

**Utilities Department Monthly Report
July 2011**

MONTHLY REPORTING

Utilities Administration Division

- Monitoring the budgets for the six divisions within the utility department as well as assisting in the monitoring of the expenditures, submission of requisitions and payment requests for the numerous special projects within the divisions.
- Annual inventory for Utilities Department prepared and submitted by month end.
- Submitting all invoices for payment for yearend.
- Closing out Purchase Orders, preparing requisitions for new fiscal year, and establishing new files.
- Preparing draw-down requests for special projects.

Utilities Services Division

Customer Service Section

- Making sure customer's catch up on winter bills.
- Verifying accounts for sanitation.

Meter Reader Section

- Re-reads 623
- Line Locates 133
- Work Orders 216
- Read in/out 45
- Cut out-non pay 78
- Stopped Meters 2
- Auto read all new meters, need to cut holes in meter lids only.
- Recovered tools at State Road 65, Route #26.
- All staff attended underground line tracing equipment short school in Santa Fe on June 23rd.

| Water Meter Size | Total Number of Meters | Total Meter Exchanges | Total Remaining Old Meters | Total Meters Changed This Month |
|------------------|------------------------|-----------------------|----------------------------|---------------------------------|
| 5/8 inch | No Count | | | 6 |
| 5/8 x 3/4 inch | 5157 | 4664 | 493 | 114 |
| 1 inch | 143 | 103 | 101 | 2 |
| 1 1/2 inch | No Count | | | 1 |
| 2 inch | 189 | 111 | 109 | 2 |
| 3 inch | 6 | | 0 | 0 |
| 4 inch | 10 | | 10 | 0 |
| 6 inch | 2 | | 2 | 0 |

Gas Division

- Worked on valve maintenance throughout the City of Las Vegas
- Worked on cathodic survey distribution throughout the City of Las Vegas
- Installed new gas service at 706 Coronado Drive
- Painted meter sets at all schools throughout the City
- Staff attended a CDL general knowledge preparation class
- Staff attended a training class on line locates
- Worked on a 1" PVC Gas Service repair at 110 Union Street
- Staff attended a trenching and excavating class
- Prepared meter set for the NM Behavioral Health Institute
- Manager attended a conference in Ruidoso regarding pipeline safety

Solid Waste Division

- Transport Truck being taken to Council on May 24th
- On May 25th Commercial Trash Can Lids were ordered and shipment was received on May 30th
- A Chipper Vac was purchased and arrived on May 30th this will be utilized for fence line clean up and other projects.
- An Memo of Understanding with the county is being discussed and will be taken to council
- Four wards in four weeks cleanup project
- Paint was secured for Dumpsters
- In the process of ordering a total of two new Packer trucks (one Residential Loader and one Commercial Loader).
- Mulch from the Transfer Station has been cleaned and is now being offered to the public for they're use.
- The Cardboard Baler parts have been ordered.

Accomplishments

- Packer Trucks have been ordered and we will have both trucks within 90 days.
- The Cardboard Baler has been fixed and has been in use
- Since the start of the City hauling its own trash to the Landfill a total of 18 loads have been taken and an excess of \$8,500 have been saved (15 day span).
- Council approved Transport Truck bid was awarded to Roberts Truck Center for \$111,808.
- Memo of Understanding was complete and council approved of the MOU on May 24th
- The Four wards in Four weeks project was completed on May 27th upon completion a total of 85.8 tons were recovered by City staff.

Challenges

- Obtaining the necessary funding for corrective measure at the Transfer Station Facility
- Improving on the Recycling Center at the station.
- Obtaining More Staff for work at Transfer Station and on the field for litter prevention.

- Assuring that all staff follow all Safety rules.

