



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 1

1. Call to Order and Roll Call

Chairman Hernandez called the Regular Board Meeting to order at 10:04 a.m., Thursday, July 24, 2008. Roll was noted as follows:

Directors present:	Chairman Danny Hernandez Director Tim Eichenberg Director Ronald D. Brown Director Daniel Lyon
Directors excused:	Director Janet Saiers
Others present:	John Kelly, Executive Engineer Brian Colón, Attorney Staff Other attendees on file at AMAFCA

A quorum was present.

2. Approval of Agenda

Director Brown made a motion to approve the agenda. Director Lyon seconded the motion, which passed (4-0).

Mr. Kelly stated that there had been a late mailout on agenda item 18b, and there were two handouts on agenda item 10.

3. Meetings Scheduled

- a. August 21, 2008, 10:00 a.m. – Regular Meeting
- b. September 25, 2008, 10:00 a.m. – Regular Meeting
- c. October 23, 2008, 10:00 a.m. – Regular Meeting
- d. November 20, 2008, 10:00 a.m. – Regular Meeting
- e. Field Trip, North Diversion Channel Outfall and Montañño Gap Levee – TBD

Director Lyon stated he would be unavailable on August 21, 2008. Director Eichenberg stated he had received an email from Director Saiers stating she had no objection to moving the meeting back to August 28th. After brief discussion, the Board decided to move the August Board meeting back to its original date of 10:00 a.m. on August 28, 2008.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 2

Director Eichenberg made a motion that the August Board meeting be moved to August 28, 2008, at 10:00 a.m. Director Lyon seconded the motion, which passed (4-0).

The meeting schedule, as revised is:

- a. August 28, 2008, 10:00 a.m. – Regular Meeting**
- b. September 25, 2008, 10:00 a.m. – Regular Meeting**
- c. October 23, 2008, 10:00 a.m. – Regular Meeting**
- d. November 20, 2008, 10:00 a.m. – Regular Meeting**

Rather than setting a Special Meeting for the Field Trip to the North Diversion Channel Outfall and Montaña Gap Levee, the Board determined that the Directors would each visit the sites with Mr. Kelly and Jerry Lovato, AMAFCA Drainage Engineer, in small groups of one or two. This would be accomplished by the August Board meeting. All agreed the field visits were important. Mr. Kelly stated the field visits to both sites could be accomplished in about two hours. Director Eichenberg suggested walking a portion of each site to get the full impact of the sites.

4. Approval of Minutes

- a. June 26, 2008**

Chairman Hernandez requested that the phrase, "with the concurrence of the Board," be added to the second paragraph on page seven, just before the phrase "Chairman Hernandez decided...."

Director Brown made a motion to approve the minutes of the June 26, 2008 Regular Board Meeting, as amended by Chairman Hernandez. Director Eichenberg seconded the motion, which passed (4-0).

5. Financial Matters

- a. Approval of June 2008 Expenditures**

Irene Jeffries, AMAFCA Business Manager, presented the June 2008 Expenditure Report.

In response to questions from Director Eichenberg about the invoices from Robles, Rael & Anaya, Ms. Jeffries stated that upon receipt of their invoices, the invoice is split based upon tasks done which should be charged to the Operating Fund, and those charged to the Construction Fund.

In response to a comment from Director Eichenberg, she stated that in the future she will indicate the monthly billing paid on the Construction Fund check register and report, as it is on the



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 3

Operating Fund check register and report. Mr. Colón indicated that the invoices from Robles, Rael & Anaya had all been paid in a timely manner.

Mr. Kelly noted that Operating Fund checks are cut twice a month, on the fifth and twentieth. Construction Fund checks are cut on the tenth. Invoices are paid from the appropriate account in the next check run after they have been received.

Director Eichenberg made a motion to approve the June 2008 Expenditure Report. Director Brown seconded the motion, which passed (4-0).

b. Investment Report for June 2008

For information. Ms. Jeffries stated that she had closed out the special account for the GRIP Drainage Improvements with the state, and added a special account for the Agency/Area-Wide Flood Control Maintenance project. There were no questions regarding the Investment Report.

c. Financial Recap June 16, 2008, through July 15, 2008

For information.

d. Financial Forecast July 16, 2008, through August 15, 2008

Ms. Jeffries presented the Financial Forecast for the period July 16, 2008, through August 15, 2008. She noted that the Forecast now includes the Agency/Area-Wide Flood Control Maintenance special account. The Forecast for the Debt Service account includes a principal and interest payment on bonds on August 1, 2008.

