year, respectively: for a total allocation of \$42,634.

#### **EXPENDITURES**

A total of \$11,612.27 has been expended; leaving a first year balance of \$9,517.73.

#### IMPLEMENTATION LEADER REPORT

This is the first DOI B.A.E.R. project the implementation performed. This was an excellent opportunity to learn the DOI B.A.E.R. requirements and procedures. I look forward to working with the DOI National B.A.E.R. Team on future projects.

#### **REVIEW OF SPECIFICATION OBJECTIVES**

The objectives of the Implementation Leader are clearly defined in the <u>Interagency Burned Area Emergency</u> Response <u>Guidebook (Version 4.0)</u> and <u>Department of the Interior 620 DM 3</u> and <u>USDA Forest Service Manual 2523</u>.

#### **REVIEW OF TEAM PERFORMANCE**

None

#### **REVIEW OF PRODUCTS**

None

#### **SUMMARY OF FOLLOW-UP ACTION RECOMMENDATIONS**

None

#### **LESSONS**

The entire B.A.E.R. experience became a valued learning experience. The most useful experience gained was a better understanding of the Incident Business Management functions and procurement procedures. Both the staff at Fort Apache Agency and in Phoenix WRO was extremely helpful and patient as we worked through difficulties together caused by the disruptions from the Wallow Fire.

#### **ISSUES AND RISKS**

None

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# **SPECIFICATION #3 ~ STRUCTURAL PROTECTION**

Specification # 3 is composed of several individual tasks:

- 1. Acquisition of 90,000 sandbags
- 2. Acquisition of 1,590 tons washed sand
- 3. Filling the sandbags
- 4. Placing the sandbags according to the Structural Point Protection Maps
- 5. Remove K-rails from previous B.A.E.R. installs and placing in new locations according to map
- 6. Paint the sandbags to shield them from UV radiation and increase longevity

7.

#### **FUNDING**

Funding allocated for Specification # 3 is \$216,912:

- 1. Year one funded at: \$191,840
- 2. Year three funded at: \$25,072
  - a. To remove and store K-rails for future use

#### **EXPENDITURES**

A Total of \$173,319.21 has been expended: leaving a first year balance of \$18,520.79.

#### IMPLEMENTATION LEADER REPORT

Structural Protection is the most detailed, labor intensive, and costly of all specifications to accomplish. This specification called for 90,000 sandbags to be installed by a crew of 20 in 20 days and ¼ mile of K-rails to be installed in 15 days by a crew of 5 (this 5-man crew is also used to paint the 90,000 sandbags).

Acquisition of sandbags became a major hurdle because of the extensive flooding in the Ohio and Mississippi watersheds. The Corps of Engineers purchased large bulk quantities in the millions of bags. Three separate purchases of sandbags (10,000, 8,000, and 72,000 bags) were made in order to complete the task. Prices varied from \$0.14/bag to \$0.28/bag. However, this shortage of sandbags did not delay the completion of this task. Filling and placement of sandbags and placement of K-rails began on June 13, 2011 (funding was completed on June 14, 2011) and was completed by July 15, 2011.

The crews installed 66,000 sandbags, 215 K-rails, and filled 3,000 sandbags to be stored at Fire Management in case of emergency needs. A gravity feed sandbag filler was purchsed to aid in this task (<a href="https://www.thesandbagger.com">www.thesandbagger.com</a>).

On July 20, 2011 the Locust Fire experienced a major rain event totalling 2.0" of rain in 47 minutes. A 2"/hour rain event was the maximun storm event modelled by the team. There were two minor breaches in the sandbags and one moderately severe breach. Breaches were contained during the storm event and no damages or property losses occurred. All of the installations performed exceptionally well because of the design work by the initial planning team, the diligence of the crews placing the sandbags in the field, and the immediate repair work done during the extreme storm event. Further improvements and modifications were made immediately after this rain event using the 3,000 pre-filled sandbags. Another 2,000 sandbags were then filled and pre-positioned at Fire Management in case of another emergency. Approximately 19,000 unfilled sandbags remain and are stored at Fire Management along with the 2,000 filled sandbags.

On each day of August 19 & 20, 2011 the Locust Fire received 0.6" of rain (Appendix D) which caused water and mud flows into and through the community homes and out onto the lower road. The flows were less severe than the July 20<sup>th</sup> storm, but still required expenditure of funds to remove mud/debris from the roads and ditches/culverts (See photo page). The weather data was provided by the National Weather Service (NWS) out of Flagstaff, Arizona and consisted of a solar mobile weather station the could be monitored remotely

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through the internet (Appendix H). This weather unit was placed on the ridge above the Locust Fire on August 4, 2011.

On the night of September 6, 2011 there was a 1.2" rain storm (Appendix H) that caused the fourth significant mud and debris flow. Observers said this was the heaviest of the four flows to date. One house on the Sourthern end of the fire got some mud inside the back door but no other incidences were reported. This storm resulted in very heavy mud and rock flows which challenged the k-rail installs and drainages to their literal maximum. It was necessary to bring in a bulldozer, excavator, and dump truck, plus addition personell to remove mud and rocks from behind the k-rails (several locations the mud/rocks were within inches of overtopping the k-rails). The drainage behind Whiskey Flats was within 3 inches of being compromised. Had this drainage failed there would have been major flooding into the homes of Whiskey Flats. The excavator was used to remove sediment accumulations from this drainage and haul it to the Tribal farm in Canyon Day. I also had the bulldozer install two more "rolling dips" to aid in the drainage of certain problem crossings and to make minor repairs to the powerline road where there was some accelerated erosion (Appendix F).

The Implementation Leader started the sandbag installation by setting priorities for all properties considered to be at the highest risk of damage should a storm occur before completion. Of the 137 at risk properties 58 were considered vulnerable to damage from water and mud. Gerd VonGlinsky, the Tribal Hydrologist and Locust B.A.E.R. Operations Chief, and I prioritized the 58 properties. Starting with the highest risk properties and working down the list we finished sandbagging on July 15, 2011. Monsoon rains were predicted to begin on July 15<sup>th</sup>, however, the rains actually began on July 1<sup>st</sup>. There were numberous small rain showers that swept the fire during the implementation phase; however no damages or losses were substained. I believe that the priorities we set were correct and lead to the success of this task.

Painting of the sandbags was delayed into September because of monsoonal rains.

#### **REVIEW OF SPECIFICATION OBJECTIVES**

The plan called for 4,000 sandbags to be filled and placed every day. This required a maximum effort of over 10 hours per day for 20 days. This level of exertion was not sustainable. I used two Tribal crews that gave us a core workforce of 15 individuals. They were exceptional workers. Even given the exceptional quality of this workforce we were not able to sustain a maximum effort every day. A more realistic requirement would call for a crew of 20 and 2,500-3,000 bags per day. We were able to complete the work just inside of 30 days (working 10-hour days Monday thru Saturday) by using our core Tribal crews, one SWFF crew (11 person crew) for 14 days, and various Type II IA crews that came and went on an irregular schedule (because of fires) that were on loan from our Fire Management group.

Because of a favorable cost structure and exceptional cooperation between BIA Branches and Tribal Forestry the crews were able to complete this specification on time and under budget.

Several items were not accounted for in the initial planning phase: and had there not been a favorable labor force cost structure these items would have run this specification over budget.

- 1. The sandbag filling machine required a skid steer to keep it filled. Cost was about \$3,000/month.
- 2. There needed to be an equipment operator for the sandbag filling skid steer at \$15.00/hour.
- 3. Transportation for the sandbags from the filling site to the placement site required either a truck/trailer combination or a tractor/heavy trailer with qualified CDL driver.
- 4. Transportation of crews to/from sandbag filling site to point protection sites (SWFF crew).
- 5. Painting required a truck and trailer to move the paint, sprayer, and crew from site to site.

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- 6. The paint sprayer specified required a generator to provide electricity plus an extra long extension cord so we could move the sprayer around to the back of buildings where the truck could not maneuver.
- 7. No allowances were made for a semi-tractor and 60,000 pound trailer to move the K-rails. I ended up using a Fire Management transport semi-tractor and bulldozer trailer to accomplish this task. Both were BIA assets and no costs were incurred other than a certified CDL driver.
- 8. No allowances were made for ground leveling under off-road K-rail installations.
- 9. Crew comfort (Porta John) is an essential element.

#### **REVIEW OF TEAM PERFORMANCE**

One of the highest priorities from the outset of this project was the use of Tribal member labor and equipment whenever possible. Approximately 97% of the labor force was Native American/Tribal employees. Approximately 60% of the equipment used belonged to the White Mountain Apache Tribe. The non-Tribal equipment consisted of two 10,000 pound lift, 4-wheel drive, 4-wheel steer forklifts (rented), one road grader (BIA), paint sprayer (rented), and generator (rented).

The two Tribal crews hired constituted the core labor force and were of exceptional quality. These crews were well trained, well disciplined, and lead by two competent crew leaders. These two crews were involved in all seven specifications that required a labor force (other than aerial seeding).

#### REVIEW OF PRODUCTS\*\*

#### SANDBAG FILLING

The sandbag filling machine purchased from The Sandbagger Corporation (<a href="www.thesandbagger.com">www.thesandbagger.com</a>) was a Model GF-2 gravity fed 2 chute design (GSA Contract NSN # 3895-01-460-3910, \$3,833.57 + \$350 Steel surcharge)(<a href="Appendix E">Appendix E</a>). The Model GF-2 is advertised as having a fill rate of up to 400 bags per hour. While it was possible to achieve this rate it was not possible to sustain this rate and a more reasonable production rate is 250 to 300 bags per hour.

The rate of sandbag filling is controlled by a couple of factors:

- 1. Wet sand gravity feeds at a much slower rate than very dry sand. Wet sand required more manual "stirring" to aid in feeding through the two chutes.
- 2. This particular model has a 1-yard capacity which required very frequent filling thereby slowing production rates.

