

## Overview

The document consists of email correspondence regarding the construction and safety considerations related to the Amole Del Norte Detention Pond and Dam, involving various engineers and city officials in Albuquerque.

This PDF contains several different Email chains. What are the date ranges and topics of each chain?

The PDF contains several email chains with the following date ranges and topics:

1. **Date Range:** March 27, 2015 - June 12, 2015 **Topic:** Discussions about the Amole Del Norte Detention Pond and Dam (OSE File No. D-577), including construction approvals, dam jurisdictional status, proposed reservoir inflow, and water quality projects.
2. **Date Range:** July 10, 2015 **Topic:** Planned drainage improvements at the 98th Street Dam, including water conveyance, erosion prevention, and water quality structures.
3. **Date Range:** July 23, 2015 - July 27, 2015 **Topic:** Analysis of the Amole Hubbell Report 2013, including allowable discharge, storm drain sizing, and coordination with AMAFCA for downstream improvements.
4. **Date Range:** July 24, 2015 - August 3, 2015 **Topic:** Clarification on whether the developer can discharge into the Amole Del Norte Dam using an underground storm drain instead of a rundown.
5. **Date Range:** September 25, 2015 **Topic:** Submission of the Paradise RV Park Drainage Report, 2015, to serve as a Master Drainage Plan for the 98th and Central Basin, including zoning considerations and discharge adjustments for the dam.

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**From:** Eisenberg, Jame J.  
**Sent:** Friday, June 12, 2015 2:46 PM  
**To:** Daggett, Kevin  
**Cc:** Harmon Rita T.  
**Subject:** RE: Amole Del Norte Detention Pond [Amole Del Norte Dam (OSE File No. D-577)]

Kevin,

Based on the information at hand, I do not think it is appropriate for Planning to approve construction affecting the Amole Del Norte jurisdictional dam. The proposed construction and its effects, if any, are unclear. The proposed construction may also require coordination with the DSB.

I recommend we meet with Rita to discuss and resolve this issue.

Thanks

Jame J. Eisenberg, PE  
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Engineering Division  
Ph: 768-2654 Fax: 768-2765  
[jeisenberg@cabq.gov](mailto:jeisenberg@cabq.gov)

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**From:** Harmon Rita T.  
**Sent:** Thursday, June 11, 2015 11:15 AM  
**To:** Eisenberg, Jame J.  
**Subject:** RE: Amole Del Norte Detention Pond [Amole Del Norte Dam (OSE File No. D-577)]

Jame,

I have just had a moment to start the review on the resubmittal. Looks like the engineer changed it to just one outfall to the dam. If you do not have any objections, I am not going to make any adverse comments. I noticed that you sent some information to me per a previous email, however, it is my understanding that we simply need an email from DMD giving approval for any construction affecting the dams. We ourselves here do not coordinate with the Dam Bureau Chief as it is a DMD function.

***Rita Harmon, P.E.***

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**From:** Eisenberg, Jame J.  
**Sent:** Tuesday, April 07, 2015 10:37 AM  
**To:** Harmon Rita T.  
**Subject:** RE: Amole Del Norte Detention Pond [Amole Del Norte Dam (OSE File No. D-577)]

Good morning Rita

Did you receive more information on this project and how they propose to outfall to the dam reservoir? When we spoke you'd thought there may be more information available. There's not much shown for the outfalls on the submitted G&D.

Have you already responded to the engineer?

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**From:** Eisenberg, Jame J.  
**Sent:** Monday, March 30, 2015 9:38 AM  
**To:** Harmon Rita T.  
**Subject:** RE: Amole Del Norte Detention Pond [Amole Del Norte Dam (OSE File No. D-577)]

Here is some initial information to follow up on our discussion this morning. More detailed information is forthcoming.