Mr. Kelly noted that the starting balance in the Agency/Area-Wide Flood Control Maintenance special account includes the initial contributions from AMAFCA and the City of Albuquerque. The payment from the New Mexico Department of Transportation was being processed and was expected within two weeks.

Director Lyon made a motion to approve the Financial Forecast. Director Eichenberg seconded the motion, which passed (4-0).

e. Acceptance of Inventories

Ms. Jeffries presented the Office Inventories (a separate inventory for items valued \$5,000 and greater at time of purchase, and one for those valued under \$5,000 at time of purchase), and the Maintenance Inventories (a separate inventory for items valued \$5,000 and greater at time of purchase, and one for those valued under \$5,000 at time of purchase).



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 4

Larry Trujillo, Maintenance Superintendent, had certified that all items on the Maintenance Inventories had been accounted for. Ms. Jeffries certified that all items on the Office Inventories had been accounted for. She stated that four metal folding chairs that were damaged beyond repair had been disposed of by the Executive Engineer prior to the New Mexico Self Insurers' OSHA inspection, and she had adjusted the quantity on the inventory to reflect the changed number of folding chairs.

Ms. Jeffries noted that there were several older items valued at less than \$100 at the time of purchase. She stated that, with the Board's permission, she would like to come back to the Board at a later meeting with a request to remove those items from the inventory. This will provide ample time to notify the State Auditor of AMAFCA's intentions.

Director Brown made a motion that the Board accept the Inventory Lists as of June 30, 2008, as presented. Director Eichenberg seconded the motion, which passed (4-0).

6. Personnel Matters – Notice of Promotion of Crew Member to Maintenance Worker Welder Position

Mr. Kelly stated that a Maintenance Truck Driver had been promoted to fill the Maintenance Worker Welder position left vacant upon the former Welder's promotion. As there was an immediate need, the promotion was made before the Board was notified, with the Chairman's concurrence. The resulting vacancy for a Maintenance Worker Driver is being advertised. He asked the Board's retroactive concurrence with the promotion.

Chairman Hernandez stated that he had allowed the Executive Engineer to make the promotion without the Board's prior concurrence.

In response to a question from Director Lyon, Mr. Kelly stated that the position did not require a certified welder. Both candidates were thoroughly tested, and the position was offered to the most-qualified candidate.

Director Brown made a motion that the Board retroactively concur with the promotion. Director Lyon seconded the motion, which passed (4-0).

Director Eichenberg suggested the Board review Resolution 2000-4 while they are reviewing changes to the Employee Manual. He suggested that the Board consider a change to the resolution so that the Board does not have to concur with promotions or other lateral changes, leaving those decisions to the Executive Engineer, with notification to the Board afterwards.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 5

Director Brown and Chairman Hernandez, as members of the Personnel and Salary Committee, agreed. Chairman Hernandez stated that the intent is to notify the Board, not to seek their approval. Director Brown stated that the resolution could be changed to require the Board be notified – and that notification could be retroactive. Director Lyon concurred.

Mr. Kelly stated that changes to the resolution will be reviewed along with the review of the Employment Manual.

7. Legal – Status Report

Attorney Brian Colón briefed the Board on the status of various legal matters. He also answered several questions from the Board.

Director Eichenberg suggested that the Board address the issue of Elector signature certification in 2009, a non-election year. He suggested the Board consider issuing the Certificate of Nomination a month later than currently scheduled, allowing time for staff and the County Clerk to check signatures after the Nominating Petitions are received, and before the Certificate of Nomination is signed and sent to the County Clerk.

Director Lyon briefly commented regarding his experiences with the Clerk's Office this year.