Overall this style of sandbag filler performed well and was an asset on this type of small fire. However, on much larger fires this unit would not be adequate. Some sort of vibrator/auger to aid in the sand flow would be a distinct advantage. For filling 100,000 or more sandbags I would recommend a four-chute multibagger with auger feed. The cost differences between Model GF-2 and Model MB-3 is significant (\$3,833.57 vs \$23,675.85, respectively) but the increased production capacity should make the larger model cost competitive.

#### SANDBAGS

This project used two different types of standard sandbags:

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- 1. 14" x 26" white woven polypro basic sandbag with 1600 UVI and tie string costing about \$0.15/bag in bundles of 100 or bales of 1,000. (<a href="http://www.arizonabag.com/product/Sand-Bags/728/">http://www.arizonabag.com/product/Sand-Bags/728/</a>)
- 2. 14" x 26" various colored "Barricade Bag" without ties costing about \$0.28/bag in bundles of 100 or bales of 1,000. Barricade bags are special sand bags designed to take the wear and tear of holding barricades. (http://www.arizonabag.com/product/Barricade-Bags/643/)

The lighter weight white polypro bag was easy to fill and tie, which aided in transporting and "chaining" the bags into position (chaining is simply a line of crew members to pass the bags from one to another in a fire bucket brigade style). This style of bag is designed to withstand 1,600 hours of UV light before deteriorating. However, in the "Arizona Sun" of Whiteriver this style of bag became extremely fragile in as little as 200 hours of sunlight exposure. This project was entirely within developed communities in and around houses. This style of bag did not hold up well to foot traffic or unsupervised children. This style of bag became virtually useless in less than three weeks where unsupervised children were playing. After 200 hours of sunlight you could no longer move/reposition this style of bag (Appendix F).

The Barricade bags performance was far superior to the light weight polypro bags. After several months the barricade bags were still intact and could be easily repositioned or moved. The bags remained serviceable even after some of the surface roads were chip sealed and the bags were subjected to hot road tar.

I would not recommend the lighter weight white polypro for anything other than a very short duration project. Even with painting I do not believe that these types of light weight bags would remain serviceable longer than 90 days. The added cost of the Barricade bags more than justifies their use on this project because the specification calls for the sandbags to be in place for up to three years.

#### K-RAIL INSTALLATION

K-rail installation under normal situations would be accomplished along highways by semi-tractor and crane on level ground. However, all of the K-rails for this project were placed off road onto uneven and rough terrain. The 10,000 pound lift, 4-wheel drive, 4-wheel steer construction forklifts proved very adept for this purpose (<a href="http://www.ur.com/index.php/equipment/rental/browse/view/?id=1405&category=Forklifts+%26+Material+Handling&page=3&tab=description">http://www.kenco.com/index.php/equipment/rental/browse/view/?id=1405&category=Forklifts+%26+Material+Handling&page=3&tab=description</a>). This type of forklift, when mated with a K-rail grapple, (<a href="http://www.kenco.com/BarrierLift.html">http://www.kenco.com/BarrierLift.html</a>) is ideal for placement of K-rails off road and in difficult places.

\*\*Use of specific product names and/or websites does not constitute any form of endorsement and only aids in providing relevant examples.

#### **ISSUES AND RISKS**

The continued tampering/vandalism of the sandbags put many properties at risk in the event of a large rain event. There is not adequate funding and personnel available to monitor these installations in an on-going fashion and to effect constant repairs. Should the sandbag tampering/vandalism continue many properties will be put at increased risk of flood damage!

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# SPECIFICATION # 4 ~ FLOATABLE DEBRIS REMOVAL

There are nine identifiable drainages within the Locust Fire boundary. Most of the drainages that enter and pass through the housing communities contain a large amount of debris that would float should the drainages experience flows. This floatable debris poses a risk of blocking the drainages and culverts and potentially creating unwanted dams. The removal of any debris is essential for unrestricted water/mud flow from the fire watershed through the communities and across Highway 73 and into the North Fork of the White River.

#### **FUNDING**

Funding allocated for Specification # 1 is \$76,256.

#### **EXPENDITURES**

The team spent \$24,160.65 in the plan preparation: this leaves a balance of \$52,095.35.

#### IMPLEMENTATION LEADER REPORT

Floatable debris in drainages around community homes contained a certain amount of unidentified trash. For this reason we decided that Mr. Terry Hill, White Mountain Apache Tribe Environmental Protection Office, would supervise this activity. Mr. Hill supervised a 10-person team in the cleanup and acted as the Safety Officer for this task. All debris within the defined channels was removed and placed in 40 cubic yard roll off containers and removed from the Reservation to a dump site in Show Low, Arizona. Approximate 10 loads were removed from all drainages. No floatable debris has caused any blockages of the drainages.

#### **REVIEW OF TEAM PERFORMANCE**

This was a difficult task and required care in the handling of this form of debris. Mr. Hill utilized his expertise and the crew to effectively clear this debris away. The plan called for 20 days of work; however, this task was completed in approximately 7 days. The efficiency of the crews saved the project \$52,095.35.

#### **REVIEW OF PRODUCTS**

No Products to Review

#### **SUMMARY OF FOLLOW-UP ACTION RECOMMENDATIONS**

The communities, for various reasons, use the drainages from this fire for trash disposal. Follow-up inspections of all drainages need to be conducted to ensure that they remain clear and to ensure unobstructed flows. Some of the \$52,095.35 in savings should be reallocated to year two and three to keep these drainages free of debris.

#### **ISSUES AND RISKS**

The continued use of drainages for trash disposal not only increases the chances of culvert obstruction, but also poses a community health risk. This practice should be strongly discouraged by Tribal authorities.

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# SPECIFICATION # 5 ~ CULVERT AND DITCH CLEANING

The ability to move water/mud from the fire, through the communities, across Highway 73, and ultimately into the North Fork of the White River is essential. This Specification requires that culverts and inboard ditches in areas at risk to flooding and mud flows, due to post fire watershed conditions, should be cleaned to insure maximum flow capacity. Subsequent to flood events culverts and inboard ditches should be inspected and, if necessary, re-cleaned.

#### **FUNDING**

Funding allocated for Specification # 1 is \$80,555 for three years.

- 1.  $1^{st}$  Year = \$47,060
- 2.  $2^{nd}$  Year = \$22,330
- 3.  $3^{rd}$  Year = \$11,165

#### **EXPENDITURES**

The team spent \$7,418.28 in cleaning all affected culverts and ditches; this leaves a balance of \$39,641.72 for the first year. (See <a href="Specification#6">Specification#6</a> for Culvert Replacements)

## IMPLEMENTATION LEADER REPORT

I used three heavy equipment operators from the Tribe and equipment from both the BIA Roads Departement (roadgrader) and the Tribe (backhoe) to accomplish this task. Mr. Leo Nachu was the crew supervisor and oversaw equipment operations and acted as the on-site safety officer. Mr. Nachu is an experienced heavy equipment operator and was very efficient in his use of the equipment. This task was able to realize considerable savings because I was able to use local Tribal and BIA resources. Every ditch and culvert inspected needed attention. Most culverts were buried and plugged and extensive reworking of the ditches was necessary. The roadgrader was invaluable in recontouring all ditches. Hand shovel and bucket tractor work was necessary to bring the ditches to final grade. Prior to working on the ditches all plugged culverts were removed in preparation for their replacement.

#### **REVIEW OF SPECIFICATION OBJECTIVES**

The "Labor, Materials and other Cost" section of the specification is a reasonable approximation of the costs. We were able to achieve considerable cost savings because of the resources available locally. Had this task been contracted it would have used most of the funds allocated.

#### **REVIEW OF TEAM PERFORMANCE**

Because of the many years of experience that Mr. Leo Nachu possessed in heavy equipment he and his crew performed to the highest standards. This task was completed in less time than allocated and under budget.

#### **REVIEW OF PRODUCTS**

No Products to Review.

# **SUMMARY OF FOLLOW-UP ACTION RECOMMENDATIONS**

Several of the ditches and roads needed cleaning after the storms on July 20, August 19, and August 20, 2011.

#### **LESSONS**

For future reference it should be noted that the 18" culverts specified are too small and became plugged when there was flow of mud/ash/water. This was anticipated by Mr. Dusty Parsons, Navajo County Emergency Manager, who stated during a visit that they should be 24" culverts, and that his experience showed the 18" culverts were always "blown out" from mud/ash flows. His suggestion was to remove all 18" culverts until all risks of flooding had subsided. I made the decision to keep the 18" culverts for three reasons:

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

- 1. New 18" culverts were already in place.
- 2. Most culverts were for driveways. It was not feasible to use "low water crossings" for driveways.
- 3. The 24" culverts require a 30"-36" ditch. Using a 24" culvert would have entailed a complete reengineering of the roadside drainage ditches and some of the culvert systems crossing under Highway 73 (ADOT). This type of action is not allowed in a B.A.E.R. Emergency Stabilization project. The intent B.A.E.R. projects are to stabilize the site and not improve the site. B.A.E.R. projects can only restore infrastructure damaged by a fire, but it cannot improve on what already existed. Replacing existing 18" culverts with 24" culverts would be considered an improvement.

#### **ISSUES AND RISKS**

Should the ditches and culverts become obstructed in future rain events the flow around them becomes very unpredictable. This unpredictability will continue to pose a hazard to property with the communities.

# SPECIFICATION # 6 ~ CULVERT REPLACEMENT

Most culverts in the potential flooding zone were non-serviceable because they were plugged or damaged. This specification replaces damaged or plugged culverts to reduce the potential for flooding and damage to homes and to maximize the movement of water and mud through the community and into the North Fork of the White River.

#### **FUNDING**

Funding allocated for Specification # 6 is \$25,100.

#### **EXPENDITURES**

The team spent \$10,663.75 on culvert replacement: this leaves a balance of \$14,436.25.

#### IMPLEMENTATION LEADER REPORT

All culverts needed cleaning and almost all needed replacement. By combining Specification 5 (Ditch and Culvert Cleaning) with this specification many economies were achieved. The obvious tactic was to remove all culverts and then clean the ditches and then replace the culverts with new culverts. This effectively combined Specification 5 & 6 into one operation. The same crews and supervisors were used for both specifications.

