



UTILITIES ADVISORY COMMITTEE MEETING

Wednesday, October 16, 2019 at 5:30 p.m.
Los Osos Community Services District Office
2122 9th Street, Suite 106, Los Osos, CA

COMMITTEE MEMBERS

Chuck Cesena, Chairperson
Matthew Fourcroy, Vice Chairperson
James Bishop, Member
Jan Harper, Member
Leonard Moothart, Member
Eric Silva, Member

STAFF

Ron Munds, General Manager
Jose Acosta, Utility Systems Manager
Laura Durban, Administrative Services Manager

AGENDA

1. **Opening at 5:30 p.m.**
Call to Order, Flag Salute, Roll Call
2. **Approve UAC Meeting Minutes of September 18, 2019**
(Recommend Committee Approval)
Presented By: Administrative Services Manager Durban
3. **Basin Management Committee Update**
(Updates Only)
Presented By: Chairperson Cesena
4. **Utilities Department Updates**
(Updates Only)
Presented By: Utility Systems Manager Acosta
5. **Review of Board Item Regarding Request from the Property Owners of 1748 Mountain View Drive to Develop a Parcel within the District's Water Service Using an Existing Well**
(Review, Discussion and Recommendations to the Board)
Presented By: General Manager Munds
6. **Review of Board Item Regarding the Award of a Contract to Water Systems Consulting for Design and Survey Service for the South Bay Well Transmission Project**
(Review, Discussion and Recommendation to the Board)
Presented By: Ron Munds, General Manager
7. **Public Comments on Items NOT on this Agenda:** At this time, the public may comment on items not on this agenda. Each commenter is limited to 3 minutes and shall address the Chairperson.
8. **Schedule Next UAC Meeting** – The next UAC Meeting will be held Wednesday, November 20, 2019 at 5:30 p.m. unless otherwise noted.
9. **Closing Comments by UAC Committee Members**
10. **Adjournment**

**DRAFT Minutes of the Utilities Advisory Committee Meeting
September 18, 2019 at 5:30 p.m. at the District Office**

| AGENDA ITEM | DISCUSSION | FOLLOW-UP |
|---|--|---|
| <p>1. Call to Order, Flag Salute and Roll Call</p> | <p>Chairperson Cesena called the meeting to order at 5:30 p.m. and led the flag salute.</p> <p><u>Roll Call:</u> James Bishop, Committee Member – Arrived at 5:45 p.m. Jan Harper, Committee Member – Absent Leonard Moothart, Committee Member – Present Eric Silva, Committee Member – Present left at 6:19 p.m. Matthew Fourcroy, Vice Chairperson – Present Chuck Cesena, Chairperson – Present</p> <p><u>Staff:</u> Ron Munds, General Manager Jose Acosta, Utility Systems Manager Laura Durban, Administrative Services Manager</p> | |
| <p>2. Approve UAC Minutes of July 17, 2019</p> | <p>Chairperson Cesena presented the minutes for approval.</p> <p>Public Comment – None.</p> <p>Committee Member Moothart moved to approve and accept the minutes as presented. The motion was seconded by Committee Member Silva and the motion carried by unanimous consent.</p> | <p>Action – File approved minutes.</p> |
| <p>3. Basin Management Committee July 17, 2019 and September 18, 2019 Meeting Update</p> | <p>Chairperson Cesena reported that Basin Management Committee gave an update on the infrastructure projects; the monitor well will only take a few weeks to construct; approved the selection of the new Executive Director; approved part of the budget for next year to get new Director, Dan Heimel from Water System Consulting (WSC), in place and Rob Miller transitioned out; released money for contract related to creek recharge issue, the feasibility studies show it will be approximately half-a-million dollars; discussed recycled water to Sea Pines; new cannabis and hemp ordinances.</p> <p>Public Comment – Julie Tacker submitted letter to the BMC about cannabis farm that is already growing hemp in our basin; commented about paying attention to the hemp ordinance and amending cannabis for offsets; discussed the offsets and importance of paying attention to the offsets.</p> <p>Jeff Edwards commented on Sea Pines using recycled water; that the recycled water cost is similar to the Dry Land Farmer Agreement; that water to Sea Pines is being heavily subsidized, giving Sea Pines water at almost no cost due to being subsidized; scaling back amount given to Sea Pines to try to cover cost of treatment of recycled water.</p> | <p>Action – No action.</p> |
| <p>4. Utilities Department Update</p> | <p>Utility Systems Manager Acosta reported on updates to South Bay Well Project and awarding Water System Consulting (WSC) to provide engineering consulting for the project; working with District Engineer to receive a RFP from AECOM for the SCADA Project; 10th Street Reservoir, staff is working with Superior Tank Solutions to commence the work in November; leak detection survey completed by Matchpoint found five distribution leaks and eight customer leaks that are being addressed; Bayridge decommission has 11 of 12 tanks decommissioned, awaiting bid to slurry the last take to complete the project; the County is requesting the 8th Street Yard building to be brought up to code, working with District Engineer and Craig Smith to work past this red tape; recruitment for a new Water Resource Operator.</p> <p>General Manager Munds reported on the 8th Street Well grant, that he and Rob Miller would be going to Salinas on Monday September 23, 2019 to present to DWR, hoping to be awarded and have it under construction in March of next year.</p> | <p>Action – No action.</p> |

| AGENDA ITEM | DISCUSSION | FOLLOW-UP |
|---|---|--|
| <p>5. Review of Board Item Regarding Modification to District Code Title 2</p> | <p>Utility Systems Manager Acosta gave a brief summary of the staff report as submitted with the Agenda highlighting amending water leak credits from Stage III of the Water Shortage Contingency Plan, formatting changes, grammatical changes, renumbering as needed, and getting Title 2 current with Senate Bill (SB) 998; reviewed bullet points on the staff report.</p> <p>Public Comment – Jeff Edwards commented on the difference between stages for Water Conservation Plan; that stages are impossible to follow, on getting off the water contingency plan or to simplify it.</p> <p>Julie Tacker inquired to how Title 2 is enforced; can the District have an Enforcer; if there is an Enforcer will the penalties recover the cost to enforce.</p> <p>Richard Margetson inquired about location in ordinance of residents assuming billing if landlord doesn't pay.</p> <p>Committee Member Moothart moved to recommend that the Board of Directors accept the requested changes and amend Title 2 of the Los Osos Community Services District Code accordingly with confirmation of multi-family assuming water account. The motion was seconded by Committee Member Bishop and the motion carried by unanimous consent.</p> | <p>Action – Recommend that the Board of Directors accept the requested changes and amend Title 2 of the Los Osos Community Services District Code accordingly with confirmation of multi-family assuming water account.</p> |
| <p>6. Review of Board Item Regarding Establishing a Recycled Water Rate</p> | <p>General Manager Munds gave a brief summary of the staff report as submitted with the Agenda and a brief history;</p> <p>Committee Member Bishop inquired about the anticipated Recycled Water amount that would be used.</p> <p>General Manager Munds commented that originally it was discussed that it would be the entire landscape and that it will now be limited to the lower field to avoid overspray issues; the schools water use has dropped dramatically since the school installed a computerized system; unsure of the exact amount, but it will be less than anticipated in 2017; this will only affect Los Osos Middle School at this time.</p> <p>Public Comment – Julie Tacker inquired if the School District will notify parents.</p> <p>General Manager Munds responded that there will be signage, unsure if parents will receive direct notification.</p> <p>Jeff Edwards inquired about amount of water; about what is the District paying the Waste Water Facility for the water; commented that Waste Water Treatment Facility will lose money and sewage rates will go up.</p> <p>Richard Margetson commented on the mitigation requirements and conditions place on the wastewater project and their costs; and the value of the offset of current groundwater pumping to make an attempt to have an impact on sea water intrusion in the lower aquifer.</p> <p>Committee Member Moothart inquired if the BMC has a percentage that needs to go to Broderson; commented that if the District is not producing as much as needed that the District needs to make sure that there is a minimum going to recharge.</p> <p>Committee Member Bishop moved to recommend that the Board of Directors adopt a resolution amending Appendix A to Title 2 of the Los Osos Community Services District Code to establish a recycled water rate. The motion was seconded by Committee Member Moothart and the motion carried by unanimous consent.</p> | <p>Action – Recommend that the Board of Directors adopt a resolution amending Appendix A to Title 2 of the Los Osos Community Services District Code to establish a recycled water rate.</p> |