Director Eichenberg suggested that the new election schedule would state that shortly after the Nominating Petitions are received, the Secretary-Treasurer would send a letter to the County Clerk requesting that the petitions be checked to be certain all requirements were complied with. At the next Board meeting after the signatures are checked, the Secretary-Treasurer would be authorized to send a second letter with the Certificate of Nomination.

Consensus of the Board was that this issue should be discussed further in 2009, after legal counsel has had a chance to review the appropriate statutes.

8. Notification of On-Call Services Task Orders

Mr. Kelly stated that an on-call services task order had been issued to Easterling and Associates for professional engineering services to continue to coordinate and support the formation of the New Mexico Watershed and Dam Owners Coalition and to coordinate and manage the NMWDOC/ASDSO/NMOSE Dam Owners Workshop, to be held in Albuquerque on August 14-15, 2008. This is Amendment One to their Task Order One, on a time and materials basis, not to exceed \$10,000.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 6

Consent Agenda (items 9a and 9b):

9. AMAFCA Equipment

a. Award of Bid for 3 CY Front End Loader

The memo from Kurt Wagener, AMAFCA Field Engineer, stated that five sealed bids were received by the deadline. The low bidder, with a bid of \$131,750.00, was Tom Growney Equipment. Tom Growney Equipment possesses a Resident Bidder's Certificate and their bid meets the specifications. Staff recommends the bid be awarded to Tom Growney Equipment in the amount of \$131,750.00 plus New Mexico Gross Receipts Tax.

b. Award of Bid for 20,000 Pound GVW Gooseneck Trailer

The memo from Mr. Wagener stated that three sealed bids were received by the deadline. J&B Trailer World was the apparent low bidder with a bid of \$10,550.00. The second lowest bidder was MCT Industries, Inc., at \$11,750.00.

His memo stated J&B listed four specification exceptions. Two of the four were higher than the specifications. The third was powder coating rather than epoxy paint, which staff deemed to be equal or better. The fourth exception was 5" channel on the side rails rather than 8". This trailer requires 5" maximum so the tires can be changed. The side rails are not a structural member, and after inspection, staff is confident the trailer will meet AMAFCA's needs. Staff recommends the bid be awarded to J&B Trailer World in the amount of \$10,550.00 plus New Mexico Gross Receipts Tax.

Director Eichenberg noted that the memo for item 9b stated, "not including...Federal taxes." He asked if the trailer was subject to federal taxes. Mr. Wagener stated that he was unaware of any federal taxes on the trailer.

There being no other items on the consent agenda, Director Eichenberg made a motion that the Board take the following actions on items 9a and 9b on the consent agenda:

- Award the bid to Tom Growney Equipment, Inc., and authorize the Executive Engineer to execute a purchase order for the purchase of the 3CY Front End Loader in the amount of \$131,750.00 plus Gross Receipts Tax; and
- Award the bid to J&B Trailer World and authorize the Executive Engineer to execute a purchase order for the purchase of the 20,000 Pound GVW Gooseneck Trailer in the amount of \$10,550.00 plus Gross Receipts Tax.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 7

Director Brown seconded the motion, which passed (4-0).

Regular Agenda:

10. Martineztown Flood Relief – Post Office Pond Property Acquisition – Briefing by John R. Castillo, Director, Department of Municipal Development, City of Albuquerque

Mr. Kelly introduced John Castillo, Director of the Department of Municipal Development for the City of Albuquerque.

Mr. Castillo briefed the Board on the status of the City's acquisition of property on the corner of Lomas and Broadway from the Post Office. He stated that, within the past week, the City's offer on the property had been accepted with closing due the following day.

He requested that the Board consider moving forward some funding for City projects on the Project Schedule, so that AMAFCA can participate in funding the acquisition and initial improvements.

Mr. Castillo stated that, similar to the Tingley Park Surge Pond, the City is planning to use on-call contracts to dig the pond, so that flood control measures can be put in place as soon as possible. He added that Tingley Park Surge Pond park improvements should open in early September. There had been a serious storm in the area a few days before, with no problems in the Tingley area.

In response to a question from Chairman Hernandez, Mr. Castillo stated that the detention pond currently planned as well as the Air Quality Pond nearby would take care of approximately 43% of the detention capacity needed for Martineztown flood relief. The City is also looking at obtaining additional property in the area.