#### **REVIEW OF SPECIFICATION OBJECTIVES**

The "Labor, Materials and other Cost" section of this specification seems to be a reasonable approximation of anticipated costs. I was able to achieve considerable cost savings because of the resources available locally and a very favourable labor cost factor. Had this task been contracted it would have used most of the funds allocated.

#### **REVIEW OF TEAM PERFORMANCE**

Because of the many years of experience that the lead heavy equipment operator, Mr. Leo Nachu, possessed his crew performed very well. This task was completed in less time than allocated and under budget.

## **REVIEW OF PRODUCTS**

No Products to Review

#### **SUMMARY OF FOLLOW-UP ACTION RECOMMENDATIONS**

See Specification 5 for the appropriate follow-up recommendations.

Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# SPECIFICATION # 7 ~ ADOT CULVERT CLEANING

There are 8 drain culverts and two large box culverts that cross Highway 73. These culverts are maintained by the Arizona Department of Transportation (ADOT). This specification cleans all culverts to insure maximum flow capacity.

#### **FUNDING**

Funding allocated for Specification # 7 is \$25,000.

#### **EXPENDITURES**

The team spent \$0.00: this leaves a balance of \$25,000.

#### IMPLEMENTATION LEADER REPORT

The culverts and box culverts that cross under Highway 73 belong to ADOT and are considered to be in their right-of-way. In prior conversations with ADOT the area supervisor stated that Arizona did not have the budget to inspect and clean these culverts. Without cleaning of these culverts there was a real possibility that water and mud flows could breach onto Highway 73; posing a very real safety concern. Therefore, the planning team requested funds to aid ADOT in completing this task. After this plan was accepted and funded ADOT found adequate funding to complete this task using State of Arizona funds. Therefore no B.A.E.R. funds were used to complete this Specification.

#### **REVIEW OF SPECIFICATION OBJECTIVES**

In view of the budgetary constraints that the State of Arizona is experiencing it was reasonable to request assistance from B.A.E.R.

#### **REVIEW OF TEAM PERFORMANCE**

ADOT used an outside contractor that had specialized equipment. These contractors were experts in completing this task. The State of Arizona's performance in completing this task not only saved considerable B.A.E.R. funding, but it also saved me the extra efforts required to contract this task.

#### **REVIEW OF PRODUCTS**

No Products to Review.

#### **SUMMARY OF FOLLOW-UN ACTION RECOMMENDATIONS**

No follow-up recommendations are required for the BIA or Tribal personnel. ADOT has already made several follow-up inspections of their culverts following storms. It is anticipated that ADOT will continue to perform this function as long as it is necessary. I greatly appreciate the State of Arizona's cooperation and coordination in this important task.

#### **ISSUES AND RISKS**

Should the State of Arizona no longer fund ADOT to inspect their culverts under Highway 73, it may become necessary for B.A.E.R. to undertake funding this task. To allow the culverts and box culverts to become plugged posses an unacceptable risk to public safety. If, in the future, additional funding is required I will submit an amendment to the plan.

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# SPECIFICATION # 8 ~ FLOOD HAZARD SIGNS

Flood and mud flow hazard warning signs should be developed for immediate installation at low water crossings for the protection of life and property.

#### **FUNDING**

Funding allocated for Specification # 8 is \$4,650.

#### **EXPENDITURES**

The team spent \$1,610: this leaves a balance of \$3,040.

#### IMPLEMENTATION LEADER REPORT

Contracting for the construction of the signs actually took several weeks which delayed their "immediate" installaton. No adverse flooding occurred at the locations where the signs were to be placed between the time the signs were ordered and they were ultimately installed.

#### **REVIEW OF SPECIFICATION OBJECTIVES**

This Specification is necessary for public safety and has been used many times on the Reservation with other fires. The costs associated with this specification are very accurate.

#### **REVIEW OF TEAM PERFORMANCE**

None

#### **REVIEW OF PRODUCTS**

One comment seems relevant to the product ordered. Because these signs are very close to residential communities it was advisable to add anti-vandalism coatings to the signs at an extra cost. This addition expense should increase the useful life of the signs.

#### **SUMMARY OF FOLLOW-ON ACTION RECOMMENDATIONS**

None required

# **ISSUES AND RISKS**

None

Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# SPECIFICATION # 9 ~ ROAD DEBRIS REMOVAL

During major storm events sections of roadways are expected to flood or experience significant surface. Flood events will erode and/or deposit sediment, organic, debris, and boulders on roadways making them unsafe and/or impassable. This specification provides for removal of sediment, debris, and rock fall on roadways.

#### **FUNDING**

Funding allocated for Specification # 9 is \$15,850.

- 1.  $1^{st}$  year = \$10,567
- 2.  $2^{nd}$  year = \$5,283

#### **EXPENDITURES**

The team spent \$0.00: this leaves a balance of \$10,567 for the first year.

#### IMPLEMENTATION LEADER REPORT

On July 20, 2011 there was a large rain event that produced 2" of rain in approximately 47 minutes. This resulted in large amount of ash and debris movement and water and mud flows across N. Locust Ave. and Tinijeth St. This mud flow caused the immediate closue of these surface roads by myself and the White Mountain Apache Police Department. This closure lasted about one hour. BIA roads equipment was mobilized by Virgil Paxon immediately after the storm and graders and sweeps cleaned the roads. There were two smaller storms (0.6" each) on August 19<sup>th</sup> and 20<sup>th</sup> and a 1.2" storm on September 6<sup>th</sup> that resulted in mud and rock flows across the same roads. BIA roads failed to respond and the roads were cleaned by B.A.E.R. personell even though funds were allocated for cleaning the roads. Clarification needs to be obtained on the responsible party for cleaning BIA roads. If BIA roads cannot respond then the \$15,850 needs to be returned to NIFC so that it can be reallocated to other B.A.E.R. projects. If BIA roads cannot respond because of funding needs then the \$15,850 should to be allocated to the roads department to assist in road debris removal.

#### **REVIEW OF SPECIFICATION OBJECTIVES**

It is very reasonable to assist BIA and Tribal roads departments that might incur extra expenses because of this fire. BIA roads department operates on a very limited budget and it not reasonable to expect them to absorb these additional charges for maintenance without reimbursement.

#### **REVIEW OF TEAM PERFORMANCE**

BIA roads responded to the July 20, 2011 storm immediately. Initial clean up was completed within one hour. The next day BIA roads had a sweeper cleaning up the remaining debris. There performance was exceptional considering their limited staff: both Mike Lomayaktewa and Virgil Paxon are to be commended.

#### **REVIEW OF PRODUCTS**

No Products to Review

## **SUMMARY OF FOLLOW-ON ACTION RECOMMENDATIONS**

It is expected that there will be several more large rain events within the next three years that will deposit mud and debris on surface roads.

#### **ISSUES AND RISKS**

The surface roads of N. Locust Ave. and W. Tenijieth Ave. will remain at risk of collecting mud and debris. Because of the design of the existing drainages the flow of water and mud across these surface streets is unavoidable. A provision for continued maintenance of these roads is necessary for public safety.

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# SPECIFICATION # 10 ~ AERIAL SEEDING

In order to aid in emergency soil stabilization aerial seeding was selected to establish vegetation on areas of low to moderate burn severity.

#### **FUNDING**

Funding allocated for Specification # 1 is \$22,100.

#### **EXPENDITURES**

The team \$11,013.40 on aerial seeding: this leaves a balance of \$11,086.60.

#### IMPLEMENTATION LEADER REPORT

The Helitac helicopter was already on contract and Marwin Dazen (Helicopter Manager) was able to modify this contract to add aerial seeding. Since the flight rate for the Aerospatiale helicopter (Eurocopter AS350 B3) was already negotiated and discounted this allowed the project to realize a considerable savings. Mountain Air Helicopters, Inc. (<a href="http://www.mountainairheli.com">http://www.mountainairheli.com</a>) had aerial seeding qualified pilots and a new seeder. The initial budget allocated 15 hours of flight time, but by placing the operational helipad close to the fire on the backside of the ridge the contractor was able to complete the project in 7 flight hours.

#### **REVIEW OF THE BUSINESS CASE**

The approved Aviation Project Plan dated 7/5/2011 is on file at the Fort Apache Agency.

#### **REVIEW OF SPECIFICATION OBJECTIVES**

This specification called for 85 pounds of seed per acre, or 0.03 ounce per square foot. This translates to about 20 seeds per square foot. The objective was to use up the remaining seed from seed from the 2002 Rodeo-Chediski Fire. There were 600 50-pound bags of seed remaining (30,000 pounds). A viability test showed that this seed still had approximately 85% PLS. Instead of disposing of this seed it was decided that the mix was a good match for the Locust habitat and that we would use all of the seed across the fire.

NOTE: There were initial questions about the viability of the seed from the Rodeo-Chediski Fire, but germination tests and after seeding surveys I conducted show that this seed source still contains high PLS (Percent Live Seed). Initial surveys show that there is very good germination. So the decision to use this seed source is validated.

#### **REVIEW OF TEAM PERFORMANCE**

The pilot and Helitack ground support crew completed this task on time and under budget.

#### **REVIEW OF PRODUCTS**

The ASTAR B3 is an exceptional high performance helicopter and performed without incidence.

#### **SUMMARY OF FOLLOW-UP ACTION RECOMMENDATIONS**

This specification requires follow up surveys in years two and three to assess the establishment of the seed (See Specification # 11 ~ Aerial Seeding Monitoring Effectiveness).

## **LESSONS**

The lesson to be learned from this task is that seed properly stored (cool and dry) can retain highly viable for extended periods of time.

#### **ISSUES AND RISKS**

None

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# SPECIFICATION # 11 ~ AERIAL SEEDING MONITORING EFFECTIVENESS

The purpose of the effectiveness monitoring is to assess grass establishment to aid in erosion control and burn site stabilization in 2012 and 2013. The plan calls for the successful establishment of plants at 5.7 plants per square yard by evaluation of 1/300 acre circular plots.

#### **FUNDING**

Funding allocated for Specification # 1 is \$3,260.