| AGENDA ITEM | DISCUSSION | FOLLOW-UP |
|---|---|---|
| <p>7. Review of Board Item Regarding the Transfer of Funds to the Water Reserve</p> <p>7. Review of Board Item Regarding the Transfer of Funds to the Water Reserve (Continued)</p> | <p>General Manager Munds gave a brief summary of the staff report as submitted with the Agenda and an update to the Committee Members on the reserve accounts.</p> <p>Public Comment – Richard Margetson commented that Pacific Premier Interest should be 20 basis points greater than LAIF Interest Rate; there was a 25-basis point drop on September 18, 2019; that the Board should be aware and should look into investing the money that does not need to be as liquid so that we can lock in a higher interest.</p> <p>General Manager Munds responded that he is reading the Investment Policy and looking into updating it.</p> <p>Committee Member Moothart moved to recommend that the Board of Directors transfer funds from the District’s Mechanic Bank Checking account to the Pacific Premier Bank Money Market accounts in the amount of \$595,661.09 for Water. The motion was seconded by Committee Member Bishop and the motion carried by unanimous consent.</p> | <p>Action – Recommend that the Board of Directors transfer funds from the District’s Mechanic Bank Checking account to the Pacific Premier Bank Money Market accounts in the amount of \$595,661.09 for Water.</p> |
| 8. Public Comments on Items NOT on this Agenda | Richard Margetson commented that the Board should consider doing something with the Water Quality Trust Fund money and getting it off the books. | |
| 9. Schedule Next UAC Meeting | The next meeting of the Utilities Advisory Committee is scheduled to be held on Wednesday, October 16, 2019 at 5:30 p.m., unless otherwise noticed. | |
| 10. Closing Comments by UAC Committee Members | None | |
| 11. Adjournment | The meeting adjourned at 6:38 p.m. | |

Leak Detection Services Project Summary

Submitted to:

Los Osos Community Services District
PO Box 6064
Los Osos, CA 93412

Prepared by:

Matchpoint Inc.
2919 Orville Wright Way, Suite 200
Wilmington, NC 28405



Project Duration: September 4, 2019 – September 16, 2019



Mr. Jose Acosta,

We present to you, the Matchpoint Water Asset Management, Inc. (MWAM) project summary report outlining the recently completed 11-day leak detection investigations performed across suspect areas of the Los Osos Community Service District's water distribution system. It includes the leak investigation survey results as well as recommendations for proactively furthering non-revenue water (NRW) management throughout the system. We have also attached separate files, Appendices A-C, which all contain relevant supporting system data and documentation.

It is hoped that the Los Osos Community Service District is satisfied with the services we provided, and we welcome the opportunity to work with you again in the future. Please note that in approximately 90 days we will be contacting you as part of our standard quality control program to understand your perspective of the overall success of the project.

Thank you for allowing MWAM to assist the Los Osos Community Service District with our leak detection services this year. We appreciated your assistance during the project, as we worked together to reduce the District's NRW. Please contact us if you have any questions or concerns.

Sincerely,

Austin Deaver
Project Manager
Matchpoint Water Asset Management, Inc.
P: (910) 509-7225
adeaver@matchpointinc.us

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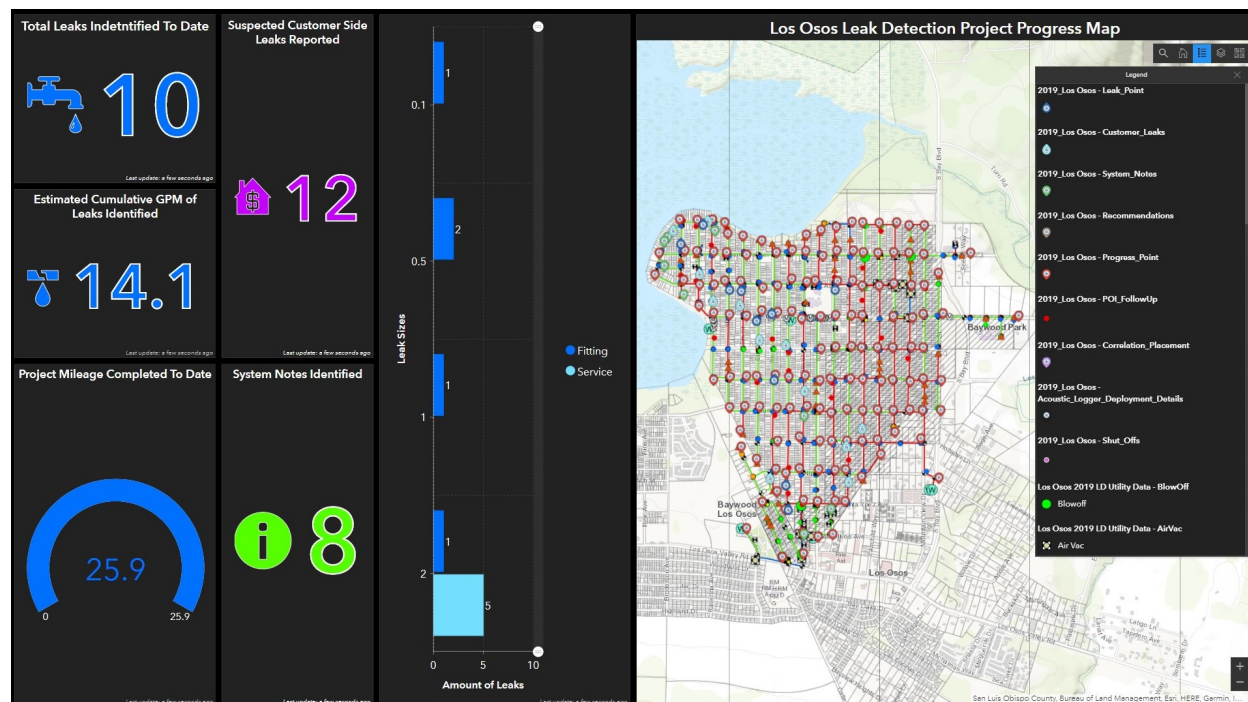
SCOPE OF PROJECT

Matchpoint Water Asset Management (MWAM) was contracted to conduct 25.9 miles of leak detection services within Los Osos Community Service District's water distribution system. The objective of the survey was to help reduce NRW by identifying water loss through leak detection services across a portion of the overall water system as well as report additional items that may factor into contributing to water loss in other ways.

SUMMARY

MWAM used a combination of visible observations and acoustic leak detection techniques throughout the 11-day investigation. Over the course of the project 3,133 individual fittings were sounded to discover 10 distribution leaks along with 12 suspected customer side leaks. Additionally, 8 system notes were identified. The leakage rate of the distribution leak discovered was estimated at 14.10 gallons per minute. Therefore, once repairs are completed, the utility will save approximately 20,304 gallons per day, or 617,580 gallons per month, or 7,410,960 gallons per year. The monetary value of the water is \$4,935.31 per year based on a cost of \$.666/1000 gallons that was provided by Los Osos. However, savings will only be reflected if a continual and proactive investigation and repair program is implemented.

Austin Deaver led the survey as the project manager and throughout the 11 days on the project, he comprehensively surveyed 25.9 miles of distribution system potable water lines acoustically for leakage.