Director Eichenberg commented that he hoped the money to acquire the property had not come from the fund for the Academy Bike Trail, as the bike lanes flood every time it rains. This is of concern to the neighborhood association. Mr. Castillo stated all the money came from other storm drainage projects.

Mr. Kelly stated that there was an option to dig the pond deeper, or with steeper sides, and run a pipe from the bottom of the pond to the bottom of the wet well of the Broadway Pump Station. Doing so would bring the total capacity closer to 60% of the detention needed in the area. He noted the AMAFCA FY-2008 Project Schedule identified \$2 million for the Post Office Pond Excavation in 2013. He had been able to identify \$2 million from the November 2008 bond



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 8

authorization that could be used on the Post Office Pond project, by moving back AMAFCA funding on other City projects.

Director Eichenberg suggested that further discussion on the project be deferred to the August Board meeting, to allow time for further review of the project, and perhaps even field trip(s) to the site.

Director Brown noted, as an example, that four smaller ponds might need a total of 12 acres to contain the capacity of one large pond constructed on a consolidated 6 acres, due to setbacks and side slopes. The City and AMAFCA may need to look for a larger site for a pond in the area, even if it requires condemnation of some properties, and then sell this site later. He noted that the corner of Broadway and Lomas is a prime site for a multi-story building on the edge of downtown and therefore quite valuable for future development from a community planning point of view.

After further discussion, Director Brown suggested buying this site now, as it is available now, then looking around for six to eight months before digging the pond, in case some other property can be identified to use for drainage purposes. This might mean other locations for a larger pond, or locations for additional smaller ponds. He suggested that staff look at a consolidation of concurrent developed properties.

Director Eichenberg suggested that a series of smaller ponds throughout the neighborhoods, which could also be used for recreation purposes, might be better received by the neighborhoods than one large concrete monstrosity at Lomas and Broadway, which would be a graffiti magnet. He also noted part of the problem in this area has to do with the slope of the land. It might be cheaper to buy existing homes to use their land for the ponds than to use prime commercial property.

Chairman Hernandez noted there could be community opposition to purchasing residents' homes for flood control purposes, as there had been in Barelás.

Mr. Castillo noted that another 3.1 acres may become available at the Post Office site, which would allow a larger pond to be constructed at the Post Office. The AQ Pond is now being built, and there is another park the City is looking at in the area. If they need to consider buying up blocks of houses, the City may wish to have AMAFCA be the lead in that effort.

Chairman Hernandez called a brief recess at 10:59 a.m. in order for the Board to observe bond sale bids coming in. The meeting resumed at 11:07 p.m., continuing the discussion of agenda item 11.

After brief discussion, Board consensus was to have staff evaluate other pond options and locations, and to discuss the issue further at the next Board meeting.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 9

11. North Diversion Channel Storm Water Quality Reconnaissance Study – Briefing on Scoping Meetings and Draft Scope for Project

Mr. Kelly stated that the scoping committee had met twice, and would meet again in two weeks to finalize the scope of the North Diversion Channel Storm Water Quality Reconnaissance Study. Low DO levels will be investigated, and the deliverables have been spelled out more clearly in the current draft scope. The final scope will be brought before the Board for approval. He recommended that representatives from several of the agencies participating in the Scoping Committee be chosen to serve on the Selection Advisory Committee.

12. Tijeras Arroyo 500-year Event Analysis – Briefing on Study by Elvidio Diniz, Resource Technology, Inc.

Mr. Kelly introduced Elvidio Diniz, of Resource Technology, Inc., who briefed the Board on the Tijeras Arroyo 500-year Event Analysis.

Mr. Kelly stated that when the Board did their Resolution Review, there was some discussion of adopting a 500-year event design criteria for the Tijeras Arroyo. The Board has the ability, per Resolution 1980-15, *Drainage Policy*, to establish a design event greater than the 100-year event. Section 1 of Resolution 1980-15 states, "*However, the Board of Directors of the Authority reserves the right to require a more conservative design where the consequences of failure could be severe.*" Similar action was taken in Resolution 1979-1, *Relating to Rio Grande Levees*, when the Board endorsed a levee design for 42,000 cfs, well above the 100 year flow rate of approximately 20,000 cfs in the Rio Grande.