Water Division

Water Conservation Section

| Water Conservation Programs | Inventory | Distributed For month | Distributed Year to Date |
|---------------------------------|-----------|-----------------------|--------------------------|
| Low Flow kits | 644 | 13 | 942 |
| Rain Barrels | 257 | 18 | 193 |
| High Efficiency Toilets Rebates | | 2 | 77 |
| High Efficiency Toilet | 9 | 0 | 11 |

- Changed to Stage IV Water Restrictions April 8, 2011
- 10 call outs for Stage IV violations
- 3 letters of violation issued for irrigation/car washing
- Working on 3 high water customer consumption accounts
- Drafted letter to stand pipe customers on Stage IV restrictions and uses
- Attended safety training on trenching-June 22, 2011
- Meeting with code enforcement letting them know that all water violation calls are to be referred to water conservation specialist
- Attended safety training at Solid Waste on trenching-June 29, 2011

Distribution Section

- Water Distribution Construction Crew installed 300' of 2" water main on South Grand.
- Water Distribution Construction Crew installed 4 new water services.
- Water Distribution Construction Crew installed 6" fire protection water tap on 7th Street for the new McDonalds.
- Installed 2 new ¾ inch water services
- Installed -6 inch fire hydrant tap.
Water Distribution Maintenance Crew started to transfer services in the alley on Railroad Ave. 31 services need to be transferred from old 2 inch line to the new 8 inch line. 10 have been transferred.
- Water Distribution Maintenance Crew raised valve boxes for new side walk on East side of 7th Street.
- Water Distribution Maintenance installed 2 new ¾" double setters.
- Conducted pressure tests and maintenance 556 fire hydrants.
- Checked all Valves on Fire Hydrants to make sure they are working.
- Repaired 1-8"water main leak

- Water distribution crews have start up bi weekly tail gate safety meetings and discuss the issues that can be a potential hazard.

Accomplishments

- 1) Carnegie Library on Effluent water irrigation
- 2) El Camino Mobil Home Park Individual water meters installation
- 3) New ¾ Water services

Challenges

- 1) May 9, 2011 start the cinder road 12" effluent water project
- 2) Install new 12" C900 Effluent Water main from 12th street up Moreno Street to Rodriguez Park on Grant Street.
- 3) North water loop from North Grand Ave. to Mills Ave.
- 4) Three owners from Mobile Home Parks requesting to individual meter their Parks
- 5) One 6 inch water tap for Fire Hydrants at New Mexico Behavioral Health Institute
- 6) New 6 inch fire protection tap at Highlands University new student center on National Ave.
- 7) Installed new 6 inch fire protection tap at LCC Community College.

Water Treatment Plant

- Replacement of one solution tank level control float switch
- Construction for Diversion Rehabilitation is on schedule
- Meeting with Doug from Molzen on extreme way of pumping water out of Storrie lake if water could not reach intake culvert
- Regular monitoring of water metering, water quality and equipment maintained and water sampling
- Contractors visit at wells for rehabilitation Taylor well # 2 bids
- Replacement of new turbidity unit at clear well bld.

Operation Status as of 6/30/2011

Surface Water Diversion

Approved Diversion: 2754.270 AF

YTD Diversion: 1027.942 AF

Remaining Balance: 1726.328 AF

Ground Water Pumping

YTD Taylor Wells #4: 216.341202.264 AF

Storage

Total Storage: 1022.643 AF

Amount in Storage: 620.725 AF

Available Storage: 401.918 AF

Percent Full: 60.7%

Water at Storrie Lake

Amount in Storage: N/A AF

IMPROVEMENT PLANS

Utilities Administration Improvement Plan

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|--|--|---|
| Develop Utility Rates based on cost of service Methodology | Hire a firm to perform rate study to ensure adequate funding for utility Operations and Capital improve. | Orientation Workshop 11/16-19 th , Financial Plan Workshop completed Rate Design Workshop Completed |
| Staffing/Cross- Training in Utility Department | Fill Vacant positions to have a full staff. Cross train staff in different areas to ensure coverage of all positions | Presently we are training a new inventory clerk |
| Some Service & Material Agreements not current. | Develop R. F. P.'s | On Going |
| Improve Critical Spare Parts Inventory | Work with Purchasing Officer to identify spare parts needed | The Purchasing Officer is currently working with supervisors to improve the critical spare parts inventory. This will be on going |
| Complete inventory of chemicals and MSDS Sheets | Work with Purchasing Officer to complete inventory MSDS Sheets | Work assignment given on 01/15/2010 deadline is 03/01/2010 |
| Asset Management Plan | Work with the four Divisions to establish a committee to work with and implement the Asset Management Plan | Work assignment given Nov. 2010 Deadline 12/31/10 |