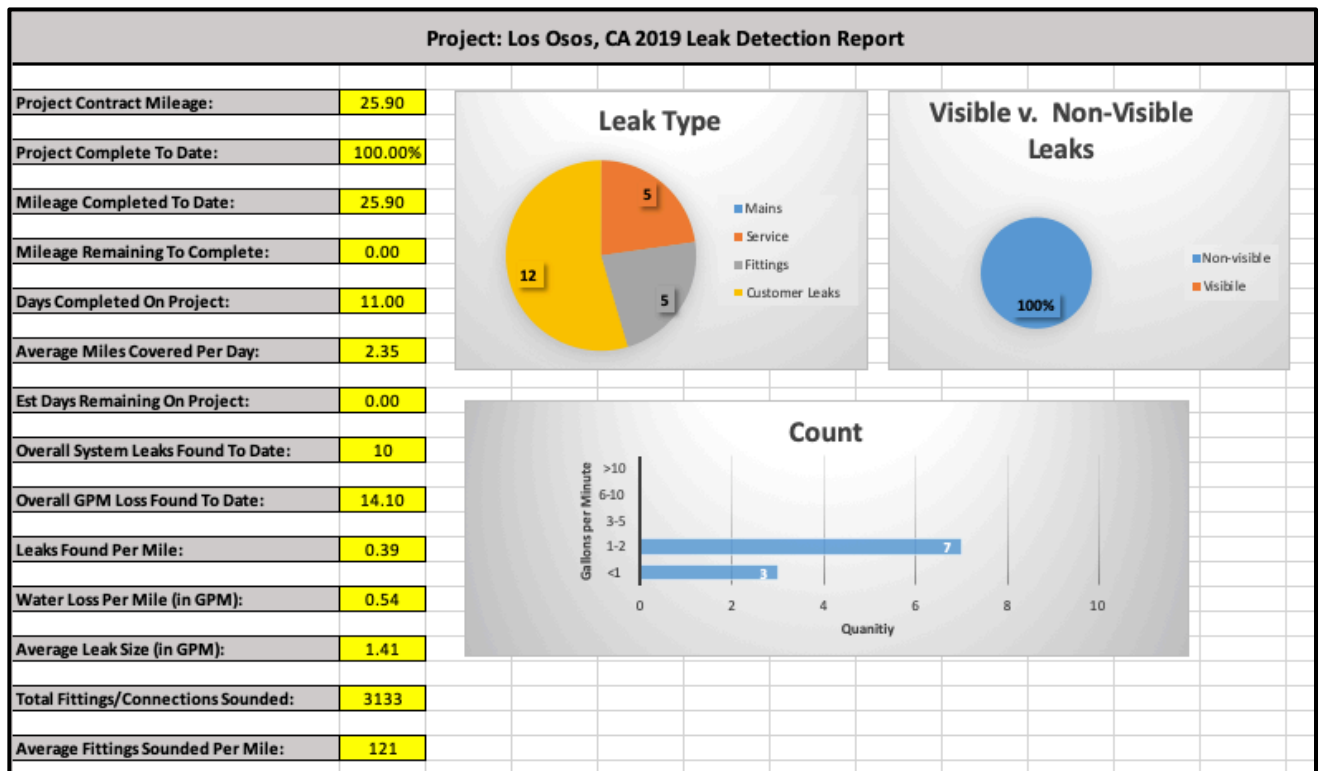


The above project group interactive dashboard was made available to the utility personnel during the project for progress tracking and information. It displays the progress map of the survey areas covered as well as a few key project statistics.

Additionally, the leak pinpointed was recorded and submitted via email on a Leak Card. For your records, we have compiled the leak card into “Appendix C” of this report.

RESULTS

In total, 10 distribution leaks were confirmed, and 12 suspected customer side leaks were identified while conducting the leak detection survey.



The table above displays the “Summary” tab of our excel project log that was submitted via email and is also added as Appendix A to this summary. It includes the number and type of leaks confirmed where main, service and fitting leaks are considered distribution leaks, as well as other summarized data collected throughout the project.

For your records, and ease of reference, we have compiled the daily excel log that contains the survey results, progress and findings into Appendix A, the GIS .shp file information into Appendix B, and cumulative leak cards into Appendix C.



Appendix A summarizes the project progress and results, as well as details any source of NRW found within the system. When classifying the leak type, distribution leaks include all main, fittings (hydrant, service, blow off etc) and valve leaks. Appendix A is broken into the following tabs:

- **Summary:** This tab summarizes all information about the project status and details within the file in a dashboard type overview.
- **Daily Report:** This tab contains information that recaps the daily distance covered as well as the type, quantity & estimated water loss (in gallons per minute) for any leakage found for each day. Also included are location notes that pertain to the general area investigated.
- **Weekly Report:** This tab is a compilation of the data from the “Daily Report” tab and other project details for each week that MWAM is on site. This tab also contains a breakdown of all distribution leaks reported into their respective leak type.
- **Leak Spreadsheet:** This tab includes all details for leakage identified (Leak Card generated) to date on the project, which was presented to your staff daily at a minimum. It is included in the final report as an easy reference of all the specifics for each leak.
- **Customer Leaks:** This tab lists the location and quantity of all suspected/identified customer side leaks discovered throughout the project along with notes pertaining to the condition and their possible effect on NRW.
- **System Notes:** This tab provides information on any system defects or concerns found during the project that we want to bring to your attention. This information may or may not be related to NRW reduction but is generally useful for your distribution upkeep and maintenance.

Please note the estimated gallons per minute detailed in Appendix A are estimated based on the experience of our Project Managers and therefore cannot be guaranteed as 100% accurate. For more accurate results, the type of leak would need to be determined, the size of split/hole, and pressure at the leak site once exposed and repaired. We welcome feedback on all leaks that are exposed so that we can adjust our data as necessary for more accurate future reporting and recommendations. Any information provided to us during the project has been adjusted and accounted for in these results.

Appendix B containing the GIS .shp file information for the project includes all points mapped out while on-site in the WGS 84 datum. This file includes:

- **Leak Point:** All distribution leaks that were reported and corresponding info.
- **System Notes:** All locations and information found during the survey regarding information on any system defects or concerns found that we want to bring to your attention. This information may or may not be related to NRW reduction but is generally useful for your distribution upkeep and maintenance.
- **Customer Side Leak:** All locations and supporting information for all customer side leaks reported for the project.
- **Progress Points:** All point features displaying the daily progress of the leak technicians throughout the project.



Appendix C contains all of the leak cards that were submitted daily for the project compiled into a single PDF for ease of reference.

CONCLUSIONS/RECOMMENDATIONS

The utility currently has a stated annual production figure of 166,357,000 gallons from July of 2018 to June of 2019 and a consumption total of 145,245,000 gallons over the same time period. This equates to roughly 316 gallons per minute (GPM) and 276 gallons per minute (GPM) respectively, denoting a non-revenue water (NRW) figure of 13% or approximately 41 GPM. This is the total losses for the system as a whole including both “real” and “apparent” losses. During the course of the survey an approximate 14.1 GPM was located. This represents an estimated 34% of the reported NRW figure. These numbers are estimates and may fluctuate following feedback of their excavation and repair. Given these findings, it would seem that apparent losses may also constitute a portion of the figures being observed and need to be better understood. Below are several items that can be conducted internally or with the assistance of our personnel, which may help to quantify this information in a meaningful way and provide a more thorough data set from which to enable best management practices.

- A standard AWWA non-revenue water audit should be conducted annually. An audit of the distribution system’s production and consumption figures is recommended in accordance with the AWWA standard practices to give confidence in the data being generated. Data integrity before moving forward with other activities is paramount to maximizing revenue effectiveness and prioritizing future endeavors. Factors such as; meter inaccuracies, systemic data handling errors, software glitches, along with unmetered or unauthorized usage can all contribute to a system’s non-revenue water. These factors constitute what is known as “apparent loss” as opposed to “real loss” (leaks). The audit’s matrixes and calculations for these items based on the utilities specific information can help to gauge the validity of the data and point to areas of potential discrepancies. This can help to clarify areas of issue and increase knowledge of the system, what drives the data and how it fits into the larger picture of the utility along with the roles played by both “real” and “apparent” losses.
- Analysis of the minimum nighttime flow values (drop) of the systems storage tanks is strongly recommended at a time while the well pumps are non-active. Typically, 2 am to 4 am during the week or Sundays is the ideal time to gather this information. This will help to ascertain the amount of actual real losses which may be occurring in the system at a given time. It should be noted that customer side leakage will also play a role in these figures. Customer leaks which are being tracked through the meters will not constitute non-revenue water but “real” losses in the distribution system will never exceed the data



generated by this activity. This information will also aid in the review and reconciling of the distribution system's non-revenue water figures and add meaning to the aforementioned AWWA audit and provide a better understanding of the distribution system's condition and needs.