- 2<sup>nd</sup> year (2012) = \$1,630
   3<sup>rd</sup> year (2013) = \$1,630

#### **EXPENDITURES**

The team spent \$0.00 the first year on this specification: this leaves a balance of \$0.00.

1. Monitoring expenditures begin in 2012 and end in 2013.

#### IMPLEMENTATION LEADER REPORT

It is necessary to evaluate the effectiveness of aerial seeding on this type of fire for future reference. The high application rate of 85 pounds per acre coupled with the still high viability gives this site the best possibility for successful grass establishment. Just after seeding the monsoon rains regularly swept the fire with gradual soaking rains that will encourage successful germination and establishment. The July 20<sup>th</sup> storm did transport seed off of the mountain and downslope and onto powerline road. However, significant seed still reamains embedded behind and around the heavy rock armoring that is pervasive on this site. Coupled with the strong re-emergence of the native plants the aerial seed has a very good chance of long-term establishment.

NOTE: Visual indications and anecdotal measurements in late August and Early September of 2011 show a very high germination rate and more than adequate establishment. Therefore I can say that the aerial seeding was very successful. (Specification # 10) (See Photos)

#### **REVIEW OF SPECIFICATION OBJECTIVES**

It is necessary to quantify the successful establishment of the aerial seeding efforts. A standard seedling establishment survey technique is adequate to determine the success/failure of Specification # 10.

#### **REVIEW OF TEAM PERFORMANCE**

None

#### **REVIEW OF PRODUCTS**

None

#### **SUMMARY OF FOLLOW-ON ACTION RECOMMENDATIONS**

This Specification is to be implemented the second and third year after the fire. There are no first year activities to report.

#### **LESSONS**

The lesson to be learned from this task is that seed properly stored (cool and dry) can retain highly viable for extended periods of time.

## **ISSUES AND RISKS**

None

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# **APPENDICES**

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#### **APPENDIX A – Initial Funding Notice**

May 24, 2011

Memorandum

To: Regional Director, Western Region

Attention: Forestry/Fire Management

From: Acting Director, Branch of Wildland Fire Management

Subject: Additional 2011 Locust Fire Emergency Stabilization Funding Approval

The Bureau of Indian Affairs, National Interagency Fire Center (BIA-NIFC) approves additional Emergency Stabilization (ES) funding of \$70,000 for the Locust Fire on the White Mountain Apache Tribe Reservation, Fort Apache Agency, to address emergency post-fire public safety and resource protection issues. This additional funding, with previous funding of \$30,000, now brings the total ES funding authorized for the Locust Fire to \$100,000. The region will not receive any additional funding documents authorizing expenditures for Emergency Stabilization (ES) projects, but under ES the Fort Apache Agency can begin expenditures for this project. Maximum distribution of ES funds is as follows:

#### **Funding Codes**

REGION	FFS FUND CODE	FFS PROGRAM	PROJECT DESCRIPTION	PROJECT NUMBER	MAXIMUM AMOUNT
Western	92500	92320	Locust Fire ES	F3G9	\$ 100,000

Use of these funds will be specified in the Emergency Stabilization plan currently being finalized by the Western Regional Burned Area Emergency Rehabilitation (BAER) team on site.

Emergency stabilization activities are funded through the emergency operations account (92500) with a program code of 92320. Please note that DOI Manual 620 DM 3, 3.8 specifies ES treatments to be carried out within one (1) year following containment of a wildland fire. Repair or replacement of treatments or monitoring can be done up to three (3) years following containment where failure would imperil a watershed or cause serious loss of downstream values.

The Western Regional Office is required to update National Fire Plan Operations & Reporting System quarterly and the Fort Apache Agency Superintendent is required to submit an accomplishment report to the National BAER Coordinator by September 15, 2011.

If you have any questions or need assistance on this matter, please contact Myron Hotinger, BAER Coordinator, BIA-NIFC at 208-387-5246 or Darryl Martinez, Tri-Regional BAER Coordinator at 505-331-3514.

cc: Darryl Martinez, BIA-NIFC Inter-Regional BAER Coordinator

Dalan Romero, BIA-NIFC Asst Director-Fire Operations

Maggie Moran, BIA-NIFC Budget Officer

bcc: BIA231:Surname:BIA231Chrono:BureauRF:Hold

BIA231:Mhotinger:5.24.2011:AdditionalLocustFireESfundingApproval5\_23\_2011.doc

208.387.5246

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# APPENDIX B – LIST OF B.A.E.R. TEAM MEMBERS AND CONTACTS

	OCITION	CODE	REGIONAL BURNED AF						FAV	E BABIL
	OSITION		NAME/AFFILIATION				HOME PHONE		FAX	E-MAIL
	eam Leader	BAEL	Darryl Martinez, BIA NIFC, Albuquerque	NMSWC	_		(505) 879-1811		(505) 563-3052	
	ep. Team Leader	BAEL			SW	(602) 379-6798			(602) 379-6826	
_	orester		Randy Fuller, Ph.D., BIA Ft. Apache Agency		SW	(928) 338-5304	(928) 521-0906			
	ydrologist	BAES	Bill Goodman, USFS R4 Ogden UT		EGB	(801) 625-5368		(435) 691-3778		wgoodman@fs.fed.us
Sc	oil Scientist (T)	BASS	Robert Hetzier, BIA, San Carlos Agency		SW	(928) 475-2326		(928) 812-0232		robert.hetzier@bia.gov
Hy	ydrologist (T)	BAHY	Gerd Von Glinskik, WMAT	AZFTA	SW	(928) 205-3569	(928) 338-5824	(928) 205-3569	(928) 330-3933	gvonglinski@wmat.us
Cı	ultural Specialist	BACS	Mark Altaha, Arch., WMAT	AZFTA	SW			(928) 338-3033		maltaha@wmat.us
Er	nv. Pro. Spec.	BAEN	Richard Powskey, BIA WRO	AZWEA	SW	(602) 379-6798	(602) 370-5273	(602) 321-7488	(480) 379-6798	richard.powskey@bia.gov
Cu Err Ge Ge	eo. Info. Spec.	GISS	Rachel Enfield, WMAT	AZFTA	SW	(928) 338-5417	(928) 338-1375	(928) 207-8861		rach_enfield@frontiernet.net
Ge	eologist	BAGE	Brian Rasmussen, NPS, Whiskeytown, CA	CAWUA	CA	(530) 242-3444		(530) 949-9838		brian.rasmussen@nps.gov
Ge	eo Info Specialist	GISS	Ida Rose Cosay, WMAT	AZFTA	SW	(928) 338-5417				ircosay@wmat.us
Ro	oads Engineer	BAEN	Michael Lomayaktewa, BIA, Ft. Apache Agency	AZFTA	SW	(928) 338-5486		(928) 205-9527		michael.lomayaktewa@bia.gov
	ydrologist	THSP	Lorri Peltz-Lewis, USFS, R5, Ogden, UT	CARO5	CA	(916) 640-1049		(916) 995-3107		ipeltzlewis@fs.fed.us
	eo. Info Spec. (T)	GISS	Anthony Thompson, BIA, Laguna Agency			916-640-1049				anthony.thompson@bia.gov
	perations		Keith Burnette, BIA WRO		SW	(602) 379-6798		(602) 317-6133		kburnette@bia.gov
	am Saftey		Waylon Truax, Saftey of Dams Engineer		SW	(928) 338-1404		(928) 266-4572		waylontruax@wmat.us
	nviro Prot Off		Terry hill, Enviormental Specialist, WMAT		SW	(928) 338-2484		(020) 200 1012	(928) 338-5195	thill@wmat.us
	&E		Cynthia Dale, Sensitive Species Coor., WMAT		SW	(928) 338-4385			(928) 338-1712	
	ribal Forest Mgr.		Jonathan Brooks, Forest Manager, WMAT		SW	(928) 338-1665			(520) 550 1/12	ibrooks@wmatforestry.com
	eavy Equip. Mgr.		Virgil Paxson, BIA, Roads		SW	(928) 338-5482		(928) 205-9524		Virgil.Paxson@bia.gov
	merg. Response	<b>-</b>	Shannon Tsosie, Emergency Response Coor., WMAT		SW	(928) 338-2641			(928) 338-1615	
	ribal PIO	<b> </b>	Gwendena Real Bird, Exec. Assit. To the Tribal Chariman		SW	(320) 330-2041		(320) 334-1000	(520) 550-1015	gwendena@wmat.us
	ribal PIO		Jerome Kasey, Exec. Assit. To the Vice Chairman		SW					jeromekasey@wmat.us
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+		-	Brenda Begay							
-	Al- O	-	Amos Tate	A 75TA	CVA					Cabia a Asshulata Obia as
	ire Air Operations	<del>                                     </del>	Sabino Archuleta, BIA, Aviation, Fort Apache	AZFTA	SW					Sabino.Archuleta@bia.gov
	re Mgt		John Cervantes, Fire, BIA, Fort Apache		SW					John.Cervantes@bia.gov
	ommunications	-	Thelma Dawahongva, Communications, BIA, Ft. Apache		SW					Thelma.Dawahongva@bia.gov
	elitack Operations		Marwin Dazen, Helitack, BIA, Fort Apache		SW					Marwin.Dazen@bia.gov
Pι	ulbic Information	BAIO	Candy Lupe, Fire Mgt. Specialist, PIO, BIA, Fort Apache	AZFTA	SW					Candy.Lupe@bia.gov
$\perp$			Manuel Dahkoshay							
	ire Mgt		Brian Quintero, Fire Mgt. SWFF, BIA, Fort Apache		SW					Brian.Quintero@bia.gov
Fi	ire Mgt		Ralph Thomas, Fire Mgt., Operations, BIA, Fort Apache	AZFTA	SW					Ralph.Thomas@bia.gov
			Trenton Prins							
	raining		Varnell Gatewood, Training, BIA, Fort Apache	AZFTA	SW	(928) 338-5481	(928) 338-1825	(928) 205-9523		varnellg@yahoo.com
Fo	orest Manager		Robert Lacapa, Forest Manager, BIA, Fort Apache	AZFTA	SW					Robert.LaCapa@bia.gov
Sι	uperintendent		Nona Tuchawena, Superintendent, BIA, Fort Apache	AZFTA	SW	(928) 338-5303				nona.tuchawena@bia.gov
Fi	ire Chief		Paul Kuehl, Fire Chief, WMAT	AZFTA	SW	(928) 338-1701	(928) 338-4881		(928) 338-1710	pkuehl@wmat.us
	huck Coplan		Wagon Wheel Roll Off			928-537-8913			928-537-5385	
	usty		American Fence Co. (Culverts)			928-537-5745			928-537-7474	
	ichard		Liberty Fence & Supply			928-537-3333			928-537-7721	
T			LT, Crew Leader						928-5946139	
			Darlene Beach, Crew Leader						928-594-2704	
Не	eavy Equip. Op.		Leo						928-594-3648	
	leterologist		Daryl J Onton, NOAA Weather Forecast Office ~ Flagstaff			(928) 556-9161			(928) 774-3914	daryl.onton@noaa.gov
	1eterologist		George howard, NOAA Warning Coordination Meterologis	t ~ Flagst:	aff	(928) 556-9161			(928) 774-3914	
	/MAT Land Ops		Al Brooks			(928) 338-1504		(928) 521-3647	(928) 338-1509	
	/MAT Land Ops		Jimmy Brownfeather, Water Ops			(928) 338-4825			(928) 338-3945	and the state of t
	ounty Gov	<del>                                     </del>	Tiffany S Ashworth, Grants Admin			(928) 524-4271			(928) 524-4052	tiffany.ashworth@navajocountyaz
			Trent Larson, Flood Control			(928) 524-4271				trant.larson@navajocountyaz.gov
C	ounty Gov		ment Laison, (1000 Control			(326) 324-438/		(320) 241-2104	(320) 324-4122	u anchaison@navajocountyaz.gov
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Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