Customer Service Improvement Plan

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|-----------------------------|--|--|
| Customer service clerk | Hiring a customer service clerk & cashier. | Had interviews on 06/03/11. Hired one. A 2 nd recommendation to council on July 21, 2011. |
| Explanation of utility bill | Making sure customer service can explain utility bill. | Customer service can explain the breakdown of a bill. |

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| Water leaks | Notify customers as soon as leak is detected. | Working with customers on water leaks by detecting through consumption. |
| Invoicing for standpipe and effluent water | Developing new invoicing to keep better records of customer's consumption. | First billing for effluent water by residents has gone out. |

Meter Reader Improvement Plans

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|------------------|--------------------------------------|--|
| Old Water Meters | Change out old outdated water meters | All 1989 or older meters are done. Now changing 1990 through 1995. |

Waste Water Improvement Plans

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|--|---|---|
| Install effluent reuse lines | Expand reuse system to Rodriguez Park. | Water Distribution Dept. will complete this project by end of 2011. |
| Re-use system expansion | Expand system to increase availability of re-use water to additional city parks and irrigation users. | PER Fee and agreement under negotiation, state funding Frozen. |
| Air handling issues at WWTP for aeration basins | Work with engineers on constructive solutions to this issue. | Waiting for quotes to finalize review of their responses. |
| Cinder Road, sewer and effluent lines | Install new 15" sewer collection pipe to be able to lift moratorium. Engineering and Design is 100% complete. pipe and materials ordered utilizing \$200,000 WTB Grant and \$50,000 loan. Updated uniform funding application re-submitted to water trust board for the sewer main for the requested amount of \$750,000. | Will Commence installation of 15" sewer main and 12" reclaimed water line on 5/4/11 along with two sanitary sewer mains. County signed off on crossing permits. |
| Solids handling issues at WWTP for aerobic digestors | Work with engineers on constructive solutions to this problem. | waiting for quotes to finalize review of their responses. |

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| Camp Luna sewer line replacements due certain undersized lines | Lines in certain areas are undersized and over capacitated. | Seeking Easement Access |
| West side sewer line replacements | Replace undersized and over capacitated sewer mains | I.C.I.P./ Updated uniform funding application re - submitted to Water Trust Board for sewer main upgrades in the requested amount of \$2,750,000 on February 24, 2011 |
| State road 65 sewer replacement project North of medical center. | Replace 400feet of six inch VCP pipe with 8" PVC pipe and new ring and covers on existing manholes. | Completed. |

Gas Improvement Plans

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|---|---|--|
| Old PVC gas line that needs to be replaced. | Replace old line with new line and relocate gas services. | 700 feet of 2" PVC and 5 service risers have been replaced on Romero St. |
| Residential meter replacement project | Replacing 1989 and older gas meters with new R275 gas meters. | 280 Gas Meters have been replaced. 20 more needed to complete. |

Solid Waste Improvement Plans

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|------------------------------------|--|--|
| Vehicle Maintenance Improvement | Establish a 3 month Maintenance of Trucks | 3 month plan has begun for each truck |
| Litter Control at Transfer Station | Daily walk through and pick up on the grounds | Showing significant progress along fence lines and front of property |
| Improve Recycling | Educate schools and involve public | Setting up meetings with staff for possible E-Waste weekend |
| Safety Meetings | Conduct bi-weekly meetings of safety issues pertaining to Solid Waste. | Have held two meetings and meetings will continue. |

Water Conservation Improvement Plans

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|---|--|--|
| Conservation Ordinance Violators | Monitor watering, car washing, etc. | On-going |
| Fine Tuning of Water Conservation Ordinance | Solicit suggestions for improvements to Water Conservation ordinance | Meet with Utility committee for suggestions and see what can be changed at Administrative level. |

