LA VERKIN CITY EST. 1898

435 North Main Street
La Verkin, Utah 84745
(435) 635-2581 (435) 635-2104 Fax
www.laverkin.org

La Verkin City Council Meeting Agenda
Wednesday, January 7, 2026, 6:00 p.m.
Council Chambers, 111 S. Main, La Verkin, Utah

A. Meeting Called to Order: Invocation by Invitation; Pledge of Allegiance

B. Appointments:

1. Judge Myers to swear in newly elected City Councilmembers, City Treasurer, City Recorder, and Deputy Recorder.
2. Mayor Wilson appointments of Boards and Commissions.

C. Presentation:

1. Employee of the Year
2. Nick Wright from HVFD
3. Chief Nuccitelli

D. Consent Agenda: (Items on the consent agenda may not require discussion. These items will be a single motion unless removed at the request of the Mayor or City Council.)

1. Declarations of conflict of interest
2. Agenda
3. Meeting Minutes: November 11, 2025, work and regular meetings
4. Checks and Invoices: $ 436,757.36

E. Business:

1. Discussion and Possible action to approve Resolution No. 2026-*01*. A resolution designating 2 representatives on the Administrative Control Board of Ash Creek Special Service District.
2. Discussion and Possible action to approve Resolution No. 2026-*02*. A resolution designating a representative on the Administrative Control Board of Washington County Special Service District No. 1
3. Discussion and Possible action to approve Resolution No. 2026-*03.* A resolution appointing a representative to serve on the Administrative Control Board of Southwest Mosquito Abatement and Control District.
4. Discussion and Possible action to approve Resolution No. 2026-*04.* A resolution designating a representative to serve on the Administrative Control Board of Hurricane Valley Fire Special Service District.
5. Discussion and Possible action to approve the work release for La Verkin city secondary water improvements.
6. Discussion and Possible action to approve the funding package for the Lead and Copper project.
7. Discussion and possible action to approve the secondary water conservation plan.
8. Discussion regarding the cemetery Ordinance.

F. Mayor & Council Reports:

Mayor Wilson:
Kyle Gubler:
Barr: Washington County Solid Waste, Historical Preservation
Valenti: Planning Commission/Zoning, Southwest Mosquito Abatement

Micah Gubler: Public Safety, Recreation/City Festivals
Pectol: Fire District, Ash Creek Special Service District
Prince: Beautification/Trails Committee, Economic Development/Tourism, DTEC
Fay Reber: City updates

G. Citizen Comment & Request for Future Agenda Items: No action may be taken on a matter raised under this agenda item. This item is reserved for the citizens of La Verkin who have items not listed on this agenda. There is a time limit of 20 minutes with each individual taking no more than 3 minutes.

H. Adjourn:

In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Nancy Cline, City Recorder, (435) 635-2581, at least 48 hours in advance.

Certificate of Posting

The undersigned City Recorder does hereby certify that the agenda was sent to each member of the governing body, sent to the posted on the State website at, posted on the La Verkin City website at www.laverkin.org and at the city office buildings 111 S. Main and 435 N. Main on December 31, 2025

Nancy Cline, City Recorder

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La Verkin City Council Meeting Amended Agenda
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6. Discussion and Possible action to approve the funding package for the Lead and Copper project.
7. Discussion regarding ratifying the secondary water conservation plan.
8. Discussion regarding the cemetery Ordinance.

F. Mayor & Council Reports:

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Kyle Gubler:
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City of La Verkin

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La Verkin City Council Work Meeting Minutes
Wednesday, November 11, 2025, 5:00 pm.
111 S. Main, La Verkin, Utah

Present: Mayor Kelly Wilson; Council Members: Patricia Wise, Blair Gubler, Micah Gubler, and Darren Prince; Staff: Kyle Gubler, Derek Imlay, Fay Reber, and Nancy Cline, Public; Brad Robbins.

Called to Order –Mayor Wilson called the work meeting to order at 5:00 pm.