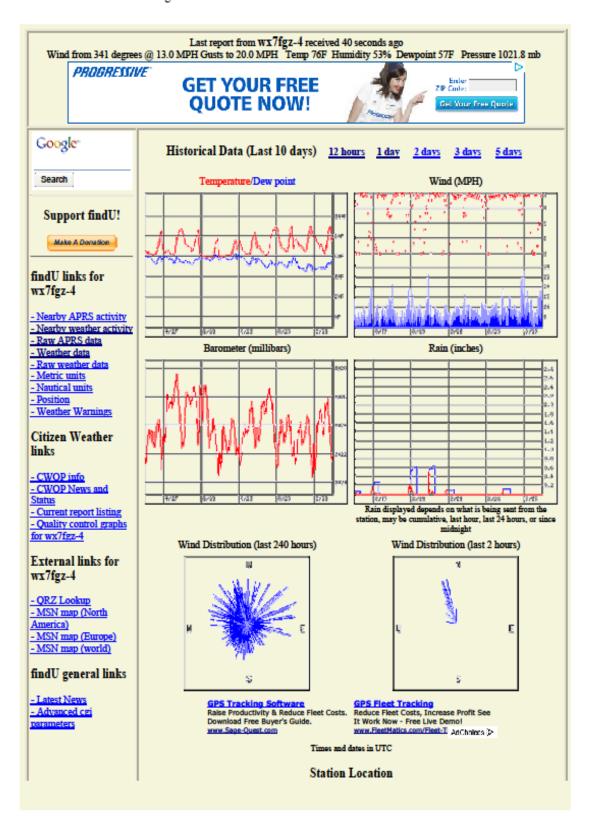
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# APPENDIX C - COMPLETED FUNDING NOTICE

#25J9 P.UUZ /U UN.14.2011 09:36 ACTION: R SCREEN: SPRJ USERID: VFOH SUBPROJECT REFERENCE TABLE KEY IS BFYS, FUND, DIV, ORG, PROGRAM, RETG, JOB \*\*\* SUB-PROJECT \*\*\* FUND DIV CRG PROGRAM RPTG JOB BEYS 2011 92500 92320 MAX AMOUNT: 600,000.00 FUNDS CONTROL IND: 8 STATUS IND: 0 EST REIM AMT: 0.00 PROJECT LEVEL JOB CODE: K11 DESCRIPTION: 2011 LOCUST FIRE ES \*\*\* SUBPROJECT-TO-DATE \*\*\* 0.00 BILLING ADJUST: 0.00 0.00 EXP ADJUST IN: 0.00 35,639.64 OBLIG ADJUST IN: 0.00 0.00 NET AVAIL BAL: 564,360.36 COMMITMENTS: OBLIGATIONS: EXPENDITURES: PROJ CHARGES: ACT REIM AMT: 0.00 < 112,600 DO DI

#### **APPENDIX D – Mobile Weather Station Print Out**

Weather Conditions At wx7fgz-4



http://www.findu.com/cgi-bin/wxpage.cgi?call=wx7fgz-4&last=240

8/25/2011

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011) **Document Number / Version Number: BAER 2011-1/1.0** 

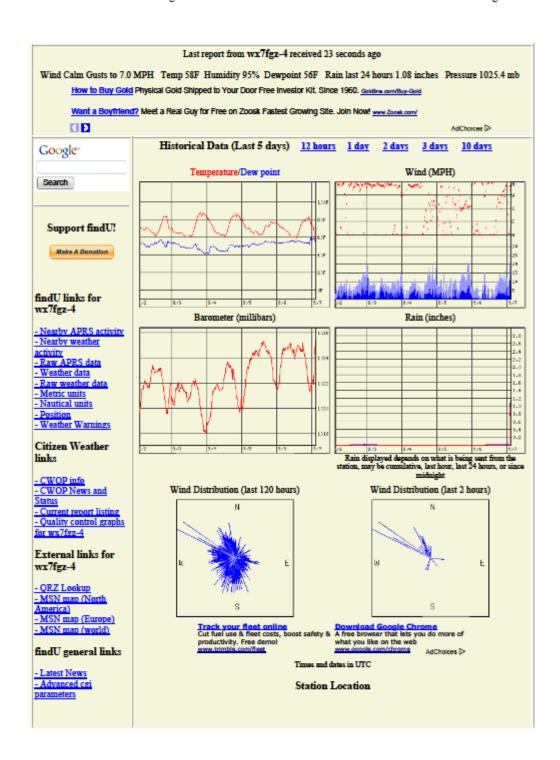


http://local.msn.com/bulletin.aspx?q=Pinetop-AZ&eid=211596&zip=85935

9/6/2011

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Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)



http://www.findu.com/cgi-bin/wxpage.cgi?call=wx7fgz-4



Villa Park, IL 60185 PO Box 5798

www.thesandbagger.com 800,770,7263 toll free 815.363.1400 815.876.8558 fax

Tim Vandergrift, President CONTACT PERSON:

Vehicle Multiple Award Schedule (VMAS) FSC Group: 23, Part V FSC: 3895

Equipment Used to Fill Sandbags Contract Number: GS-30F-0005K Special Item # (SIN) 272-105 New Technologies



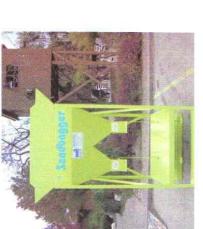
The Sandbagger Model II NSN # 3895-01-399-5890 Motorized Auger GSA Price \$ 16,768.73



The Sandbagger Multibagger NSN # 3895-01-460-4545 **GSA Price \$ 23,675.85** Model MB-3



Model C-2T Towing Package The Sandbagger Trailbagger NSN # 3895-01-460-4548 **GSA Price \$ 3,136.27** 





The Sandbagger Model I NSN # 3895-01-399-5889 GSA Price \$ 7.280.58 GF Gravity Fed

Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

The Sandbagger Model GF 2

NSN # 3895-01-460-3910 Gravity Fed 2 Chute

# **APPENDIX F – Specification Photographs**



# **Specification 3**

Closed grate would plug with debris if allowed to remain in place.

Culvert grate covering removed 7/15/2011

Culvert under Highway 73 at Mulberry Ave.



On 7/20/2011 and 8/19 & 8/20/2011 flows would have been blocked by grate and resulted in flooding of Highway 73.

Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)



Structural Protection
Sand bagging



Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)



**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# Specification 3 ~ K-rail installation



# **Specification 4** ~ Floatable Debris Removal



Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# **Specification 5 ~ Culvert and Ditch Cleaning (BIA)**



**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

### Specification 6 ~ Culvert Replacement



Replacing a culvert...such as the one located at the end of the shovel on the preceding page.

# **Specification 7 ~ Culvert Cleaning (ADOT)**

This 48" culvert under Highway 73 runs from Locust St. down to the river... total run of about 400 feet. This took ADOT contractors three days to clean out.

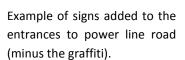


Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# Specification 8 ~ Signage



Existing Highway 73 sign





**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# **Specification 9 ~ Road Debris Maintenance**



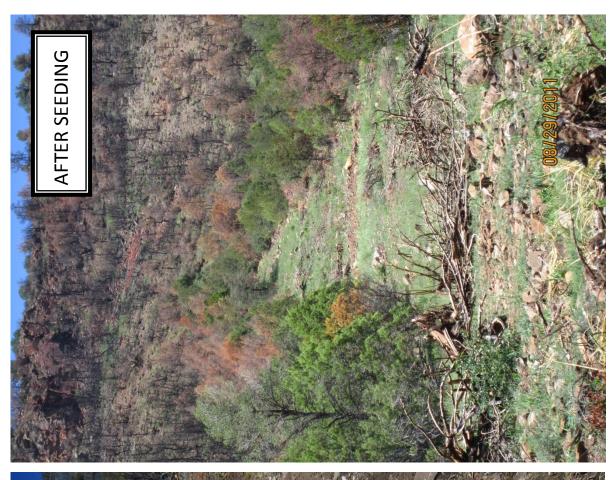


Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

# Specification 10 ~ Aerial Seeding



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**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)





**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)



Behind k-rail right after installation

Behind k-rail after 9/6/2011 storm. Too much rock and sediment.