- A test of the systems production meters should be considered as part of an overall long-term approach to asset management and to ensure accurate data. Even slight inaccuracies of a system's production meters can distort non-revenue water values. This can be especially impactful in systems with lower total volumes as these slight differences will play an outsized role when viewed as a percentage of the overall production figures. Depending on the hydraulics of the pump and meter setup configuration, even newer meters can be found to have inaccuracies. Periodic testing of the master meters should be performed along with other large meters in the system (2 inches or larger). This should be conducted on a rotating basis, whereby a portion of these would be tested annually. After several years this would encompass all large meters in the system and can then be repeated every few years.
- Regarding the Advanced Metering Infrastructure (AMI) and the issue which was described to have occurred related to the endpoints, whereby a discrepancy was observed to take place between the actual reading of the meter and what was being reported by the end point. This could have a few possible causes. The endpoints programming parameters are very specific for each model type based on its register and the unique settings that need to be present to ensure proper, accurate functionality. This is especially important when using third party endpoints as opposed to ones which are matching the register manufacturer type. An AMI network is a powerful tool for a distribution system to help ensure accurate timely data, provide better customer services and enable personnel to focus on other tasks at hand.
- GIS mapping of residential meter locations. Meters can be difficult to locate at times despite a utilities' best efforts and it is recommended that the meter locations be populated to a GIS platform. This can have several benefits to the distribution system ranging from enabling third parties and contractors, such as Matchpoint, to have certainty that all assets in a given area have been properly inspected, to helping new hires more quickly gain a confident understanding of the system. It can also be a very valuable tool when dealing with other departments which maybe operating within the utilities' water distribution network. This data can be collected as part of any future leak detection surveys as a combined service or on its own. If the utility wishes to collect this information itself, it would only be a matter of converting the data to a GIS mapping program for display and utilization.



MATCHPOINT

RECOMMENDED LIST OF EQUIPMENT

Based on the investigation observations we have also compiled a list of the equipment that we feel could benefit you.. With the variations of infrastructure within the district's water system, there are many options available for better understanding the system's performance and identifying leakage in a proactive manner.



Leak Detection Equipment:

- Mikron3 wireless ground microphone system for 'sounding' to complement the Phocus 3 loggers and for confirmation of any leak. Ground Microphones are utilized to sound meters and other connections to identify leakage. Once you have identified the areas where you have potential leaks this device would enable you to pinpoint and confirm exactly (within 3 feet) where any leak is on your distribution system. This is a crucial tool in any leak detection survey.
- Eureka 3 Correlator, a real time correlator, for identifying the location of a suspected leak noise. This correlator is designed for ease of use and efficient data manipulation in the field.
- The new Enigma 3m combines localization and correlation technology into one leak detection system. These fixed-based acoustic noise loggers require no above ground assets and detect leaks remotely using cost effective GPRS/3G communication, sending data directly from the field to the web-based software. If leakage is evident, the loggers will automatically perform time-synced correlations to accurately pinpoint the exact location of the leak(s).
- Phocus 3m fixed-based acoustic noise logging system detects leaks remotely using cost effective GPRS/3G communication, sending data directly from the field to your PC, to the cloud, or to the host website. These loggers are dispersed across the water network, allowing for continual monitoring of the integrity of your distribution system.
- Phocus 3 Acoustic Noise Loggers for localizing leaks either on a drive by and/or Lift N Shift operation. A "Lift N Shift", approach enables efficient identification of areas with high leakage and prioritizes where leak detection activities should be concentrated. These loggers record at three intervals during the night and can detect leak noise that would otherwise be overlooked during the day. They can be deployed across large areas and are suitable for permanent monitoring purposes.
- Enigma Correlating Noise Logger for non-real time correlation work in busy areas. This correlator will take three recordings during the night by default or can be set up to record at delayed intervals at any time during the day. It is a multipoint correlator, so it has the capability of doing multiple correlations over a large area.



- The Enigma hy-Q correlator, for pinpointing leaks on PVC and/or large (16” and above) mains by using hydrophones for increased performance.

The recommended equipment listed below can be offered as an in-house solution or as one of our services (DDS).

HYDREKA Integrated Measuring Systems:

www.hydreka.it

- The Hydrins 2® electromagnetic flow meter, developed by Hydreka, is an easily deployed and cost-effective flow meter providing highly accurate bi-directional measurement for water distribution systems and raw water pipelines.
- The Hydrins 2® can be used throughout the water distribution network:
 - Zoning and DMA management
 - Meter testing, pressure and night flow monitoring
 - Metering at water plants, treatment plants, pumping stations & reservoirs
 - Data Driven Leak Detection to Reduce Leak Run Time

LEAK DETECTION PROCESS & EQUIPMENT TRAINING

At MWAM we pride ourselves in supplying the best technology for all of your water management needs. But, however advanced the technology, the skill of the operator is vital. Each operator should understand the background to the technology being used and know the full features and capabilities of their equipment.

Training courses at MWAM are specifically designed to develop these skills and therefore ensure all operators have the knowledge and skill base required to use the equipment to its’ maximum potential.

Our training is executed by one of our Area Technical Support Representatives, who have a minimum of 5 years’ experience in conducting leak detection surveys with different varieties of cutting-edge leak detection equipment.

The training will be tailored to suit your specific needs and will focus on real, on-site, ‘hands-on’ scenarios to ensure that your personnel have the quickest learning curve possible. Please see a brief description below of what will be cover during our training courses.



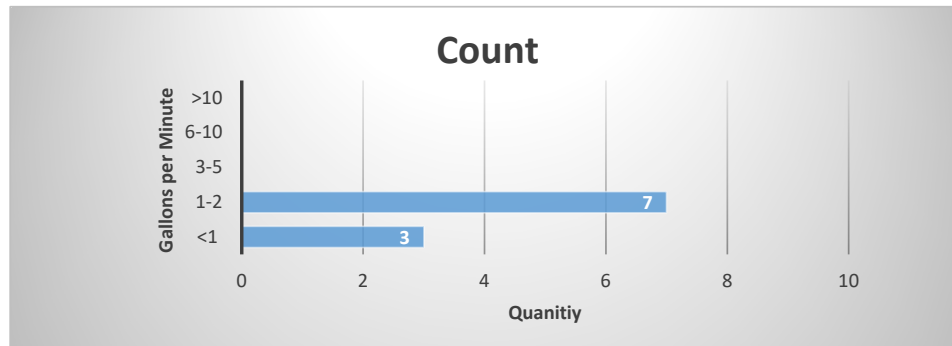
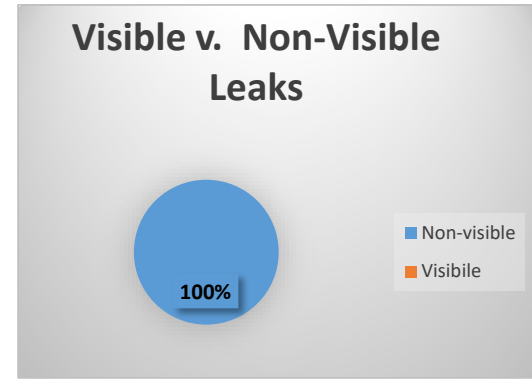
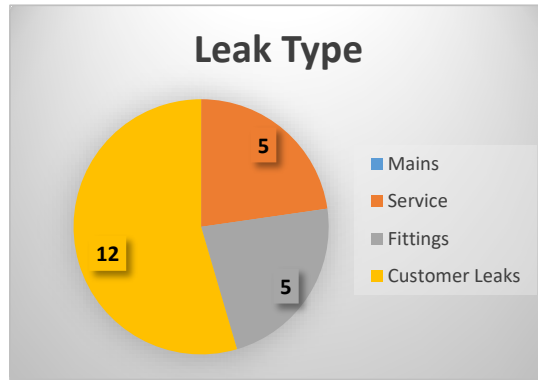
Topics that will be covered:

- Background to leak detection (including how noise travels & the physics behind leak detection)
- Assessment of areas
- Localizing leak noise (focusing on Acoustic Noise Logging and/or Electronic Listening Stick/Ground Mic)
- Pinpointing leakage (focusing on Leak Noise Correlator use)
- Confirmation of leakage (focusing on Advanced Ground microphone use)

Project: Los Osos, CA 2019 Leak Detection Report

| | |
|-------------------------------------|---------|
| Project Contract Mileage: | 25.90 |
| Project Complete To Date: | 100.00% |
| Mileage Completed To Date: | 25.90 |
| Mileage Remaining To Complete: | 0.00 |
| Days Completed On Project: | 11.00 |
| Average Miles Covered Per Day: | 2.35 |
| Est Days Remaining On Project: | 0.00 |
| Overall System Leaks Found To Date: | 10 |
| Overall GPM Loss Found To Date: | 14.10 |
| Leaks Found Per Mile: | 0.39 |
| Water Loss Per Mile (in GPM): | 0.54 |
| Average Leak Size (in GPM): | 1.41 |
| Total Fittings/Connections Sounded: | 3133 |
| Average Fittings Sounded Per Mile: | 121 |

Additional Project Info:
 25.9 miles of leak detection along the potable water distribution systems.



| Date | Week # | Miles Surveyed | Distribution Leaks | Cutomer Side Leaks | Estimated GPM | Notes |
|----------------------|--------|----------------|--------------------|--------------------|---------------|--|
| September 1, 2019 | 1 | 0.00 | 0 | 0 | 0.00 | MOB |
| September 2, 2019 | 1 | 0.00 | 0 | 0 | 0.00 | MOB |
| September 3, 2109 | 1 | 0.00 | 0 | 0 | 0.00 | MOB |
| September 4, 2019 | 1 | 1.50 | 0 | 0 | 0.00 | Kickoff, Santa Lucia Ave, Santa Ysabel Ave areas |
| September 5, 2019 | 1 | 3.00 | 0 | 0 | 0.00 | 1st St, 2nd St, 3rd St & poi follow up |
| September 6, 2019 | 1 | 3.00 | 1 | 2 | 1.00 | 4th St, 5th St & poi follow up |
| September 7, 2019 | 1 | 3.00 | 0 | 0 | 0 | 6th St, 7th St |
| Weekly Totals | | 10.50 | 1 | 2 | 1.00 | |
| September 8, 2019 | 2 | 0.00 | 0 | 0 | 0.00 | Off Day |
| September 9, 2019 | 2 | 3.00 | 0 | 0 | 0.00 | 8th St, 9th St & poi follow up |
| September 10, 2019 | 2 | 3.00 | 2 | 0 | 2.50 | 10th St, 11th St & poi follow up |
| September 11, 2019 | 2 | 3.00 | 0 | 0 | 0.00 | 12th St, 13th St & poi follow up |
| September 12, 2019 | 2 | 3.00 | 0 | 1 | 0.00 | 14th St, 15th St & poi follow up |
| September 13, 2019 | 2 | 3.00 | 2 | 5 | 0.60 | 16th St, 17th St & poi follow up |
| September 14, 2019 | 2 | 0.40 | 0 | 0 | 0.0 | 18th St, Bush Dr, areas & poi follow up |
| Weekly Totals | | 15.40 | 4 | 6 | 3.10 | |
| September 15, 2019 | 3 | 0.0 | 0 | 0 | 0.00 | Off Day |
| September 16, 2019 | 3 | 0.00 | 0 | 0 | 0.00 | Close Out Meeting |
| September 17, 2019 | 3 | 0.00 | 5 | 4 | 10.00 | Report Updating |
| September 18, 2019 | 3 | | | | | NA |
| September 19, 2019 | 3 | | | | | NA |
| September 20, 2019 | 3 | | | | | NA |
| September 21, 2019 | 3 | | | | | NA |
| Weekly Totals | | 0.00 | 5 | 4 | 10.00 | |
| Grand Totals | | 25.90 | 10 | 12 | 14.10 | |

Mileage subject to change based on Information Provided

| Week # | Techs | Week Ending | Days Spent | Total Hours | Miles Covered | Fittings Sounded | Mains | Service Pipe | Fittings/Hydrants | CSL | Distribution Leaks | Total Number of Leaks | Est Lost GPM Found |
|---------------|-------|-------------|------------|-------------|---------------|------------------|----------|--------------|-------------------|-----------|--------------------|-----------------------|--------------------|
| 1 | AD | 9/7/2019 | 4 | 30 | 10.50 | 774 | 0 | 0 | 1 | 2 | 1 | 3 | 1.00 |
| 2 | AD | 9/14/2019 | 6 | 48 | 15.40 | 2359 | 0 | 0 | 4 | 6 | 4 | 10 | 3.10 |
| 3 | AD | 9/21/2019 | 1 | 0 | 0.00 | 0 | 0 | 5 | 0 | 4 | 5 | 9 | 10.00 |
| | | | | | | | | | | | | | |
| Totals | | | 11 | 78 | 25.9 | 3133 | 0 | 5 | 5 | 12 | 10 | 22 | 14.1 |

| Week # | Leak Number | Leak Address | Leak Date | Leak Type | Fitting Type | Urgency | Ground Surface | Pipe Material | Pipe Size | LD Method (1) | LD Method (2) | LD Method (3) | LD Method (4) | Tech | Visible Water | Marked Up | Submitted | Repaired? | MPT EST GPM | Leak Description | Leak Decibel | Longitude | Latitude |
|-------------------|-------------|--------------------------|-----------|-----------|--------------|---------|----------------|---------------|-----------|---------------|--------------------------|--------------------------|---------------|------|---------------|-----------|-----------|-----------|-------------|--|--------------|-------------|-------------|
| 1 | 1 | Santa Maria Ave & 4th St | 6-Sep-19 | Fitting | Hydrant | Minimal | Soil | AC | 6 | Sounding | NA | NA | NA | AD | No | Yes | Yes | No | 1 | Elevated noise detected on hydrant. leak noise present in barrel. Valve lower decibel level, sound profile appears to indicator hydrant leaking or not fully sealing. | 79 | -120.838611 | 35.32787243 |
| 2 | 2 | 669 Santa Lucia Ave | 10-Sep-19 | Fitting | Meter | Minimal | Landscaping | Brass | 0.75 | Sounding | Valve Isolation_Shut Off | Visible Observation | NA | AD | No | No | Yes | No | 0.5 | Elevated noise detected on meter 13371169, noise dissipated after shut off. Visible water appears to be leaking from outlet meter nut in box. | 52 | -120.840521 | 35.33176648 |
| 2 | 3 | 7th St and Pismo Ave | 10-Sep-19 | Fitting | Hydrant | Minimal | Grass | AC | 6 | Sounding | Valve Isolation_Shut Off | NA | NA | AD | No | No | Yes | Yes | 2 | Elevated noise detected on hydrant. Noise dissipated following exercising of hydrant. | 99 | -120.83536 | 35.32247574 |
| 2 | 4 | 1939 8th St | 13-Sep-19 | Fitting | Meter | Minimal | Landscaping | Brass | 0.75 | Sounding | Visible Observation | Valve Isolation_Shut Off | NA | AD | No | No | Yes | No | 0.1 | Meter 17810202 Elevated noise detected on service. Visible water appears to be leaking from curb stop and/or inlet meter nut in box. Noise remained after isolation possibly due to leakage at curbstop. | 70 | -120.834464 | 35.31620671 |
| 2 | 5 | 951-959 Santa Ynez Ave | 13-Sep-19 | Fitting | Meter | Minimal | Soil | Brass | 0.75 | Sounding | Visible Observation | Valve Isolation_Shut Off | NA | AD | No | No | Yes | No | 0.5 | Meter 14161296 Elevated noise detected on service. Noise dissipated following shut off. Visible water appears to be leaking from outlet meter nut in box. | 72 | -120.834299 | 35.31475559 |
| 3 | 6 | 1185 1st St | 17-Sep-19 | Service | NA | Minimal | Grass | HDPE | 1 | Sounding | Valve Isolation_Shut Off | NA | NA | AD | No | No | Yes | No | 2 | Faint noise detected on Meter 16681543, noise remained following shut off. Correlations results inconclusive. No ground noise observed. No elevated noise present on surrounding connections. | 38 | -120.842154 | 35.33060098 |
| 3 | 7 | 1315 5th St | 17-Sep-19 | Service | NA | Minimal | Asphalt | PVC | 1 | Sounding | Valve Isolation_Shut Off | NA | NA | AD | No | No | Yes | No | 2 | Elevated noise detected on Meter 12670996, noise present following shut off. slight ground noise near center of road. Recommend replacing service. | 68 | -120.837761 | 35.32782458 |
| 3 | 8 | 1415 6 th St | 17-Sep-19 | Service | NA | Minimal | Asphalt | PVC | 1 | Sounding | Valve Isolation_Shut Off | NA | NA | AD | No | Yes | Yes | No | 2 | Elevated noise detected on Meter 17046424 , noise present following shut off. However, curbstop begins to leak when placed in "off" position. Recommend excavating near meter boxes an pulling service. | 72 | -120.836609 | 35.32603622 |
| 3 | 9 | 1397 7th St | 17-Sep-19 | Service | NA | Minimal | Asphalt | PVC | 1 | Sounding | Valve Isolation_Shut Off | NA | NA | AD | No | No | Yes | No | 2 | Elevated noise detected on Meter 49628118, noise remained following shut off. Recomend excavating near meter box and pulling service. | 62 | -120.835526 | 35.32645323 |
| 3 | 10 | 1308 11th St | 17-Sep-19 | Service | NA | Minimal | Grass | HDPE | 1 | Sounding | Valve Isolation_Shut Off | NA | NA | AD | No | No | Yes | No | 2 | Elevated noise detected on Meter 18183319, noise remained following shut off. Recommend excavating at meter box and pulling service. Both meters also appears to have customer side leakage present. | 68 | -120.83088 | 35.32787986 |
| Total GPM: | | | | | | | | | | | | | | | | | | | | 14.1 | | | |