He added that Resource Technology, Inc., was engaged to evaluate the 500-year flow event within the Tijeras Arroyo, and to evaluate the hydraulic capacity of the channel from I-25 to the outfall to the Rio Grande.

The Executive Summary Report from Resource Technology stated that the design flow rates for the Tijeras Arroyo developed by the Corps of Engineers in 1956 were 37,000 cfs (Standard Project Flood (SPF), approximately the 500-year event) at Broadway Boulevard and 6,700 cfs from the South Diversion Channel, reduced to 6,300 cfs in 1970. In 1974 the Corps revised the SPF for the Tijeras Arroyo to 39,100 cfs and computed 22,600 cfs as the Intermediate Regional Flood (approximately the 100-year event). The 1983 FEMA floodplain mapping study used 14,700 cfs for the 100-year flow.

Mr. Diniz stated that Resource Technology updated the hydrologic modeling using 2007 watershed conditions, resulting in a total flow rate for the Tijeras Arroyo at the Rio Grande Outfall of 20,000 cfs (100-year) and 48,000 (500-year).



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 10

Mr. Diniz stated that their study indicated that the height of the bridges was more than sufficient to pass the 500-year event of approximately 48,000 cfs.

However, he stated that some improvements may be needed in some portions of some reaches of the channel to safely pass 48,000 cfs. At the bend west of Second Street, the current capacity is only 46,000 cfs. The available freeboard for 500-year capacity is less than 1 foot east of Broadway Boulevard (on the diversion berms) and west of Second Street. Improvements may be required at these locations to satisfy any freeboard criteria that AMAFCA may wish to impose.

Mr. Diniz added that the South Diversion Channel peaks three hours earlier than the Tijeras Arroyo, so coincident peak effects are not a consideration.

He stated that Resource Technology, Inc. recommends designing for a 500-year storm capacity with at least one foot of freeboard on all the reaches of the Tijeras Arroyo.

Mr. Kelly commented on development along the Tijeras Arroyo, stating that so far, drainage decisions requiring designing for the 500-year event have been made on a case-by-case basis. He asked if the Board would like to set a drainage policy for the Tijeras Arroyo via resolution.

Chairman Hernandez stated there was a precedent for requiring a 500-year protection, but not a particular resolution for the Tijeras Arroyo.

In response to a question from Director Eichenberg, Mr. Kelly stated that the bridge at University Boulevard was designed at the then-500-year event of 37,000 cfs plus 3 feet of freeboard. This translated to passing the 48,000 cfs 500-year event as computed by Resource Technology. The bridge designed, Bohannon Huston, Inc., provided AMAFCA and Resource Technology information that the bridge would pass 85,000 in a zero freeboard condition. Compliance was voluntary, not required by the Board through resolution.

Director Lyon commented that if there were no problems in the way it is being done now, perhaps a resolution is not needed.

Director Brown stated that due to the historic magnitude of flows along the Tijeras Arroyo, having a policy set by resolution would be prudent. Referring to the historical account of the Tijeras Arroyo storm in August, 1895, he stated that large storms in the watershed not only result in high volumes of water, but high velocity flows with a lot of momentum, and thus the potential for damage is great.

Mr. Kelly commented that it is not an onerous design parameter. Meeting the FEMA 100-year plus freeboard requirements brings a design very close to the 500-year event.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 11

Chairman Hernandez noted that with the new, higher 500-year flow rates for the Tijeras Arroyo, the Board had to decide what to do with the new information.

After further discussion, consensus of the Board was to support having staff draft a resolution to establish a 500-year event design criteria policy for the Tijeras Arroyo, for the Board's review and discussion at a future Board meeting.

With the Board's concurrence, Chairman Hernandez moved agenda item 14 next.

14. Adoption of Resolution 2008-9, 2008 General Obligation Bond Award Resolution

Mr. Kelly introduced Kevin Powers, of RBC Capital Markets, AMAFCA's Financial Advisor, and Duane Brown, of Modrall Spering, AMAFCA's Bond Counsel.