Solution after 9/6/2011 storm to remove rock/sediment and aid in drainage.

**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)



**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)



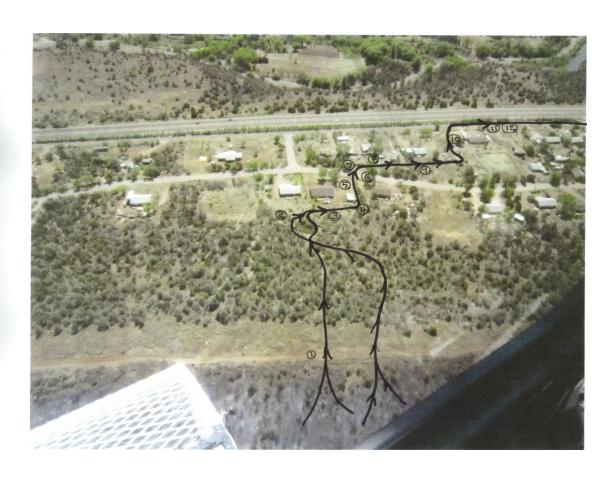
After first small storm: Notice pipe and cap in foreground. Before fire the hydrant was fully visible.



Same location after 4<sup>th</sup> storm: Note pipe and cap in foreground..but missing fire hydrant under the mud.

Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

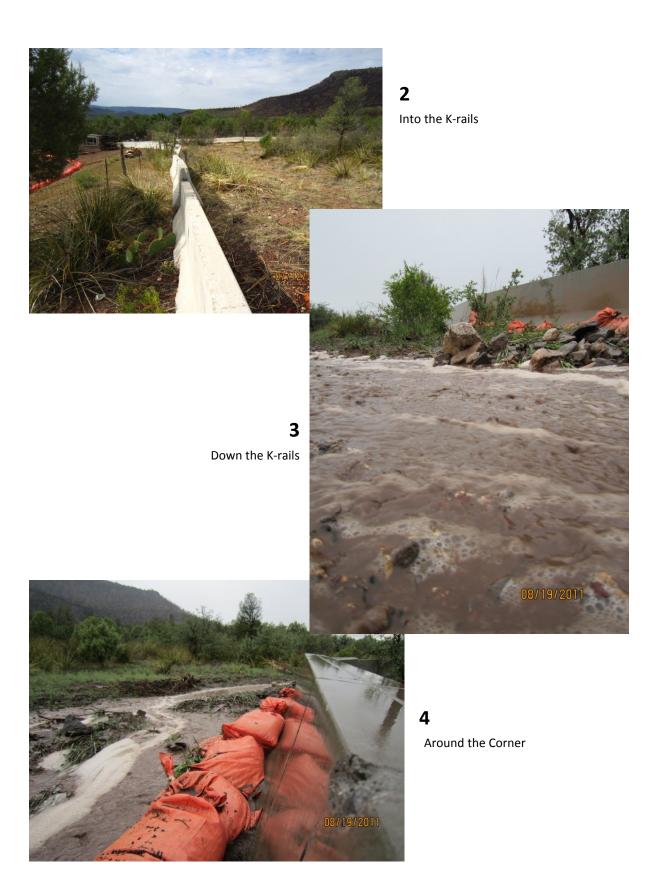
# **APPENDIX G - Sample Flow Control**



Off the Fire &
Across Power line Rd.



**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)



**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011) **Document Number / Version Number: BAER 2011-1/1.0** 





**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011) **Document Number / Version Number: BAER 2011-1/1.0** 



**7**Over the Embankment

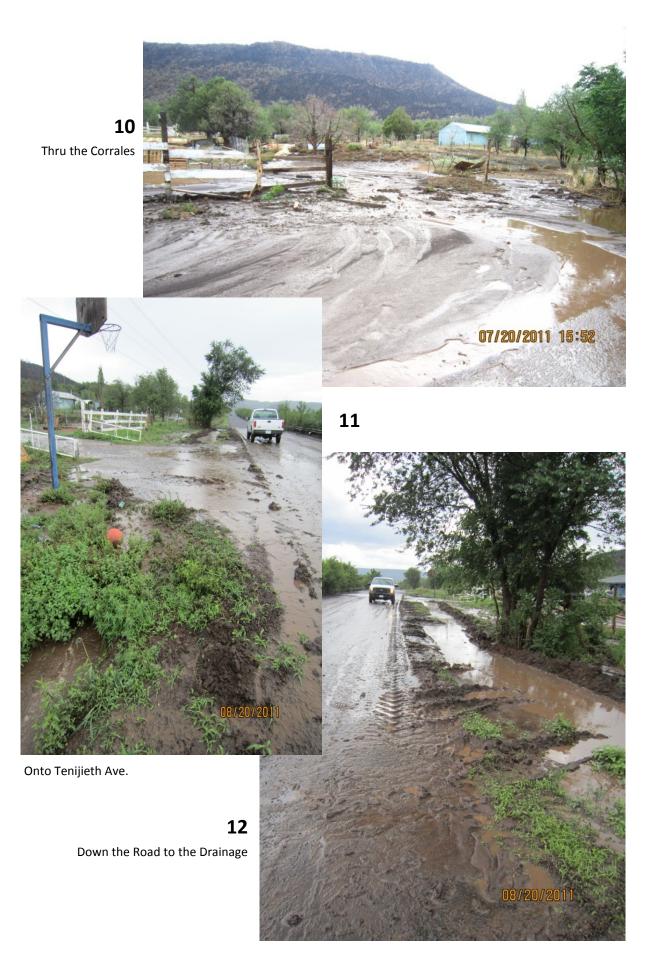




Down the Sandbags



Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)



**Project Name:** Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011) **Document Number / Version Number: BAER 2011-1/1.0** 



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Across the Highway at Mulberry Ave.





Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

### **APPENDIX H – National Weather Service Mobile Station**

Solar remote NWS station installed on August 4, 2011



Project Name: Locust Fire B.A.E.R. Accomplishment Report (Year One: 2011)

### **APPENDIX I - DETAILED PROJECT BALANCE SHEET**

Owner	B.A.E.R. Planning Team	BAER	Statu	s In P	rogress	
Category	(3) Budgeting		Start	Date		5/24/2011
Priority	(1) High		End Date			5/31/2011
Title		Due Date Assig	ned To	Status	Cost	Cost in Days
Plan Preparation		5/24/2011 B.A.E	.R. Planning Team BA	Completed	\$112,688.00	
			Budget in Days	0.00	Budget	\$112,688.00
			Cost in Days	0.00	Cost	\$112,688.00
			Balance	0.00	Balance	\$0.00
Project Nan	ne 2 Implemer	ntation Leader (\	(ear 1)			
Owner	Lloyd "Randy" Fuller		Statu	s In P	rogress	
Category	(1) Implementation		Start	Date		5/24/2011
Priority	(1) High		End D	ate		5/24/2014
Title		Due Date Assig	ned To	Status	Cost	Cost in Days
Payroll		6/16/2011 Lloyd	"Randy" Fuller	In Progress	\$1,662.38	0.00
Payroll		6/26/2011 Lloyd	"Randy" Fuller	In Progress	\$1,684.54	0.00
Payroll		7/2/2011 Lloyd	"Randy" Fuller	In Progress	\$1,728.87	0.00
Payroll		7/9/2011 Lloyd	"Randy" Fuller	In Progress	\$2,172.17	0.00
Payroll		7/16/2011 Lloyd	"Randy" Fuller	In Progress	\$1,174.75	0.00
Payroll		7/23/2011 Lloyd	"Randy" Fuller	In Progress	\$509.80	0.00
Payroll		7/30/2011 Lloyd	"Randy" Fuller	In Progress	\$443.30	0.00
Payroll		8/6/2011 Lloyd	"Randy" Fuller	In Progress	\$398.97	0.00
Payroll		8/13/2011 Lloyd	"Randy" Fuller	In Progress	\$0.00	0.00
Payroll		8/20/2011 Lloyd	•	In Progress	\$908.77	0.00
Payroll		8/27/2011 Lloyd		In Progress	\$418.92	0.00
Payroll		9/11/2011 Lloyd	"Randy" Fuller	In Progress	\$509.80	0.00
			Budget in Days	0.00	Budget	\$21,130.00