Customer Leaks

Yellow = Appear to not register

| Number | Location/Comments | Technician |
|-----------------------------------|---|------------|
| 1 | 688 Santa Lucia Ave. Meter 13371166 Slight elevated noise. Usage indicator appears to be slowly running continuously for several day. Unable to contact resident to confirm. | AD |
| 2 | 1131 Pasadena Dr Meter 13371084 Elevated noise detected. Noise dissipated following shut off. Usage indicator appears to show slow continuous usage. Unable to contact resident to confirm. | AD |
| 3 | 1266 2nd St. Meter 16929737 Elevated noise detected on service, stronger on backflow. Appears to not be registering. | AD |
| 4 | 1346 3rd St Meter 13371127 Elevated noise detected. Curb stop found to be in off position. Indicator shows usage. Curb stop possibly malfunctioning. Unable to access property to confirm. | AD |
| 5 | 1373 5th St Meter 12670978 No noise present on meter, but shows continual usage over several days. Unable to contact resident to confirm. | AD |
| 6 | 1472 6th St Meter 17046461 Elevated noise detected. Noise dissipated following shut off. Visible water running from nearby hose continually for several days. | AD |
| 7 | 1925 7th Sr Meter 12671083 Elevated noise detected. Noise dissipated following shut off. Visible water appears to be leaking outside of meter box. | AD |
| 8 | 1499 8th St Meter 18808304 Elevated noise detected on service, dissipated after shut off. Continuous usage indicated over several days. Unable to contact resident to confirm. | AD |
| 9 | 1638 9th St Meter 18143749 Elevated noise detected, dissipated after shut off. Appears to not be registering. No visible water. | AD |
| 10 | 1920 12th St Meter 49741750 Elevated noise detected, noise dissipated after shut off. Visible water appears to be leaking from customer side connection just outside of meter box. | AD |
| 11 | 1815 12th St Meter 49662412 Elevated noise detected on service, dissipated after shut off. No visible water. | AD |
| 12 | 1751 13th St Elevated noise detected on meter 18143763, noise dissipated after shut off. No visible water. Appears to not be registering. | AD |
| Total Customer Leaks Found | 12 | |

| System Notes Location | | |
|----------------------------------|---|------------|
| System Notes Location | Notes | Technician |
| 1128 Third St | Unable to locate meter | AD |
| 1155 pasadena | unable to locate meter | AD |
| 1167 Pasadena | unable to locate meter | AD |
| Baywood Way & Pasadena Dr | unable to locate meters | AD |
| first st. (bay inn) | unable to locate meter | AD |
| 2015 11th St | Strong noise present on service. Noise remained following shut off. Unable to contact residents. Usage indicator appears to show water moving both directions through meter despite the presence of a backflow device. Meter also shows constant low usage. Possible electro-mechanical environmental noise | AD |
| Los Olivos & 9th St | Elevated noise detected. Shut off valves of PRV continued to display elevated noise level following their closure to attempt to isolate the PRV. Recommend following up further to determine cause and whether valves are able to fully seat. | AD |
| 1710 9th St | Elevated noise present on service. Noise remained following shut off. No meter creep detected upon reactivation. Possible electro-mechanical environmental noise in area. Recommend following up further. | AD |
| Total Project Notes Found | 8 | |

| Shut Off Location | |
|----------------------------------|----------|
| Shut Off Location | Notes |
| | |
| Total shut Offs Requested | 0 |



**Matchpoint Water Asset Management
Water That's the Point**

2919 Orville Wright Way
Suite 100
Wilmington, NC 28405

Leak Card 1

| | | | | | | | | | |
|--|--|--------------------------|-----------------------|-------------------|--|--|-----------------------------|------------------------|-----------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | Santa Maria Ave & 4th St | | | |
| Urgency: | Minimal | Surface Material: | Soil | Leak Type: | Fitting | Pipe Size: | 6 | Pipe Material: | AC |
| Leak Detection Method: | Sounding | | Visible Water: | No | DB level: | 79 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 1 | | Vicinity Map -120.83863 35.32804 Leak | | | | |
| | Gallons Per Day: | | 1440 | | | | | | |
| | Gallons Per Month: | | 43800 | | | | | | |
| | Gallons Per Year: | | 525600 | | | | | | |
| Leak Description & Comments: | | | | | | | | | |
| <p>Elevated noise detected on hydrant, leak noise present in barrel. Valve lower decibel level, sound profile appears to indicator hydrant leaking or not fully sealing.</p> | | | | | | | | | |
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| | | | | | | | | | |
| Project Manager: | Austin Deaver | | | | Date: | Sep 6, 2019 | | | |



**Matchpoint Water Asset Management
Water That's the Point**

2919 Orville Wright Way
Suite 100
Wilmington, NC 28405

Leak Card 2

| | | | | | | | | | |
|--|--|--------------------------|-----------------------|-------------------|--|----------------------------|-----------------------------|------------------------|--------------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 669 Santa Lucia Ave | | | |
| Urgency: | Minimal | Surface Material: | Landscaping | Leak Type: | Fitting | Pipe Size: | 0.75 | Pipe Material: | Brass |
| Leak Detection Method: | Sounding Valve Isolation_Shut Off Visible Observation | | Visible Water: | No | DB level: | 52 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 0.5 | | Vicinity Map -120.84048 35.33176 Leak | | | | |
| | Gallons Per Day: | | 720 | | | | | | |
| | Gallons Per Month: | | 21900 | | | | | | |
| | Gallons Per Year: | | 262800 | | | | | | |
| Leak Description & Comments: | | | | | | | | | |
| <p>Elevated noise detected on meter 13371169, noise dissipated after shut off. Visible water appears to be leaking from outlet meter nut in box.</p> | | | | | | | | | |
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| Project Manager: | Austin Deaver | | | | Date: | Sep 10, 2019 | | | |