1) Dam Safety Bureau coordination

As shown on the attached data sheet from the DSB, the dam is currently considered jurisdictional because the height is greater than 6 feet and the combined storage of the north and south reservoirs is greater than 50 acre-feet. I've recently submitted a request to the DSB to review the jurisdictional status based on the premise that the north and south reservoirs were designed as, and intended to function as, two separate dams, neither of jurisdictional size. We've been going back and forth with the DSB about this issue for several years now. The 2010 Rules and Regulations for dams (19.25.12.19 NMAC, attached) require that "A dam owner proposing to reconstruct, enlarge, modify, restore reservoir capacity, repair, remove or breach an existing dam must make application to and receive approval from the state engineer prior to undertaking any such action." It's unclear to me how large a modification has to be before DSB coordination is required. 19.25.12.7 gives the following definition: "**(3) Alteration, modification, repair, rehabilitation or enlargement of an existing dam:** To change from the state engineer accepted construction drawings and specifications or current condition."

The link for the DSB site is  
<http://www.ose.state.nm.us/DS/dsIndex.php>

and contact info is

Bureau Chief, Charles Thompson, P.E.  
(505) 383-4134

2) Proposed reservoir inflow

The record drawing for 4076.92 (single sheet attached) shows that the proposed 36" and 72" inflow pipes may impact the existing rundown and maintenance access road. As we discussed, the G&D doesn't show how this is being addressed. By the way, the H&H for the dam is included in the design reports for Tierra Bayita Phase III. We should have these reports digitally in our library if you don't have them at hand.

3) Proposed water quality project

DMD-Engineering has a project under development to install a water quality BMP at about the same location as the proposed 36" inflow. Kevin was noting that AMAFCA will often require a developer to construct water quality BMPs when they discharge to their facilities. I don't know if you have the same policy. I need to check how well our planned system works with them proposed inflow.

Hopefully this is helpful.

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**From:** Harmon Rita T.  
**Sent:** Friday, March 27, 2015 5:10 PM  
**To:** Eisenberg, Jame J.  
**Subject:** Amole Del Norte Detention Pond

Jame,

The Grading and Drainage Plan and report for Paradise RV Park Phase II has been submitted. This site is just north of the Amole Del Norte Detention Pond. Roland Penttila had originally reviewed this plan in August, 2011 and felt it was acceptable. The developer has just recently resubmitted a revised plan, but this plan proposes 2 outfalls into the pond. With 2 outfalls, as opposed to the original single outfall, will this new plan still be acceptable? The engineer is willing to go back to 1 outfall if absolutely necessary.

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**From:** Eisenberg, Jame J.  
**Sent:** Friday, July 10, 2015 3:44 PM  
**To:** Cherne, Curtis; Harmon Rita T.  
**Subject:** RE: 98th st dam drainage  
**Attachments:** kickoff exhibit - ADN.pdf

**Categories:** Red Category

We have a small project planned at the dam to

- 1) Convey the water from the ROW (that is currently bypassing the dam on the west side) further east in the ROW to the rundown on the north side of the reservoir
- 2) Create a paved swale to keep this same water from entering the facility at the gate and eroding the access road (as it did in 2014 – see exhibit)
- 3) Create a water quality structure at the top of the rundown

Some or all of these goals may need to be reworked because of the new development Ron Hensley is working on.

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**From:** Cherne, Curtis  
**Sent:** Friday, July 10, 2015 3:32 PM  
**To:** Eisenberg, Jame J.; Harmon Rita T.  
**Subject:** 98th st dam drainage

Jaime/Rita,

I was out driving around today and figured I'd stop by the 98<sup>th</sup> st dam and Leonidas Lane since Paradise RV park is under review.

I've attached some photos.

Some of the water draining down Volcano Rd is going into the dam, but some is draining down the outside of the dam on the west side and heading south. The dam was fairly dry and seems it should have had some water in it unless it perks real high.

Just FYI.

Curtis

Amole del Norte





## Chen, Tiequan

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**From:** Harmon Rita T.  
**Sent:** Monday, July 27, 2015 9:02 AM  
**To:** 'Bingham, Brad'  
**Cc:** Daggett, Kevin; Eisenberg, Jame J.  
**Subject:** RE: Amole Hubbell Report 2013

Thank you Brad,

I have had several meetings with DMD about this dam. Since we want to make sure this developer/engineer sizes the most downstream SD pipe into the pond correctly, we need to have some understanding of what AMAFCA's intent is.