Mr. Powers reviewed the results of the Bond Sale, stating that number of bids received, seven, and the interest rate of the low bid, 2.979924% total interest cost from Morgan Keenan & Company, were indicators that AMAFCA's natural double-AAA bond rating is even more valuable in today's market. He stated that the low bid had been verified, and recommended the bonds be sold to Morgan Keenan & Company at 2.979924% total interest cost.

Chairman Hernandez expressed his pleasure at the low interest rate.

Director Brown made a motion that the Board accept Morgan Keenan & Company's bid of 2.979924% total interest cost. Director Eichenberg seconded the motion, which passed (4-0).

Duane Brown explained Resolution 2008-9, *2008 General Obligation Bond Award Resolution*.

Director Brown made a motion that the Board adopt Resolution 2008-9, *2008 General Obligation Bond Award Resolution*. Director Eichenberg seconded the motion, which passed (4-0) on a roll-call vote, Director Saiers being absent.

Mr. Powers noted that the full Moody's and S&P bond rating reports were included in a handout he had provided to the Board.

13. Raymac Dam Watershed Drainage Management Plan – Briefing on DMP Hydrology by Elvidio Diniz, Resource Technology, Inc.

Elvidio Diniz had been previously introduced by Mr. Kelly.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 12

Mr. Kelly stated that last month, the Board had been briefed on the progress on the Don Felipe Dam Watershed Drainage Management Plan. The briefing this month is on a similar study for Raymac Dam, just to the south. The dam was constructed in 1986 as a gated facility with a pipe outlet which ultimately discharges to the Middle Rio Grande Conservancy District Isleta Drain. The gate is normally closed, and is sized for full retention of the 100-year event under existing conditions. It is being restudied to comply with the new Office of the State Engineer's (OSE) rules and regulations for dam safety as a part of the Drainage Management Plan being developed for the watershed.

The memo from Lynn Mazur, AMAFCA Development Review Engineer, stated that the Raymac Dam was last evaluated in 1995 by Resource Technology, for a Letter of Map Revision (LOMR) to FEMA. The LOMR removed the 100-year floodplain area downstream of the dam. For the current study, flood flows were calculated for the 100-year and Probable Maximum Precipitation (PMP) events, using the updated 1997 AHYMO hydrologic model. The OSE evaluates a dam by its ability to pass the PMP storm over the emergency spillway. AMAFCA, the City, and the County are interested in the 100-year flows from a drainage management and FEMA floodplain perspective.

Mr. Diniz stated that Resource Technology used the updated flow rates to analyze the dam capacity for the existing dam pool volume and for the future excavated volume. There is room to increase the dam pool within the existing right of way. The dam volume and spillway capacity were evaluated for existing and future conditions.

Mr. Diniz stated that previous estimates of future development in the Raymac Dam Watershed had been one DU (dwelling unit) per acre, but densities are closer to 3 or 4 DU/acre where development is occurring. For purposes of the study, developed conditions were defined as 4 DU's per acre east of the powerline, and 1 DU per acre west of the powerline. He noted that this is a status report, as the study is still ongoing.

He stated that additional upstream detention is recommended, as without upstream storage or diversions and the dam pool increased in size, the emergency spillway is overtopped by the 100-year event under developed conditions. The full dam pool was not excavated at the time of construction, but the right-of-way was obtained at that time.

In response to a question from Chairman Hernandez, Mr. Kelly noted that Raymac Dam *is* sufficiently sized for the 100-year flow for existing conditions. Chairman Hernandez commented that any additional capacity needed will be a result of future development.

Mr. Diniz stated that they evaluated the dam under Probable Maximum Flow (PMF) for the safety of the dam. In six of the eight scenarios studied, the PMF overtops the dam crest. The PMF also overflows the emergency spillway crest in all eight scenarios studied. AMAFCA will need to



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 13

make improvements at the dam and plan for upstream detention ponds to handle the Probable Maximum Flow under developed conditions. Excavation of the dam pool will prevent overtopping of the dam crest. As the watershed develops, the inflow volume must be monitored to determine when upstream detention will be required, and when the dam pool will require excavation.