Matchpoint Water Asset Management
Water That's the Point

2919 Orville Wright Way
 Suite 100
 Wilmington, NC 28405

Leak Card 3





| | | | | | | | | | |
|--|--|--------------------------|-----------------------|-------------------|---|-----------------------------|-----------------------------|------------------------|-----------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 7th St and Pismo Ave | | | |
| Urgency: | Minimal | Surface Material: | Grass | Leak Type: | Fitting | Pipe Size: | 6 | Pipe Material: | AC |
| Leak Detection Method: | Sounding Valve Isolation_Shut Off | | Visible Water: | No | DB level: | 99 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 2 | | Vicinity Map -120.8354 35.32244 Leak | | | | |
| | Gallons Per Day: | | 2880 | | | | | | |
| | Gallons Per Month: | | 87600 | | | | | | |
| | Gallons Per Year: | | 1051200 | | | | | | |
| Leak Description & Comments: | | | | | | | | | |
| <p align="center">Elevated noise detected on hydrant. Noise dissipated following exercising of hydrant.</p> | | | | | | | | | |
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| Project Manager: | Austin Deaver | | | | Date: | Sep 10, 2019 | | | |



**Matchpoint Water Asset Management
Water That's the Point**

2919 Orville Wright Way
Suite 100
Wilmington, NC 28405

Leak Card 4




| | | | | | | | | | |
|---|---|--------------------------|-----------------------|-------------------|--|-------------------|-----------------------------|-----------------------|-------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 1939 8th St | | | |
| Urgency: | Minimal | Surface Material: | Landscaping | Leak Type: | Fitting | Pipe Size: | 0.75 | Pipe Material: | Brass |
| Leak Detection Method: | Sounding Visible Observation Valve Isolation_Shut Off | | Visible Water: | No | DB level: | 70 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 0.1 | | Vicinity Map -120.83454 35.31598 Leak  | | | | |
| | Gallons Per Day: | | 144 | | | | | | |
| | Gallons Per Month: | | 4380 | | | | | | |
| | Gallons Per Year: | | 52560 | | | | | | |
| Leak Description & Comments: | | | | | | | | | |
| <p>Meter 17810202 Elevated noise detected on service. Visible water appears to be leaking from curb stop and/or inlet meter nut in box. Noise remained after isolation possibly due to leakage at curbstop.</p> | | | | | | | | | |
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| Project Manager: | Austin Deaver | | | | Date: | Sep 13, 2019 | | | |



**Matchpoint Water Asset Management
Water That's the Point**

2919 Orville Wright Way
Suite 100
Wilmington, NC 28405

Leak Card 5





| | | | | | | | | | |
|--|--|--------------------------|-----------------------|-------------------|--|-------------------------------|-----------------------------|------------------------|--------------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 951-959 Santa Ynez Ave | | | |
| Urgency: | Minimal | Surface Material: | Soil | Leak Type: | Fitting | Pipe Size: | 0.75 | Pipe Material: | Brass |
| Leak Detection Method: | Sounding Visible Observation Valve Isolation_Shut Off | | Visible Water: | No | DB level: | 72 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 0.5 | | Vicinity Map -120.83431 35.31471 Leak | | | | |
| | Gallons Per Day: | | 720 | | | | | | |
| | Gallons Per Month: | | 21900 | | | | | | |
| | Gallons Per Year: | | 262800 | | | | | | |
| Leak Description & Comments: | | | | | | | | | |
| <p>Meter 14161296 Elevated noise detected on service. Noise dissipated following shut off. Visible water appears to be leaking from outlet meter nut in box.</p> | | | | | | | | | |
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| Project Manager: | Austin Deaver | | | | Date: | Sep 13, 2019 | | | |



Matchpoint Water Asset Management
Water That's the Point

2919 Orville Wright Way
Suite 100
Wilmington, NC 28405

Leak Card 6

| | | | | | | | | | |
|---|---|--------------------------|-----------------------|-------------------|--|-------------------|-----------------------------|-----------------------|------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 1185 1st St | | | |
| Urgency: | Minimal | Surface Material: | Grass | Leak Type: | Service | Pipe Size: | 1 | Pipe Material: | HDPE |
| Leak Detection Method: | Sounding Valve Isolation_Shut Off | | Visible Water: | No | DB level: | 38 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 2 | | Vicinity Map -120.84215 35.33051 Leak  | | | | |
| | Gallons Per Day: | | 2880 | | | | | | |
| | Gallons Per Month: | | 87600 | | | | | | |
| | Gallons Per Year: | | 1051200 | | | | | | |
| Leak Description & Comments: | | | | | | | | | |
| Faint noise detected on Meter 16681543, noise remained following shut off. Correlations results inconclusive. No ground noise observed. No elevated noise present on surrounding connections. | | | | | | | | | |
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| | | | | |  | | | | |
| Project Manager: | Austin Deaver | | | | Date: | Sep 17, 2019 | | | |



**Matchpoint Water Asset Management
Water That's the Point**

2919 Orville Wright Way
Suite 100
Wilmington, NC 28405

Leak Card 7




| | | | | | | | | | |
|---|--|--------------------------|-----------------------|-------------------|--|---------------------|-----------------------------|------------------------|------------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 1315 5th St | | | |
| Urgency: | Minimal | Surface Material: | Asphalt | Leak Type: | Service | Pipe Size: | 1 | Pipe Material: | PVC |
| Leak Detection Method: | Sounding Valve Isolation_Shut Off | | Visible Water: | No | DB level: | 68 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 2 | | Vicinity Map -120.83775 35.32789 Leak | | | | |
| | Gallons Per Day: | | 2880 | | | | | | |
| | Gallons Per Month: | | 87600 | | | | | | |
| | Gallons Per Year: | | 1051200 | | | | | | |
| Leak Description & Comments: | | | | | | | | | |
| Elevated noise detected on Meter 12670996, noise present following shut off. slight ground noise near center of road. Recommend replacing service. | | | | | | | | | |
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| Project Manager: | Austin Deaver | | | | Date: | Sep 17, 2019 | | | |



Matchpoint Water Asset Management
Water That's the Point

2919 Orville Wright Way
 Suite 100
 Wilmington, NC 28405

Leak Card 8

| | | | | | | | | | |
|---|--|--------------------------|-----------------------|-------------------|--|---------------------|-----------------------------|------------------------|------------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 1415 6 th St | | | |
| Urgency: | Minimal | Surface Material: | Asphalt | Leak Type: | Service | Pipe Size: | 1 | Pipe Material: | PVC |
| Leak Detection Method: | Sounding Valve Isolation_Shut Off | | Visible Water: | No | DB level: | 72 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 2 | | Vicinity Map -120.83667 35.32607 Leak | | | | |
| | Gallons Per Day: | | 2880 | | | | | | |
| | Gallons Per Month: | | 87600 | | | | | | |
| | Gallons Per Year: | | 1051200 | | | | | | |
| Leak Description & Comments: <p>Elevated noise detected on Meter 17046424 , noise present following shut off. However, curbstop begins to leak when placed in "off" position. Recommend excavating near meter boxes an pulling service.</p> | | | | | | | | | |
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| Project Manager: | Austin Deaver | | | | Date: | Sep 17, 2019 | | | |