Per our dialogue, it sounds like the intent is to allow for the original inflow and outflow that the dam was originally sized for. We will have to wait till the HMS analysis is complete to determine if any adjustments are needed.

Thank you,

***Rita Harmon, P.E.***

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**From:** Bingham, Brad [<mailto:bbingham@amafca.org>]  
**Sent:** Friday, July 24, 2015 5:07 PM  
**To:** Harmon Rita T.  
**Subject:** RE: Amole Hubbell Report 2013

The system will be analyzed for what is generated between the discharge of the dam and what is contributing between the dam and the Coors N-S. We think the 77 cfs difference will be "fixed" once the HMS values are determined. In other words, it is likely that there will be at least 77 cfs less entering the Coors N-S once the system is done in HMS. If it does not, yes, the City and AMAFCA would work together to Improve the dam. That particular dam is managed by the City.

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**From:** Harmon Rita T. [<mailto:rharmon@cabq.gov>]  
**Sent:** Friday, July 24, 2015 5:02 PM  
**To:** Bingham, Brad  
**Subject:** RE: Amole Hubbell Report 2013

Thank you Brad. Since the orifice plate was removed, the Dam can discharge 97 cfs per the Permit with the State Engineer. Since the 2013 Amole Hubbell Report recommended installing an orifice plate as a permanent solution, the Dam would spill.

If the full 97 cfs is discharged in the developed condition, will AMAFCA be modifying the Coor's N-S pond to allow for this?

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**From:** Bingham, Brad [<mailto:bbingham@amafca.org>]

**Sent:** Friday, July 24, 2015 10:39 AM

**To:** Harmon Rita T.

**Subject:** RE: Amole Hubbell Report 2013

The Dam is sized for the full development of the entire watershed above it to be able to freely discharge into it and still reduce flows to the capacity of the single 36" storm drain that empties the dam. The 22 cfs was the recommendation based on the capacity of the N-S Coors Dam, that they determined may spill. The 22 cfs discharge was one of a couple of recommendations to keep that one from overtopping. Another is to raise the N-S Coors dam spillway or make it bigger. AMAFCA is remodeling the entire Amole Hubbell watershed in HEC\_HMS because it is said that AHYMO overestimates flow by 10-15%. Reducing the flows out of the Amole del Norte dam is not the best course of action to "fix" the system. BTW, the allowable discharge out of the dam is regulated by the Office of the State Engineer, you can't reduce without them being part of the process.

Call me if you need to discuss this further.

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**From:** Harmon Rita T. [<mailto:rharmon@cabq.gov>]

**Sent:** Thursday, July 23, 2015 4:21 PM

**To:** Bingham, Brad

**Subject:** Amole Hubbell Report 2013

Brad,

A development is proposed near 98<sup>th</sup> and Volcano Road. This development is on the hook for the Storm Drain into the Amole Del Norte Dam.

We are in the process of determining allowable discharge out of the dam in order to determine the acceptable inflow.

The Amole-Hubbell 2013 Report recommended limiting the outflow to 22 cfs due to downstream deficiencies, but does not state where these deficiencies are nor how the 22 cfs was determined.

Do you have any knowledge of how this value was determined?

Any light you might shed on this would be very much appreciated.

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## Chen, Tiequan

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**From:** Harmon Rita T.  
**Sent:** Monday, July 27, 2015 9:09 AM  
**To:** ron@thegroup.cc  
**Subject:** FW: Paradise RV Park

Ron,  
I have had some dialogue with AMAFCA. The intent is to allow the inflow/outflow that the dam was originally sized for. Therefore, when revising the Final Developed Condition, use a %D treatment that was used in the original 1995 Greiner Report. It was 57%, 63%, and 70% for Basins 108.1, 108.2, and 108.3. You will have to compare basin boundaries to determine where to use each %D on your Basins.