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Balance

0.00 Balance

\$9,517.73

### Project Name 3 Structural Protection (Year 1)

 Owner
 Lloyd "Randy" Fuller
 Status
 In Progress

 Category
 (1) Implementation
 Start Date
 6/13/2011

 Priority
 (1) High
 End Date
 5/24/2014

Payroll To Paint Sandbags   Not Started   \$0.00   0.00					
Paint sprayer (RSC)	Title	Due Date Assigned To	Status	Cost	Cost in Days
Generator to run sprayer         Not Started         \$0.00         0.00           Extension cord for sprayer         Not Started         \$0.00         0.00           10,000 Sandbags         \$/25/2011 Lloyd "Randy" Fuller         Completed         \$3,013.36         0.00           2 Fork Lifts for K-rails         6/7/2011 Lloyd "Randy" Fuller         Completed         \$5,764.00         0.00           Purchase Sandbagger         6/13/2011 Lloyd "Randy" Fuller         Completed         \$4,188.57         0.00           Repair BIA Roads Loader         6/15/2011 Lloyd "Randy" Fuller         Completed         \$2,359.49         0.00           Payroll         6/19/2011 Lloyd "Randy" Fuller         Completed         \$12,310.84         0.00           Payroll         6/19/2011 Lloyd "Randy" Fuller         Completed         \$12,310.84         0.00           Payroll         6/26/2011 Lloyd "Randy" Fuller         Completed         \$14,361.57         0.00           Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         \$14,361.57         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00           Payroll         7/19/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00	Payroll To Paint Sandbags		Not Started	\$0.00	0.00
Extension cord for sprayer         Not Started         5,00         0.00           10,000 Sandbags         5/25/2011 Lloyd "Randy" Fuller         Completed         53,013.36         0.00           2 Fork Lifts for K-rails         6/7/2011 Lloyd "Randy" Fuller         Completed         55,764.00         0.00           Purchase Sandbagger         6/13/2011 Lloyd "Randy" Fuller         Completed         54,188.57         0.00           Repair BlA Roads Loader         6/15/2011 Lloyd "Randy" Fuller         Completed         52,359.49         0.00           Payroll         6/19/2011 Lloyd "Randy" Fuller         Completed         512,310.84         0.00           72,000 Sandbags         6/22/2011 Lloyd "Randy" Fuller         Completed         512,310.84         0.00           Payroll         6/26/2011 Lloyd "Randy" Fuller         Completed         514,361.57         0.00           Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         514,361.57         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         514,361.57         0.00           Payroll         7/3/2011 Lloyd "Randy" Fuller         Completed         514,361.57         0.00           Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         5273.64 <td>Paint sprayer (RSC)</td> <td></td> <td>Not Started</td> <td>\$0.00</td> <td>0.00</td>	Paint sprayer (RSC)		Not Started	\$0.00	0.00
10,000 Sandbags	Generator to run sprayer		Not Started	\$0.00	0.00
2 Fork Lifts for K-rails         6/7/2011 Lloyd "Randy" Fuller         Completed         55,764.00         0.00           Purchase Sandbagger         6/13/2011 Lloyd "Randy" Fuller         Completed         54,188.57         0.00           Repair BIA Roads Loader         6/15/2011 Lloyd "Randy" Fuller         Completed         52,359.49         0.00           Payroll         6/19/2011 Lloyd "Randy" Fuller         Completed         512,310.84         0.00           72,000 Sandbags         6/22/2011 Lloyd "Randy" Fuller         Completed         520,520.00         0.00           Payroll         6/26/2011 Lloyd "Randy" Fuller         Completed         514,361.57         0.00           Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         514,361.57         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         514,361.57         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         511,956.09         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         510,027.86         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         Completed         527.3.64         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller	Extension cord for sprayer		Not Started	\$0.00	0.00
Purchase Sandbagger         6/13/2011 Lloyd "Randy" Fuller         Completed         \$4,188.57         0.00           Repair BIA Roads Loader         6/15/2011 Lloyd "Randy" Fuller         Completed         \$2,359.49         0.00           Payroll         6/19/2011 Lloyd "Randy" Fuller         Completed         \$12,310.84         0.00           72,000 Sandbags         6/22/2011 Lloyd "Randy" Fuller         Completed         \$20,520.00         0.00           Payroll         6/26/2011 Lloyd "Randy" Fuller         Completed         \$14,361.57         0.00           Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         \$49.80         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         \$11,956.09         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$273.64         0.00           Sand from Perkins Clinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All in Safety)         7/15/2011 Lloyd "Randy" Fuller	10,000 Sandbags	5/25/2011 Lloyd "Randy" Fuller	Completed	\$3,013.36	0.00
Repair BIA Roads Loader         6/15/2011 Lloyd "Randy" Fuller         Completed         \$2,359.49         0.00           Payroll         6/19/2011 Lloyd "Randy" Fuller         Completed         \$12,310.84         0.00           72,000 Sandbags         6/22/2011 Lloyd "Randy" Fuller         Completed         \$20,520.00         0.00           Payroll         6/26/2011 Lloyd "Randy" Fuller         Completed         \$14,361.57         0.00           Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         \$49.80         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         \$11,956.09         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$11,956.09         0.00           Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         \$27.64         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller <td>2 Fork Lifts for K-rails</td> <td>6/7/2011 Lloyd "Randy" Fuller</td> <td>Completed</td> <td>\$5,764.00</td> <td>0.00</td>	2 Fork Lifts for K-rails	6/7/2011 Lloyd "Randy" Fuller	Completed	\$5,764.00	0.00
Payroll         6/19/2011 Lloyd "Randy" Fuller         Completed         \$12,310.84         0.00           72,000 Sandbags         6/22/2011 Lloyd "Randy" Fuller         Completed         \$20,520.00         0.00           Payroll         6/26/2011 Lloyd "Randy" Fuller         Completed         \$14,361.57         0.00           Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         \$49.80         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         \$11,956.09         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00           Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         \$273.64         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$2,262.26         0.00           Payroll         7/16/2011 Lloyd "Randy" Full	Purchase Sandbagger	6/13/2011 Lloyd "Randy" Fuller	Completed	\$4,188.57	0.00
72,000 Sandbags         6/22/2011 Lloyd "Randy" Fuller         Completed         \$20,520.00         0.00           Payroll         6/26/2011 Lloyd "Randy" Fuller         Completed         \$14,361.57         0.00           Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         \$49.80         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         \$11,956.09         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00           Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         \$273.64         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$26,160.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll Skid Steer for sand         7/21/201	Repair BIA Roads Loader	6/15/2011 Lloyd "Randy" Fuller	Completed	\$2,359.49	0.00
Payroll         6/26/2011 Lloyd "Randy" Fuller         Completed         \$14,361.57         0.00           Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         \$49.80         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         \$11,956.09         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00           Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         \$273.64         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,2628.26         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$2,2628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Payroll         7/23/2011	Payroll	6/19/2011 Lloyd "Randy" Fuller	Completed	\$12,310.84	0.00
Larry's Repair of Trailer         6/27/2011 Lloyd "Randy" Fuller         Completed         \$49.80         0.00           Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         \$11,956.09         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00           Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         \$273.64         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All in Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$6,160.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$12,628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011	72,000 Sandbags	6/22/2011 Lloyd "Randy" Fuller	Completed	\$20,520.00	0.00
Payroll         7/2/2011 Lloyd "Randy" Fuller         Completed         \$11,956.09         0.00           Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00           Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         \$273.64         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$6,160.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$12,628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$3,004.72         0.00           Payroll         8/22/2011 Lloyd "Randy" Fuller	Payroll	6/26/2011 Lloyd "Randy" Fuller	Completed	\$14,361.57	0.00
Payroll         7/9/2011 Lloyd "Randy" Fuller         Completed         \$10,027.86         0.00           Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         \$273.64         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$6,160.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$12,628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$3,004.72         0.00           Payroll         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         8/27/2011 Gerd VonGlinski	Larry's Repair of Trailer	6/27/2011 Lloyd "Randy" Fuller	Completed	\$49.80	0.00
Fuel for 2 fork lifts         7/13/2011 Lloyd "Randy" Fuller         Completed         \$273.64         0.00           Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$6,160.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$12,628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Paint for Sandbags         8/1/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         9/1/2	Payroll	7/2/2011 Lloyd "Randy" Fuller	Completed	\$11,956.09	0.00
Sand from Perkins Cinders         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$23,053.82         0.00           Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$6,160.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$12,628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Paint for Sandbags         8/1/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         9/21/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated)	Payroll	7/9/2011 Lloyd "Randy" Fuller	Completed	\$10,027.86	0.00
Sand from WMAT Land Ops         7/15/2011 Lloyd "Randy" Fuller         In Progress         \$10,344.76         0.00           8,000 sandbags (All In Safety)         7/15/2011 Lloyd "Randy" Fuller         Completed         \$1,327.00         0.00           Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$6,160.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$12,628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Paint for Sandbags         8/1/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$236.47         0.00           Dump Truck (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Excavator (estimated)         9/24/20	Fuel for 2 fork lifts	7/13/2011 Lloyd "Randy" Fuller	Completed	\$273.64	0.00
8,000 sandbags (All In Safety)       7/15/2011 Lloyd "Randy" Fuller       Completed       \$1,327.00       0.00         Native Transport Bus Service       7/15/2011 Lloyd "Randy" Fuller       Completed       \$6,160.00       0.00         Payroll       7/16/2011 Lloyd "Randy" Fuller       Completed       \$12,628.26       0.00         Use of Tribal Skid Steer for sand       7/21/2011 Lloyd "Randy" Fuller       Completed       \$2,915.00       0.00         Payroll       7/23/2011 Lloyd "Randy" Fuller       Completed       \$4,298.59       0.00         Payroll       8/1/2011 Lloyd "Randy" Fuller       In Progress       \$3,004.72       0.00         Payroll       8/20/2011 Gerd VonGlinski       In Progress       \$800.36       0.00         Payroll       8/27/2011 Gerd VonGlinski       In Progress       \$236.47       0.00         Payroll       9/11/2011 Lloyd "Randy" Fuller       In Progress       \$3,792.15       0.00         Dump Truck (estimated)       9/24/2011 Lloyd "Randy" Fuller       Not Started       \$2,500.00       0.00         Excavator (estimated)       9/24/2011 Lloyd "Randy" Fuller       Not Started       \$2,500.00       0.00	Sand from Perkins Cinders	7/15/2011 Lloyd "Randy" Fuller	In Progress	\$23,053.82	0.00
Native Transport Bus Service         7/15/2011 Lloyd "Randy" Fuller         Completed         \$6,160.00         0.00           Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$12,628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Paint for Sandbags         8/1/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         8/27/2011 Gerd VonGlinski         In Progress         \$236.47         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Sand from WMAT Land Ops	7/15/2011 Lloyd "Randy" Fuller	In Progress	\$10,344.76	0.00
Payroll         7/16/2011 Lloyd "Randy" Fuller         Completed         \$12,628.26         0.00           Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Paint for Sandbags         8/1/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         8/27/2011 Gerd VonGlinski         In Progress         \$236.47         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	8,000 sandbags (All In Safety)	7/15/2011 Lloyd "Randy" Fuller	Completed	\$1,327.00	0.00
Use of Tribal Skid Steer for sand         7/21/2011 Lloyd "Randy" Fuller         Completed         \$2,915.00         0.00           Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Paint for Sandbags         8/1/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         8/27/2011 Gerd VonGlinski         In Progress         \$236.47         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Native Transport Bus Service	7/15/2011 Lloyd "Randy" Fuller	Completed	\$6,160.00	0.00
Payroll         7/23/2011 Lloyd "Randy" Fuller         Completed         \$4,298.59         0.00           Paint for Sandbags         8/1/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         8/27/2011 Gerd VonGlinski         In Progress         \$236.47         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$7,000.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Payroll	7/16/2011 Lloyd "Randy" Fuller	Completed	\$12,628.26	0.00
Paint for Sandbags         8/1/2011 Lloyd "Randy" Fuller         In Progress         \$3,004.72         0.00           Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         8/27/2011 Gerd VonGlinski         In Progress         \$236.47         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$7,000.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Use of Tribal Skid Steer for sand	7/21/2011 Lloyd "Randy" Fuller	Completed	\$2,915.00	0.00
Payroll         8/20/2011 Gerd VonGlinski         In Progress         \$800.36         0.00           Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         8/27/2011 Gerd VonGlinski         In Progress         \$236.47         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$7,000.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Payroll	7/23/2011 Lloyd "Randy" Fuller	Completed	\$4,298.59	0.00
Emergency Repair Tractor         8/22/2011 Lloyd "Randy" Fuller         Completed         \$261.03         0.00           Payroll         8/27/2011 Gerd VonGlinski         In Progress         \$236.47         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$7,000.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Paint for Sandbags	8/1/2011 Lloyd "Randy" Fuller	In Progress	\$3,004.72	0.00
Payroll         8/27/2011 Gerd VonGlinski         In Progress         \$236.47         0.00           Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$7,000.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Payroll	8/20/2011 Gerd VonGlinski	In Progress	\$800.36	0.00
Payroll         9/11/2011 Lloyd "Randy" Fuller         In Progress         \$3,792.15         0.00           Dump Truck (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$7,000.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Emergency Repair Tractor	8/22/2011 Lloyd "Randy" Fuller	Completed	\$261.03	0.00
Dump Truck (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00           Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$7,000.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Payroll	8/27/2011 Gerd VonGlinski	In Progress	\$236.47	0.00
Payroll (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$7,000.00         0.00           Excavator (estimated)         9/24/2011 Lloyd "Randy" Fuller         Not Started         \$2,500.00         0.00	Payroll	9/11/2011 Lloyd "Randy" Fuller	In Progress	\$3,792.15	0.00
Excavator (estimated) 9/24/2011 Lloyd "Randy" Fuller Not Started \$2,500.00 0.00	Dump Truck (estimated	9/24/2011 Lloyd "Randy" Fuller	Not Started	\$2,500.00	0.00
	Payroll (estimated)	9/24/2011 Lloyd "Randy" Fuller	Not Started	\$7,000.00	0.00
Tribal Payments 9/30/2011 Lloyd "Randy" Fuller In Progress \$7,671.83 0.00	Excavator (estimated)	9/24/2011 Lloyd "Randy" Fuller	Not Started	\$2,500.00	0.00
	Tribal Payments	9/30/2011 Lloyd "Randy" Fuller	In Progress	\$7,671.83	0.00