Water Distribution Improvement Plans

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|--|---|--|
| Distribution System modeling & mapping | Hire engineering firm to perform modeling and mapping. Obtain information from Molzen | Lack of Internal Capacity |
| Reuse water (Effluent) line extension | Extend the effluent reuse water to Plaza Park. Phase 1 River walk 980ft. installed 380 ft. 25 percent Complete | Started on 2/24/2011 Estimated date Complete. Complete |
| Distribution System Line Replacement | Replace leaky, small diameter, aged or add lines to loop system | Engineering Analysis, Scheduling |
| Distribution System Leak Detection Program | Work with OSE under grant to develop program. Results used to prioritize replacements. | Have detected 5 leaks. Relocated leak detection loggers. Have all 100 loggers installed on water valves. |
| Reuse Water (Effluent) Line Extension | Extend the effluent reuse Water to Plaza Park. Phase 2 Moreno st. From Escuelas to South Gonzales. 680 ft. Installed 460 ft. 75 percent Complete. | Started On 1/10/2011 Estimated date complete 3/24/2011 |

Water Supply Improvement Plans

| PROJECT/CONCERN | IMPROVEMENT PLAN | PROGRESS |
|-----------------------------------|---|---|
| Replace PLC at RAW Water Building | For flow control at cabin site tank and chemical pump | Alpha Southwest is in the process of ordering and |

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|---|--|---|
| | feed rate for treated water | programming |
| Structural of repair of Filter Building on Northeast side | Under review consulting with Molson and Corbin | Doug from Molson at water treatment for reviewing |

CAPITAL PROJECTS

Waste Water Capital Project

| PROJECT | STATUS | START DATE | COMPLETION DATE |
|---|--|--|---|
| Working with Engineer and Community Development Staff for emergency CDBG Grant for sludge centrifuge. | Grant request submitted- ICIP and budget 2011. Awaiting approval from DFA. | July 26, 2010 | Working with Engineer and Community Development Staff for emergency CDBG Grant for sludge centrifuge. |
| Camp Luna- replace under sized sewer mains. | Need to work with county and residents for access do to encroachment on easements. | September 30, 2010 | Camp Luna- replace under sized sewer mains. |
| Installation of 330 feet of 8 inch PVC pipe and six new sewer service taps. | Has been scheduled for third week of March 2011. | March 14, 2011 | Installation of 330 feet of 8 inch PVC pipe and six new sewer service taps. |
| Air handling issues at WWTP for aeration processes-sludge handling issues and covering of entrance works. | Going out for quotes from engineering firms | December 14, 2010 | Air handling issues at WWTP for aeration processes-sludge handling issues and covering of entrance works. |
| NPDES NM0028827 renewal | Assigned task order to Souder Miller and Associates engineering for preparation and completion of this permit. | September 23, 2010 | NPDES NM0028827 renewal |
| Reclaimed water pipe and material bid for Cinder Road Project | County public works signed off on crossing permits so that we could commence this project. | January 2011 | Reclaimed water pipe and material bid for Cinder Road Project |
| Industrial Storm Water Pollution Prevention Plan for WWTP. | Assigned task order to Molzen-Corbin engineering for preparation and completion of this EPA mandated Plan. | SWPP completed and NOI sent to EPA for approval- received response | Industrial Storm Water Pollution Prevention Plan for WWTP. |

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|---|---|--|---|
| | | from EPA for more Info. on 12-29-10. | |
| State police building KFUN | Final cost from contractor in for review by Molzen Corbin to move forward with finalizing the needed extension agreements. Need final DOT easements . | City wants 12” sewer and water lines installed for this project for future expansion of city utilities. City to pay the difference in pipe costs from 8” to 12”. | State police building KFUN |
| Service truck For waste water department with utility bed and crane. | Waste water will budget vehicle in 2011/ 2012 budget. | Will be getting the final state contract costs for this truck | Service truck For waste water department with utility bed and crane. |
| Working with Engineer and Community Development Staff for emergency CDBG Grant for sludge centrifuge. | Grant request submitted- ICIP and budget 2011. Awaiting approval from DFA. | July 26, 2010 | Working with Engineer and Community Development Staff for emergency CDBG Grant for sludge centrifuge. |