Rita

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**From:** Harmon Rita T.  
**Sent:** Friday, July 24, 2015 3:23 PM  
**To:** [ron@thegroup.cc](mailto:ron@thegroup.cc)  
**Cc:** Biazar, Shahab  
**Subject:** Paradise RV Park

Ron,  
Per our phone conversation this morning, your Report and Plan are essentially approved. Before I write the approval letter, I would like you to resubmit the Plan and report with the following changes/additions. Once it is submitted, I will immediately write a formal approval letter.

- 1) Basin maps must show the entire basin. At present, the maps are cut short and do not show the full basins.
- 2) **Interim** Basin Map and Routing: Revise routing diagram to fix errors (AP3, AP4 are in the wrong place and label Basin 106. )
- 3) Provide a Bain Map for Phase II in the report. (you emailed it to me but it needs to be in the report)
- 4) Include basin maps of the 2013 Amole-Hubbell with the intent to show that you used the same basins. No other references are needed.
- 5) Were bulking factors used in the **Existing** and **Interim** condition? If not, include in the analysis.
- 6) Revise the **Final** developed condition:
  - a. Cut Basin 205.1 in half along 106<sup>th</sup> St. and route western half to Basin 204.1. Reason being that the 84" SD to S. Pond was sized for 334cfs. With all of Basin 205.1 discharging to SD in 98<sup>th</sup> St, the peak flow is 361 cfs- may be too high. Note: With half of Basin 205.1 being routed to the 72" storm drain in Volcano, the pipe may need to be upsized.
  - b. AHYMO needs to be rerun with the Basins immediately west of 98<sup>th</sup> Street being routed to the South Pond. They are being added to flows in Volcano SD and then routed to N. Pond (see AHYMO summary). They should be routed directly to the S.Pond.
    - i. This may change the analysis for the 102" SD, since 361 cfs being re-routed.

- ii. What is the HGL in the 72" with this change? We may be able to leave as 72" rather than upsize.
  - c. Use the Staged discharge Curve using the Tierra Bayita III 1998 Report as it included the access road.
  - d. Basin 209.3 is nearing full build-out and a higher %D should be used. It is a commercial site so  $D = 0.85$  is appropriate.
  - e. Basin 205.2 should not include the off-ramp area as shown on the 2013 Amole-Hubbell Basin map.
- 7) The outfall of this site into the Dam needs further discussion. I am asking DMD for clarification of whether or not a SD can outfall into the Dam, or did they prefer a concrete rundown. They do want a v-ditch/channel on the south side of Volcano Road to direct offsite flows into the Dam, and also for the Concrete Rundown to be modified as needed.
  - 8) On a Separate Plan sheet, labeled **Storm Drain Network Map**, show the Storm Drains only, relative to the site. Label the Interim and Final Peak Flows in the SD, and label the condition of the flow (i.e. Interim, Final). Show Flow Arrows and associated Q on this same Map from onsite, offsite, and street flows. In short, the flow values should be separate from the grading.
  - 9) Remove Hydrologic Data table from the Plan.

The City believes that there are too many unknowns at this time and will not require the developer to determine the capacity of the Amole Del Norte Dam. It should be noted, that upstream capacity will be based on the Dam capacity rather than on land treatments.

I will be emailing the City Attorney to determine if an amended I.L. needs to go thru DRB or not. I will be getting back to you on this, but in the meantime let's try to determine exactly what will be amended based on the revised Final Condition analysis as noted above, and working out the details of the outfall to the Dam. These **may** be the items that need to be added or amended.

- 84" pipe in Volcano Rd.
- 102" pipe into N. pond
- gravel V-ditch on South side of Volcano up to 102<sup>nd</sup> St.
- fixing the present rundown.

Regards and thank you for your patience in this matter.

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## Chen, Tiequan

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**From:** Harmon Rita T.  
**Sent:** Monday, August 3, 2015 4:47 PM  
**To:** ron@thegroup.cc  
**Cc:** Shawn Biazar  
**Subject:** FW: Amole Del Norte Dam Clarrification

Ron,  
You can discharge into the pond via Storm drain as opposed to a rundown.