Mr. Kelly stated that AMAFCA will need to meter the flow upstream via detention ponds, and add storage at the dam, as the watershed develops. He added that the 100-year storm at the area is approximately 2.5" of rain but the Probable Maximum Precipitation (PMP) is approximately 16" of rain. This extreme event is used to design the emergency spillways of dams throughout the state.

Mr. Diniz stated this is standard throughout the country. PMP is based on the maximum moisture contained in an air column above the watershed that could precipitate out.

Mr. Kelly stated that several options would be developed and brought back before the Board.

Director Lyon briefly left the meeting at 12:00 noon.

15. Real Estate

a. Quitclaim/Release of Drainage Easement for Lot 32, Block B, Tract 2, Unit 1, North Albuquerque Acres

The memo from Lynn Mazur, AMAFCA Development Review Engineer, stated that the subject Easement is no longer needed, as the property is out of the FEMA Floodplain, the calculated flow in the La Cueva Arroyo is now lower than at the time of the grant of easement, and fill on the property places it above the energy grade line elevation. She recommended approval of the Quitclaim/Release of Easement.

Director Eichenberg made a motion that the Board authorize the Board Chairman to execute the Quitclaim Deed/Release of Easement for Lot 32, Block B, Tract 2, Unit 1, North Albuquerque Acres. Director Brown seconded the motion, which passed (3-0).

b. Private Storm Drain License for New Life Homes Development on the Snow Vista Diversion Channel

Ms. Mazur's memo stated that New Life Homes is an affordable housing complex on two acres at the northwest corner of Snow Vista Boulevard and Benavides Road. Phase One was completed in 2006. Site drainage was directed by surface swales to a retention pond next to AMAFCA's Snow Vista Diversion Channel. The second phase will convert the retention pond to a detention facility



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 14

by constructing an outlet pipe to the Channel. An orifice plate will limit discharge to 2.6 cfs as required by the Amole-Hubbell Drainage Management Plan.

Director Eichenberg made a motion that the Board authorize the Executive Engineer to issue the Private License Agreement for Storm Drain Connection to the Snow Vista Diversion Channel. Director Brown seconded the motion, which passed (3-0).

Director Lyon returned to the meeting at 12:01 p.m.

Chairman Hernandez, with the Board's concurrence, stated that they would discuss agenda item 18b next.

18. New Business

b. EPA Region 6 Storm Water Conference – Briefing by Jerry Lovato on Conference and Discussion with EPA MS-4 Permit Writer

Jerry Lovato, AMAFCA Drainage Engineer, had provided a memo to the Board on the EPA Region 6 Storm Water Conference.

Chairman Hernandez stated that discussion of potential pending litigation would be in closed session.

Director Brown made a motion that the meeting be closed, pursuant to the Open Meetings Act, §10-15-1 NMSA 1978, Subsection H, to preserve the confidentiality of the information to be discussed, and as further described in Attorney General Madrid's document, "*The Open Meeting Act, A Compliance Guide for New Mexico Public Officials and Citizens*," fifth edition, January 2004. Director Eichenberg seconded the motion.

Chairman Hernandez stated that the closed session would be for purposes of discussion only, regarding potential pending litigation. The motion passed (4-0), on a roll call vote.

Chairman Hernandez closed the meeting at 12:03 p.m. and reopened the meeting at 12:29 p.m. He stated that the Board had taken no actions and made no decisions during the closed session, but discussed potential pending litigation.

Director Eichenberg left the meeting midway through the closed session, due to a prior engagement.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 15

- 16. Field Highlights**
- a. Construction Report**
 - b. Field Report**

Mr. Wagener presented a slide show of various projects, including prefinal inspection of the La Cueva Arroyo Dip Replacement, the Bernalillo County North Domingo Baca Dam tennis courts and trail, some of the task orders in the Agency/Area-Wide Flood Control Maintenance Project, the Vineyard Arroyo Storm Water Quality Facility, and the Black Arroyo Dam Water Quality Facility. A photo of a trash-collecting water quality manhole access on the Osuna Storm Drain demonstrated how well that concept works.