Gas Capital Projects

| PROJECT COMPLETION | STATUS | START DATE | |
|--------------------|--------|------------|--|
| | | | |

Solid Waste Capital Projects

| PROJECT COMPLETION | STATUS | START DATE | |
|------------------------------|--|----------------|---------------|
| Transfer Station Renovations | Renovations have started and are going as scheduled | March 17, 2011 | July 11, 2011 |
| Landfill Closure | Preliminary Engineering report | April 2011 | |
| Refuse Trucks Purchase | Council negated bid for rush and awarded bid to Pend Pac | March 16, 2011 | |
| Transport Trailer | Council approved bid to MCT of Albuquerque for \$78,925 | April 5, 2011 | |
| Transport Truck | Council approved bid to Roberts Truck Center for \$111,808 | May 18, 2011 | |

Water Distribution Capital Projects

| PROJECT COMPLETION | STATUS | START DATE | |
|--|--|------------|---------------------|
| 12 Inch Effluent Water Moreno project Phase 1 | The new 12 in Effluent water Pipe phase one 980 feet. 25 per | 2/24/2011 | 3/11/2011 complete |
| Meter Replacement | Started on 2" water meters from 1989 to 1990 38 meters have replaced seventeen 2" meters | 12/1/2009 | On going |
| 12 inch Effluent Water Moreno phase 2 | The new 12in Effluent water pipe Phase two 680. 75 percent complete | | |
| Cinder Road Effluent water | Install 12 inch Effluent water main 8641 feet from Mills Ave. up Cinder Road. | 5/9/2011 | 8/30/2011 Estimated |
| Moreno St. 12" Effluent Line to Rodriguez Park | Hook up Plaza Park and Rodriguez Park to effluent water | 1/1/2011 | |

Water Supply Capital Projects

| PROJECT COMPLETION | STATUS | START DATE | |
|---|---|------------|--|
| Peterson Dam Leaks | Under Souder Miller Consulting | | |
| Distribution System – High Trihalomethanes. Problem is system wide and is the result of elevated summer TOC, increased temperature, low demand, inadequate system looping, and lack of periodic flushing. | Completed map and profile. It has been determined that this is a system wide problem. Efforts are in progress to modify disinfection practices and optimize Alum feed rates to minimize the problem. Distribution is in the process of identifying broken valves and eliminating dead ends. | | |

| | | | |
|--|---|--|--|
| | Operations will seek engineering solutions/recommendations for alternative disinfection/treatment at the water treatment facility pending PER completion. | | |
|--|---|--|--|

Project Updates from Engineers

Molzen, Corbin & Associates

A. On-Going Task Orders

1. **Taylor Well No. 2 (No. 3)**

- The final design was submitted to the City and the NMED on March 22, 2011
- NMED-CPB approved project on March 24, 2011.
- Site Certificate was submitted to NMED and NMFA on March 31, 2011
- NMED-DWB approval is pending.
- Construction Phase Services, Construction Observation (Surface Features) and Construction Observation (Well) to be provided later.
- The project was funded by the WTB June 1, 2011.
- The project is scheduled to advertise on June 15, 2011 and the bid opening is scheduled for July 13, 2011

2. **Water System Hydraulic Model (No. 4)**

- The water model is 90% complete
- The draft model was submitted to the City for review on April 26, 2011.
- We had a meeting with the City to review the existing water system and the proposed improvements on June 1, 2011.
- The following information from the City is pending:
 1. Pressure reading on inlet pipe to the Luna Tank.
 2. Verify the existence of the PRV on El Llano Road.
 3. Verify the closed valves on Rio Arriba.
 4. New static pressure readings.
 5. New PRV pressure readings.

2. **Finished Water PER (No. 5)**

The Draft PER was submitted to the City for review on April 26, 2011. We request a meeting with City to review the Draft PER and the proposed improvements.

Water Treatment Plant

The existing water treatment plant has been evaluated for existing operational issues that need to be addressed as well as long-term improvements.

The existing operational issues are well known, but are being further defined and clarified in this PER so the City can obtain funding for the improvements. These improvements must be made in order for the City to continue to operate the treatment plant.