Matchpoint Water Asset Management
Water That's the Point

2919 Orville Wright Way
 Suite 100
 Wilmington, NC 28405

Leak Card 9




| | | | | | | | | | |
|--|--|--------------------------|-----------------------|-------------------|--|---------------------|-----------------------------|------------------------|------------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 1397 7th St | | | |
| Urgency: | Minimal | Surface Material: | Asphalt | Leak Type: | Service | Pipe Size: | 1 | Pipe Material: | PVC |
| Leak Detection Method: | Sounding Valve Isolation_Shut Off | | Visible Water: | No | DB level: | 62 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 2 | | Vicinity Map -120.83553 35.32638 Leak | | | | |
| | Gallons Per Day: | | 2880 | | | | | | |
| | Gallons Per Month: | | 87600 | | | | | | |
| | Gallons Per Year: | | 1051200 | | | | | | |
| Leak Description & Comments: | | | | | | | | | |
| Elevated noise detected on Meter 49628118, noise remained following shut off. Recommend excavating near meter box and pulling service. | | | | | | | | | |
|  | | | | |  | | | | |
|  | | | | |  | | | | |
| Project Manager: | Austin Deaver | | | | Date: | Sep 17, 2019 | | | |



Matchpoint Water Asset Management
Water That's the Point

2919 Orville Wright Way
 Suite 100
 Wilmington, NC 28405

Leak Card 10

| | | | | | | | | | |
|--|--|--------------------------|-----------------------|-------------------|--|---------------------|-----------------------------|------------------------|-------------|
| Project: | Los Osos, Ca Sept 2019 Leak Detection Investigation | | | | Address: | 1308 11th St | | | |
| Urgency: | Minimal | Surface Material: | Grass | Leak Type: | Service | Pipe Size: | 1 | Pipe Material: | HDPE |
| Leak Detection Method: | Sounding Valve Isolation_Shut Off | | Visible Water: | No | DB level: | 68 | Person Submitted To: | Mr. Jose Acosta | |
| MPT Estimated GPM | Gallons Per Minute: | | 2 | | Vicinity Map -120.83089 35.3279 Leak | | | | |
| | Gallons Per Day: | | 2880 | | | | | | |
| | Gallons Per Month: | | 87600 | | | | | | |
| | Gallons Per Year: | | 1051200 | | | | | | |
| Leak Description & Comments: Elevated noise detected on Meter 18183319, noise remained following shut off. Recommend excavating at meter box and pulling service. Both meters also appears to have customer side leakage present. | | | | | | | | | |
|  | | | | |  | | | | |
|  | | | | | | | | | |
| Project Manager: | Austin Deaver | | | | Date: | Sep 17, 2019 | | | |





October 16, 2019

TO: LOCSD Utilities Advisory Committee

FROM: Ron Munds, General Manager

SUBJECT: Agenda Item 5 – 10/16/19 UAC Meeting

Consider a request from the property owners of 1748 Mountain View Drive to develop a parcel within the District's water service area using an existing well.

President
Marshall E. Ochylski

Vice President
Charles L. Cesena

Directors
Matthew D. Fourcroy
Vicki L. Milledge
Christine M. Womack

General Manager
Ron Munds

District Accountant
Robert Stilts, CPA

Unit Chief
Scott M. Jalbert

Battalion Chief
George Huang

Mailing Address:
P.O. Box 6064
Los Osos, CA 93412

Offices:
2122 9th Street, Suite 110
Los Osos, CA 93402

Phone: 805/528-9370
FAX: 805/528-9377

www.losososcsl.org

DESCRIPTION

The property owners of parcel number 074-281-016, 1748 Mountain View Drive are requesting a variance approval from the District to construct a single family residence on their 0.8 acre lot. The parcel is outside the Prohibition Zone but within the District's water service area and has an established onsite well.

COMMITTEE RECOMMENDATION

Staff is recommending that the Board consider three proposed alternative and provide direction to staff on the preferred option with Alternative 2 being the staff recommendation.

Motion: I move to recommend to the Board of Directors that the Board allow the project to proceed and provide a Conditional Intent to Serve Letter with the conditions that the project install a water service line to the property, a meter box and connect to the water system when the District exits the Stage III drought restrictions.

DISCUSSION

District staff in April 2019 received an inquiry from Mr. and Mrs. Krause, the property owners of 1748 Mountain View Drive, asking if the District would object to their parcel being developed using the existing well on the property as their potable source of water. This property is unique in that it is outside the Prohibition Zone but inside the District's water service area and has its own County certified onsite well.

The initial response from the District to the Krause's was that the District would have no objections to the requested variance and allow the well to be the sole water source given the unique circumstance described above, the fact that the District code is silent on allowing or disallowing the use of wells in the District's service area for new development and that the District is not providing new water services because of the Stage III drought declaration. When the property owners submitted their building application and the County Building Division requested the "official" approval of the variance to not connect to the District's water system in September 2019, it was evident that staff did not have the authority to make this decision without Board direction.

Upon further discussions with the Krause's, they would still like to proceed with their project using their well but are agreeable to connect to the District's water system when new service is available.

Taking into account the circumstances, staff has three alternatives for the Board to consider to address the Krause's request to proceed with their project with the District's approval:

Alternative 1. Approve the requested variance and allow the Krause's to use their well as their sole potable water supply source without any future connection to the District's water system;

Alternative 2. Provide a Conditional Intent to Serve approval with the conditions that the project install a water service line to the property, a meter box and connect to the water system when the District exits the Stage III drought restrictions; or

Alternative 3. Deny the variance request at this time and have the Krause's wait until water service is available from the District.

OTHER RELEVANT INFORMATION

It is important to note that the Krause's are subject to all County Title 19 requirements to offset the estimated water use of their proposed single family home at a 2:1 ratio (water supply neutral), adhere to the County's water efficient landscape standards and all other codes that apply to this type of development. Additionally, of the six developed parcels on this block of Mountain View Drive, four have water service and two do not and use private wells for their water needs. Of the four that have water service, two have wells and either intermittently or rarely use the District's water service but do pay the base fee.

Attachments





October 16, 2019

TO: LOCSO Utility Advisory Committee
FROM: Ron Munds, General Manager
SUBJECT: **Agenda Item 6 – 10/16/2019 UAC Meeting**
Award contract to Water Systems Consulting, Inc. for design and survey services for the South Bay Transmission Main Project

DESCRIPTION

President
Marshall E. Ochylski

At the July 11, 2019 Board meeting, the Board received a report detailing the need to move water from the South Bay well site directly to the main zone which serves the majority of the District's water customers.

Vice President
Charles L. Cesena

At that meeting, the Board approved the release of a Request for Proposal (RFP) for the design and survey services needed to complete the project. This report is requesting support from the UAC to award the contract to perform these services to the most responsive proposer, Water System Consulting, Inc. (WSC).

Directors
Matthew D. Fourcroy
Vicki L. Milledge
Christine M. Womack

SUMMARY OF STAFF RECOMMENDATION

General Manager
Renee Osborne

Motion: I move to recommend to the Board of Directors that the Board award a contract to Water Systems Consulting, Inc. in the amount not to exceed the sum of \$67,747.00 to perform the scope of work provided in Exhibit A to the attached Professional Services Agreement.

District Accountant
Robert Stilts, CPA

DISCUSSION

Unit Chief
Scott M. Jalbert

The District Engineer prepared a RFP for design and survey services needed to prepare for construction and implementation of this Project. The Board approved the release of the RFP at their July 11, 2019 meeting. The District received proposals from the following engineering firms:

Battalion Chief
George Huang

- Monsoon Consultants
- Wy'east Engineering
- MNS Engineers, Inc.
- Water Systems Consulting, Inc.

Mailing Address:
P.O. Box 6064
Los Osos, CA 93412

The proposal review team included:

- Jose Acosta, Utility Systems Manager
- Frank Asuncion, Water Resources Crew Leader
- Steven Tanaka, Principal Engineer-Wallace Group

Offices:
2122 9th Street, Suite 110
Los Osos, CA 93402

The team reviewed the four proposals based on a qualifications-based selection (QBS) process which includes responsiveness to the scope of work in RFP, price and qualifications of the consultant's support staff. The review team unanimously chose WSC as the most responsive proposers and is recommending to the Board the award of the contract to WSC.

Phone: 805/528-9370
FAX: 805/528-9377

FINANCIAL IMPACT

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The South Bay water transmission project is included in the 2019-20 capital improvement budget, line item 500-9006. The total budget for the project is \$507,500. The contract amount of \$67,474 being considered in this report was included in the original engineering estimate for the entire project and within budget.