Budget in Days	0.00 Budget	\$191,840.00
Cost in Days	0.00 Cost	\$173,319.21

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## Balance 0.00 Balance \$18,520.79

### Project Name 4 Floatable Debris Removal (Year 1)

 Owner
 Lloyd "Randy" Fuller
 Status
 In Progress

 Category
 (1) Implementation
 Start Date
 6/13/2011

Priority (1) High End Date 7/15/2011

Title	Due Date Assigned To	Status	Cost	Cost in Days
Labor Payroll (10manx5days)	7/15/2011 Lloyd "Randy" Fuller	Completed	\$12,500.00	0.00
Terry Hill Payroll	7/15/2011 Lloyd "Randy" Fuller	Completed	\$742.00	0.00
Wagon Wheel Roll-Offs	7/15/2011 Lloyd "Randy" Fuller	Completed	\$4,761.00	0.00
WMAT Solid Waste Dumpster	7/15/2011 Lloyd "Randy" Fuller	Completed	\$1,313.25	0.00
Port-O-John	7/15/2011 Lloyd "Randy" Fuller	Completed	\$1,064.00	0.00
WMAT Solid Waste Dumpster	7/31/2011 Lloyd "Randy" Fuller	Completed	\$1,802.50	0.00
Repair of Fence (WagonWheel)	8/22/2011 Lloyd "Randy" Fuller	In Progress	\$893.00	0.00
Tribal Payments	9/30/2011 Lloyd "Randy" Fuller	In Progress	\$1,084.90	0.00

Budget in Days	0.00	Budget	\$76,256.00
Cost in Days	0.00	Cost	\$24,160.65
D-I	0.00	D-I	CE2 005 25

### Project Name 5 Culvert and Ditch Cleaning (Year 1)

 Owner
 Lloyd "Randy" Fuller
 Status
 In Progress

 Category
 (1) Implementation
 Start Date
 6/13/2011

 Priority
 (1) High
 End Date
 7/15/2011

Title	Due Date Assigned To	Status	Cost	Cost in Days
Repair of BIA Road Grader	6/17/2011 Lloyd "Randy" Fuller	In Progress	\$83.38	0.00
Tribal Payroll	7/1/2011 Lloyd "Randy" Fuller	In Progress	\$6,250.00	0.00
Use of Tribal BackHoe	7/1/2011 Lloyd "Randy" Fuller	In Progress	\$0.00	0.00
Tribal Payments	9/30/2011 Lloyd "Randy" Fuller	In Progress	\$1,084.90	0.00

Budget in Days	0.00	Budget	\$47,060.00
Cost in Days	0.00	Cost	\$7,418.28
Balance	0.00	Balance	\$39,641.72



# Project Name 8 Flood Hazard Signs (Year 1) Owner Lloyd "Randy" Fuller

 Category
 (1) Implementation
 Start Date
 5/24/2011

 Priority
 (1) High
 End Date
 8/1/2011

Status

Title	Due Date Assigned To	Status	Cost	Cost in Days
Labor To Install Signs & Posts	Lloyd "Randy" Fuller	Not Started	\$0.00	0.00
CenterLine Supply 5 signs	7/31/2011 Lloyd "Randy" Fuller	In Progress	\$1,610.00	0.00

Budget in Days	0.00	Budget	\$4,650.00
Cost in Days	0.00	Cost	\$1,610.00
Delenes	0.00	Delenes	¢2.040.00

In Progress

### Project Name 9 Road Debris Removal (Year 1)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (2) Monitoring
 Start Date
 5/24/2011

 Priority
 (2) Normal
 End Date
 5/24/2014

Title	Due Date Assigned To	Status	Cost	Cost in Days
BIA Road Debris Removal	BIA Roads	Deferred	\$0.00	0.00

Budget in Days	0.00	Budget	\$10,567.00
Cost in Days	0.00	Cost	\$0.00
Deleges	0.00	Deleves	\$40 E67 00

### Project Name 10 Aerial Seeding (Year 1)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (1) Implementation
 Start Date
 7/3/2011

 Priority
 (2) Normal
 End Date
 7/10/2011

Title	Due Date Assigned To	Status	Cost (	Cost in Days
Helicopter Contract & Seeder	7/17/2011 Lloyd "Randy" Fuller	Completed	\$8,593.40	0.00
Type I Tender for dust control	7/22/2011 Lloyd "Randy" Fuller	Completed	\$2,420.00	0.00

Budget in Days	0.00	Budget	\$22,100.00
Cost in Days	0.00	Cost	\$11,013.40
Balance	0.00	Balance	\$11,086.60

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### Project Name 13 Implementation Leader (Year 2)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (1) Implementation
 Start Date
 5/24/2012

 Priority
 (1) High
 End Date
 9/30/2012

Budget in Days	0.00	Budget	\$0.00
Cost in Days	#Error	Cost	#Error
Palance	#Error	Palanco	#Error

### Project Name 16 Culvert and Ditch Cleaning (Year 2)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (1) Implementation
 Start Date
 6/13/2011

 Priority
 (1) High
 End Date
 7/15/2011

Title	Due Date Assigned To	Status	Cost Cost in	Days
Culvert and Ditch Cleaning (2)		Not Started	\$0.00	0.00

Budget in Days	0.00	Budget	\$0.00
Cost in Days	0.00	Cost	\$0.00
Balance	0.00	Balance	\$0.00

### Project Name 20 Road Debris Removal (Year 2)

Owner Lloyd "Randy" Fuller Status in Progress

 Category
 (2) Monitoring
 Start Date
 5/24/2011

 Priority
 (2) Normal
 End Date
 5/24/2014

Budget in Days	0.00	Budget	\$0.00
Cost in Days	#Error	Cost	#Error
Balance	#Error	Balance	#Error

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### Project Name 22 Aerial Seeding Monitoring (Year 2)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (2) Monitoring
 Start Date
 7/10/2011

 Priority
 (2) Normal
 End Date
 5/24/2014

Budget in Days	0.00	Budget	\$0.00
Cost in Days	#Error	Cost	#Error
Balanco	#Error	Palanco	#Error

### Project Name 24 Implementation Leader (Year 3)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (1) Implementation
 Start Date
 5/24/2011

 Priority
 (1) High
 End Date
 5/24/2014

Budget in Days	0.00	Budget	\$0.00
Cost in Days	#Error	Cost	#Error
Balance	#Error	Balance	#Error

### Project Name 25 Structural Protection (Year 3)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (1) Implementation
 Start Date
 6/13/2011

 Priority
 (1) High
 End Date
 5/24/2014

Budget in Days	0.00	Budget	\$0.00
Cost in Days	#Error	Cost	#Error
Ralance	#Frror	Ralance	#Frror

### Project Name 27 Culvert and Ditch Cleaning (Year 3)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (1) Implementation
 Start Date
 6/13/2011

 Priority
 (1) High
 End Date
 7/15/2011

Budget in Days	0.00	Budget	\$0.00
Cost in Days	#Error	Cost	#Error
Balance	#Error	Balance	#Error

### Project Name 33 Aerial Seeding Monitoring (Year 3)

Owner Lloyd "Randy" Fuller Status In Progress

 Category
 (2) Monitoring
 Start Date
 7/10/2011

 Priority
 (2) Normal
 End Date
 5/24/2014

Budget in Days	0.00	Budget	\$0.00
Cost in Days	#Error	Cost	#Error
Balance	#Error	Balance	#Error