Rita

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**From:** Eisenberg, Jame J.  
**Sent:** Monday, August 03, 2015 4:40 PM  
**To:** Harmon Rita T.  
**Subject:** RE: Amole Del Norte Dam Clarrification

In principle, yes. We'll need to review the details of how he's doing it.

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**From:** Harmon Rita T.  
**Sent:** Monday, August 03, 2015 4:29 PM  
**To:** Eisenberg, Jame J.  
**Subject:** RE: Amole Del Norte Dam Clarrification

Thank you Jame,  
So in short, he can discharge into the dam with an underground Storm drain, correct?  
Rita

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**From:** Eisenberg, Jame J.  
**Sent:** Monday, August 03, 2015 3:31 PM  
**To:** Harmon Rita T.  
**Cc:** Daggett, Kevin  
**Subject:** RE: Amole Del Norte Dam Clarrification

I'd like to change my response regarding this question. 19.25.12.19 NMAC requires that approval must be received from the state engineer to reconstruct, enlarge, modify, restore reservoir capacity, repair, remove or breach an existing dam. Based on internal discussion, we do not believe placing the inflow pipe deeper at the upstream end of the reservoir would be considered a modification to the dam, requiring coordination with the DSB, since it is not impacting the dam embankment or changing the inflow (inflow to the reservoir was anticipated to be pipe flow for the fully developed watershed).

Thanks

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**From:** Eisenberg, Jame J.  
**Sent:** Monday, July 27, 2015 9:40 AM  
**To:** Harmon Rita T.; Daggett, Kevin  
**Subject:** RE: Amole Del Norte Dam Clarrification

I think we'll need to coordinate this with the OSE Dam Safety Bureau. This may be a meeting at OSE between the developer, DMD, and the state (unless you want to take part).

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**From:** Harmon Rita T.  
**Sent:** Friday, July 24, 2015 2:59 PM  
**To:** Eisenberg, Jame J.; Daggett, Kevin  
**Subject:** FW: Amole Del Norte Dam Clarrification

I need a little clarification: Was it ok for the developer to discharge his site into the Dam using an underground SD? He cannot use a rundown since the SD from his site is at 5222 and the top of the Dam is at 5230.

I

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## Chen, Tiequan

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**From:** Don R. Briggs <drbriggs@bernco.gov>  
**Sent:** Friday, September 25, 2015 12:36 PM  
**To:** Harmon Rita T.; 'Bingham, Brad'  
**Cc:** Robert Pierson; Daggett, Kevin; Eisenberg, Jame J.; ron@thegroup.cc; Catherine VerEecke; Kevin Grovet; Christi L. Tanner; Tiequan Chen  
**Subject:** RE: 98th & Central Basin and Amole Del Norte Dam

Thank you Rita

I will add this to our reference library.

Best Regards  
Don

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**From:** Harmon Rita T. [mailto:rharmon@cabq.gov]  
**Sent:** Friday, September 25, 2015 12:07 PM  
**To:** Don R. Briggs; 'Bingham, Brad'  
**Cc:** Robert Pierson; Daggett, Kevin; Eisenberg, Jame J.; ron@thegroup.cc; Catherine VerEecke  
**Subject:** 98th & Central Basin and Amole Del Norte Dam

Don,

A copy of the [Paradise RV Park Drainage Report, 2015 by Ron Hensley](#) is being provided to the County to serve as a Master Drainage Plan for the 98<sup>th</sup> and Central Basin. Development within the County's jurisdiction will need to adhere to this report.

Discussions with the County Planner, Catherine VerEecke, indicated that while Zoned A-1 (1 dwelling unit per Acre) that it is anticipated this undeveloped property will be much denser. A new zoning plan is in the works. The City recommends using the [Paradise RV Park Drainage Report, 2015 by Ron Hensley](#) to establish appropriate use.

Attached is a summary of the analysis as well as the approved Drainage Report.

Brad,

The [Paradise RV Park Drainage Report, 2015 by Ron Hensley](#) establishes that the discharge out of the dam in the ultimate condition is 70 cfs. Therefore 48 cfs, rather than 75 cfs (per earlier emails) , will need to be absorbed by the new HEC-HMS study.

Sincerely,

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