The recommendations regarding the WTP in the PER are as follows:

Priority 1 Improvements:

- Reduce TTHMs and HAA5 to safely meet drinking water standards and improve taste and odor problems:

- Add an oxidation process upstream of the pretreatment facility such as ozone, ultraviolet light, and/or hydrogen peroxide to reduce the organic precursors of disinfection byproducts
- Install a building cover over the pretreatment facility to minimize algae growth in the basin
- Improve operation and maintenance of plant:
 - Install roof over the existing alum storage and containment tanks located adjacent to the Raw Water Pump Station to protect them from sun and rain.
 - Reroof the filter building to protect the equipment inside the building from water damage.
 - Repair cracks in masonry walls of the filter building to seal the building from outside drafts and protect the masonry from further damage.
 - Add three additional outlet drains in the concrete sludge lagoon to reduce the amount of sediment that clings to the slope of the lagoon.
 - Add raw water pipe to feed into the top of Bradner Reservoir to improve water quality by reducing stagnant zones in the reservoir that now exist with a single inlet/outlet pipe in the bottom.

Priority 2 Improvements:

- Facility modifications to increase capacity assuming current source water

Priority 3 Improvements:

- Facility modifications to address variations in surface water quality

Finished Water Distribution System

The finished water distribution system consists of the waterlines throughout the City of Las Vegas. Similar to the Water Treatment Plant, the improvements required to the distribution system have been presented as a prioritized list of what the City must do in order to address known issues with the existing distribution system.

The draft water model was submitted to the City for review and comment on April 26, 2011.

The improvements that have recommended are as follows:

- Upsize lines based on results of the water model.
- Loop dead end lines to improve water quality, water pressure and fire protection.
- Address lines that need to be replaced based on input from City staff.
- Leak detection (on-going implementation of existing program and possible recommendation for additional leak detection).

Finished Water Storage

The engineering analysis, which uses peak day demand and population projections for the planning period of the project, indicates that no additional storage will be required to meet 2050 storage requirements. A new water tank will be required at the Airport to supply the proposed booster pump building as presented in the Draft PER.

It has been recommended in the Draft PER that the three existing storage tanks be inspected and rehabilitated.

Effluent Reuse

The effluent reuse evaluation has included the evaluation of many concepts for usage of effluent. Essentially, in order for an effluent reuse option to be beneficial to the City, the reuse must either replace a current potable use or result in an exchange with a current user(s) of potable water who is willing to use effluent rather than existing potable water.

The final report regarding the quantity of effluent available for reuse throughout the study period was provided on January 19, 2011.

The evaluation matrix created to help the City evaluate the effluent reuse options was presented at the public hearing and in the draft PER to outline the many effluent reuse options that were considered during the evaluation.

An additional option that could be considered is obtaining a second NPDES permit to discharge effluent upstream from the existing discharge location, but downstream of the City's diversion from the Gallinas River. The thought is this would possibly allow the City to divert more water from the Gallinas since the downstream users would have water to divert from the river that is currently not available with the City's existing diversion and discharge locations. It is essentially a "water swap" with the acequias that would allow the acequias to continue to divert from the Gallinas.

Based on input from the City staff and others, the recommendations in the Draft PER include the following short term and long term improvements:

Short Term:

- Expand existing system to irrigate more City parks and ball fields.
- Construct facilities to get the effluent from Cinder Road up to and back down from Camp Luna.
 - Allows for expanded reuse to maximize what is available on a daily basis and minimizes the reliance on the pumping equipment at the WWTP.
 - Would result in discharge of entire 0.6 MGD in winter.

Long Term:

- Pump excess reuse to Storrie Lake (waiting for City-coordinated meeting with Storrie Lake Board of Directors to determine if it will be recommended). The cost for water quality analyses that would define characteristics, including basic pharmaceuticals, is very high and has not approved by the City.
- Discharge effluent upstream of existing discharge location to provide water in river for users downstream of City's Gallinas diversion location (evaluation underway)

Groundwater Evaluation

The Draft PER focused on how to incorporate the new ground water recommendations from Daniel B. Stephen's report into the existing water system, including physical improvements to get the water into town and treatment required for any of the new sources of water.