There were also pictures of the installation of a pipe tying into the Borrega Channel at the new southwest area high school. Foundation work is being done for the 98th Street Surge Pond Dam on the West I-40 Diversion Channel Extension, some photos of electrical work at UNM adjacent to the North Diversion Channel, the demolition and removal of the two structures on Isleta Boulevard, and the Corps of Engineers' Change of Command Ceremony.

Other photos showed AMAFCA Drainage Engineer Jerry Lovato at the EPA Region 6 Stormwater Conference in Waco, Texas, where he met with EPA officials and networked with others in the region.

The AMAFCA crew installed a water quality probe in the Rio Grande, just upstream of the North Diversion Channel Outfall. They also performed vegetation cleanup, and installed access control on the Calabacillas Arroyo at Universe Boulevard. Another photo showed the contractor on the Manual Trash & Debris Removal contract at work.

The final two photos showed the existing AMAFCA website, and a mockup of the main page of the new AMAFCA website being designed with the assistance of Griffin & Associates.

- 17. Unfinished Business**
- a. New Mexico Watershed and Dam Owners Coalition – Status Report**

Mr. Kelly stated that the New Mexico Watershed and Dam Owners Coalition had set a fee structure and had scheduled their first training workshop for August 14-15, 2008, in Albuquerque, in conjunction with the Office of the State Engineer and the Association of State Dam Safety Officials (ASDSO).

He added that AMAFCA's membership in the NMWDOC will be \$5,000, as a "Large Flood Control Authority." \$10,000 had been included in the FY-09 budget for this expense, along with \$20,000 for the first seminar. AMAFCA will pick up the expenses of the ASDSO for the speakers



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 16

for the first day of the conference, training materials, and their expenses as fiscal agent for the conference. He anticipated these costs would total \$12,000-13,000. He stated that he intended to send AMAFCA's engineers to the Dam Safety workshop as well. Board members interested in attending should inform the Executive Secretary so they may be registered.

Consensus of the Board was continued support of the Coalition and workshop expenses, and support of sending AMAFCA engineers and interested Board members to the workshop.

18. New Business

a. 2008 Interim Legislative Water and Natural Resources Committee – Report from Maurice Hobson, New Mexico Outsourcing

Mr. Kelly stated that he had asked Maurice Hobson to attend the 2008 Interim Legislative Water and Natural Resources Committee meeting on AMAFCA's behalf. Changes to the state statutes regarding the dams under the Office of the State Engineer's jurisdiction were discussed. Currently, only one of AMAFCA's 34 dams is non-jurisdictional. Under the proposed changes, an additional nine AMAFCA dams will become non-jurisdictional.

Mr. Kelly stated he would suggest some other changes to the statutes – that height be measured from the dam centerline rather than the downstream toe, and to measure the volume of the dam to the crest of the emergency spillway rather than the top of the dam.

d. MRCOG Awards

Mr. Kelly stated that the Mid-Region Council of Governments had decided to recognize all current and former AMAFCA Board members for the Regional Leadership Award for 2008. The awards ceremony will be the evening of August 8, 2008 at the Sandia Resort. Board members should RSVP by August 1, 2008. A joint letter from MRCOG and AMAFCA will inform the former Board members.

He added that Mr. Lovato is attending a meeting with Fish and Wildlife today. Ms. Mazur was absent at the beginning of the meeting as she made a presentation to the International Leadership Foundation, who had a group of Armenian engineers in Albuquerque to learn about highway and drainage design.

Ms. Jeffries stated that three AMAFCA employees had participated in the City's Wellness program, with excellent results. The program's winners included Men's Grand Champion John Castillo, who lost 40 pounds during the three month program, and the Women's Grand Champion Runner-Up, AMAFCA Executive Secretary Pam Woodruff.



**Albuquerque Metropolitan
Arroyo Flood Control Authority
Regular Meeting Minutes
July 24, 2008**

Page 17

Mr. Kelly noted that the Grand Champions won \$1,000 for their efforts, and Ms. Woodruff won \$500 of nutritional supplements.

19. Items from the Floor/Public Comment

None.

20. Adjourn

There being no further business to come before the Board, Chairman Hernandez adjourned the meeting at 12:48 p.m.

Tim Eichenberg, Secretary-Treasurer 8/28/08

Recorded by Pam Woodruff, Secretary to the Executive Engineer