4. Storrie Lake Conveyance System Report (No. 6a and 6c)

- We met with City Staff on September 14, 2010 to discuss the conveyance system and to review draft material prepared for a Public Scoping Meeting.
- Based on recommendations by the City at the September 14, 2010 meeting a meeting was held with the Storrie Lake Users Association on October 13, 2010.
- It was decided in this meeting to revise the scope of work to only evaluate the following three alternatives:
 1. New gravity pipe to replace open channel.
 2. Pump-assisted system to convey low flows by gravity and higher flows with pump.
 3. Concrete lining of channel.
- A Draft of the Evaluation was provided to the City in January 2011
- Cost for Alternative 1 was \$9.7M, Alternative 2 was eliminated due to large horsepower requirement, and Alternative 3 cost \$15.2M.

- A meeting was held on April 12, 2011 and April 21, 2011 with the City, Storrie Lake, State Game and Fish and U.S. Fish and Wildlife. The City requested that we revised the construction estimate for Alternative No. 1 to include the lining/repair of the tunnel, the two siphons and install a buried pipe from Bentley Lake to McAllister along NM281.
- Storrie Lake is considering the cost to City for additional storage at Storrie Lake.

5. Cinder Road Sewer System Improvements (No. 7)

- The scope of work is to extend a 15" sewer line along Cinder Road and through the memorial Middle School to Old National Road and extend a 12" effluent line from Mills Ave. to El Camino Road.
- The 15" sewer line is intended to eliminate the over load condition of the existing sewer line that was identified in Task Order No. 1.
- The 12" effluent line is intended to initially irrigate the middle school and baseball fields across the street and eventually be extended to Camp Luna and potentially Storrie Lake.
- The final design was submitted to the City and NMED on April 6, 2010.
- NMED approved the plans and specifications on April 21, 2010.
- The sewer portion of the project is on hold pending funding.
- The City received WTB funds to purchase the materials and install the effluent line portion of the project.
- The City requested that Molzen Corbin proceed with identifying the property needed for the booster pump building and tank on Cinder Road.
- We met with the City and two potential property owners to begin the discussion.
- The easement required for the 15" gravity sewer through the Memorial Middle School also needs to be secured.
- The City requested that Molzen Corbin assist with the Utility Permits for San Miguel County to install the utilities that cross the new bike path.
- We submitted them to the City on February 22, 2011 and the City submitted them to the County for review and approval.
- On March 31, 2011 San Miguel County requested that additional language be included on all seven (7) permit application forms.
- We understand that the City has received the approved permits from San Miguel County and that the City started installing the utilities that are affected by the new bike path.
- On May 19, 2011 the City requested that we assist with the procurement of a contractor to complete the remainder of work associated with in the area of the Palo Verde lift station.
- We met with the City and the Storrie Lake Contractor (H.O. Construction) on June 1, 2011 and the City requested a cost proposal for the work that will be a Change Order to the existing Storrie Lake project.
- H.O. Construction provided a cost proposal and schedule on June 3, 2011

6. KFUN/State Police Station Water and Sewer Extension (No. 8)

- The State is constructing a new State Police Building east of the Interstate and south of the University exit.
- We assisted the City with evaluating the proposed design of the extension of the City water and sewer lines to service the building and future development east of the interstate.
- We received a copy of the NMDOT permits May 15, 2011 for the utilities to include in the Draft Line Extension Agreement.
- A draft of the agreement was submitted to the City on May 17, 2011.
- We are waiting on new/updated utility construction costs from the Contractor in order to provide a new draft of the agreement to the City.

7. Rodriguez Park Effluent Re-use (No. 9)

- The final design was submitted to the City and NMED on April 19, 2011.

- The project was approved by NMED on May 3, 2011
- The project was funded by the WTB on June 1, 2011
- The project is scheduled to advertise on June 15, 2011 and the bid opening is scheduled for July 13, 2011

8. Storrie Lake Inlet Piping Crossing Repairs (No. 14)

- Construction began on March 21, 2011
- The Substantial Completion Inspection was held on April 26, 2011.
- The project is complete.

9. Gallinas River Effluent Line Crossing (No. 20)

- The scope of this project consists of the construction of new 12" DIP effluent line encased in concrete across the Gallinas River at Moreno Street.
- Construction began on March 21, 2011
- The project is approximately 90% complete.
- The Contractor had difficulty controlling the groundwater so they hired a subcontractor to complete the work.
- The Contract time expired on April 19, 2011.
- The Subcontractor is now having difficulty with the pressure test and is scheduled to resume construction on June 6, 2011.

11. Entrance Works Enclosure (No. 23)

- The scope of this project consists of enclosing the entrance works with a series of panels, windows and roll up doors.
- The City approved the Task Order for the design on March 18, 2011.
- The preliminary plans were submitted to the City on April 26, 2011.
- We received the City comments on April 26, 2011.
- We discussed the City comments on April 28, 2011 and we will submit the final plans and specifications to the City by June 10, 2011

12. New Mexico Effluent Line Crossing (No. 24)

- The scope of this project consists of the construction of new 12" DIP effluent line along New Mexico Avenue from Moreno Street to Grant Street.
- The City received a permit from the NMDOT on March 10, 2011.
- The City approved the Task Order for the design on April 14, 2011.
- The preliminary plans were submitted to the City on April 26, 2011
- We received the comments from the City.
- The project is scheduled to advertise on June 15, 2011 and the bid opening is scheduled for July 13, 2011

B. Pending Task Orders

1. Taylor Well No. 5 (No. 16)

- The City would like to place this well back into service
- Molzen Corbin performed site visit to prepare scope of work on November 2, 2010
- Molzen Corbin provided Task Order to City on December 7, 2010

2. North Grand Avenue Waterline Improvements (No. 17)

- City would like to loop four dead end lines in the vicinity of City Hall and the Hospital

- These lines have been identified in the draft water model.
- Molzen Corbin provided Task Order to City on December 7, 2010

3. Luna Tank and Cabin Site Tanks (No. 18)

- The scope of this project consists of the draining, cleaning, repainting and possible structural improvements to the 2.5 million gallon Luna Tank and the 5.0 million gallon Cabin Site Tank. Modify yard piping at the Luna Tank to allow the existing booster pump building to be removed from service. The existing high service pump (red pump) will remain in service.
- We recommend the following tasks be performed by the City during the preliminary design phase:
 1. Test for lead base paint on both tanks (inside and outside)
 2. Inspect interior of both tanks to determine the following:
 - a. Quantity and type of debris.
 - b. The extent of structural improvements that may be needed
 - c. The condition of the cathodic protection system
 3. Isolate the Cabin Site Tank and perform a trial water system operation using the clear well pumps at the Water Treatment Plant to simulate the daytime and nighttime operation for two days.
 4. Perform pressure test at Luna Tank.

- Molzen Corbin provided Task Order to City on December 7, 2010

5. Cover over the WTP Pretreatment Facility (No. 19)

- The scope of work consists of the construction of a metal structure cover over the existing pre-treatment facility at the Water Treatment Plant.
- The purpose of the project is to reduce the amount of sunlight to the water surface
- The cover will be a pre-manufactured cover mounted to the top of the existing walls
- The west and south walls will be screened to reduce evening sunlight and improve security.
- Molzen Corbin provided Task Order to City on December 7, 2010

5. Storrie Lake Conveyance System Environmental Information Document (No. 6c)

- Based on the meetings with the City and Storrie Lake, this work will not be performed and will be removed from the Status Report.

6. Septage Management Technical Assistance (No. 12)

- A public meeting held on June 29, 2010.
- Molzen Corbin provided a Task Order on July 1, 2010.

7. WWTP Sludge Handling Modifications (No. 21)

- Molzen Corbin provided a Task Order on January 11, 2011.

8. WWTP Aeration System Modifications (No. 22)

- Molzen Corbin provided a Task Order on January 11, 2011.

C. Completed Task Orders

1. Old National Road Sewer Evaluation (No. 1)
2. West Las Vegas Middle School Sewer Evaluation (No. 2)
3. Storrie Lake Conveyance System Aerial Photography (No. 6b)
4. Camp Luna Elevated Tank Painting (No. 10)
5. Taylor Well No. 2 Design (No. 3)

6. Storrie Lake Inlet Piping Crossing Repairs (No. 14)
8. SWPPP at WWTP (No. 15)