1. Discussion regarding zoning for work/live.

Derek was concerned with the number of buildings that are on the flex unit property. He had Scott review our ordinance and interpret it. He asked Scott to review our retail ordinance and apply it to the flex buildings, focusing solely on the permitted building area on the lot, excluding the residential factors. Scott confirmed that our interpretation of the code was accurate. However, to prevent excessive building on parcels in the future, if that's what one of the issues are, we need to address the following criteria. Setbacks, which we can implement deeper site and rear setbacks. Open space requires designated open space, which we have no open space requirements within our existing commercial ordinances. It would be for so much square footage of living space, you have to have so much square footage of open space, which could be parks, planter strips, and parking. It would be separate from parking. Building separation, because the only way we can enforce that right now is the fire separation, which would be 5 feet, even though Blair's buildings are a lot more than that. There are a lot of limitations, which Brad will talk about here in a minute. The number of buildings that can be occupied on a specific minimum lot size and our parking ordinance, which Brad has been talking about in the newer ordinances by implementing some or all these measures, we can avoid the overcrowding buildings. Brad has been employing these methods in the new zoning ordinance we are developing. And we also have him working on a plug on our current commercial zones because the way that it sits right now, anybody can come in as long as they meet the current setbacks and the fire code, they can do as many buildings as they possibly can on any of the parcels of the property that we have within our community. Brad's going to put a temporary fix on that for us now, which we'll take through Planning Commission and City Council. He wanted to do some clarification because of the concerns raised about the Flex buildings. We don't have anything appropriate to minimize what's there. Brad will take some steps coming up that will help us protect the rest of the commercial properties.

Brad explained that in regard to the limitations, no live-work development shall be established on property less than 3 1/2 acres. All work-live development shall be established only within the retail commercial zones, and they have to be within a 2,000-foot radius of SR9 and SR17. Again, Derek's going to show you that. As far as height restrictions, it can't be more than two stories in height. Other requirements are all live-work units shall be under single ownership. No portion of a live-work unit shall be separately leased or sold. You can't have it as a short-term rental or nightly rental. The bottom of the area of the property or of the unit itself has to be set aside exclusively for business and commercial purposes. It has to be a minimum of 700 square feet located on the uppermost floor for the live-work unit and that shall be for residential units or purposes. No live-work unit should be occupied for residential purposes that's the bottom floor of the unit is simultaneously occupied by operating business with a valid business. The portion of the live-work unit used for residential purposes shall be occupied only by a person directly connected to the day-to-day operation of the business such as a manager and employee. In addition to those restrictions, we have the development agreement that is going to be required in order to establish live-work and that's basically going to provide for the establishment of a property owners association that has enforcement authority. It will require that one unit be designated at all times so there is there should be constant on-site manager. The association would be able to fine up to $100 per day per violation, which is pretty serious for several weeks. If there's a violation, it could come into thousands of dollars. Require all purchasers and tenants of units to acknowledge and agree to the development agreement restrictions as a condition of their occupancy. The last provision would provide for independent enforcement of the development agreement by the city through allowing periodic inspection of units, withholding permits or approvals, issuance of citations, and seeking conjunctive relief, and by revoking certificates of occupancy for continued violations.

Derek explained the map he passed out. The dark blue, which is the general commercial, and then the hatched areas that we have are the retail commercial which Blair's property is part of. They went in and identified the property sizes which one has to be at least 3.5 acres to be able to really start going down this road. All the properties basically within in the retail commercial would meet requirement. Then we put the live-work would have to be in the retail commercial zone which you're highlighting at the hash mark. Like the RV resort where we wanted it to be specific to one location when it's in La Verkin. They went from the center street of SR9 and SR17 and drew a circle out. It landed at 200 north which was a good ending point. That's 2,000 square feet so anybody within that circle in a retail commercial that has 3.5 acres wouldn't be allowed to have this allowance which basically would minimize or only allow it strictly as the ordinance proposed ordinance currently states within one property we have plans on doing some other allocations within the mixed-use that would potentially address live-work so that we're not getting rid of it all. This particular piece of property sits that would be the only parcel that would qualify under these three rights. On the next map he didn't put the retail commercial. There is the tourist commercial and general commercial. They were concerned that certain vacant areas have this ability. We're working on a hotel right now on one parcel that went to the north of Farmers. They have a good idea of what's available and the acreage involved. There are five parcels of property that are designated as retail commercial. They decided it might be the best approach to try to make something work in that location. We want to make that more of a kind of a walkable property by taking a couple of parts of the existing sidewalk and maybe swooping them in. To make some connection points. They have been trying to figure out how to make this connected to the buildings that are there. It's a little bit more inviting to potential businesses. They did restrict what was allowed in the retail commercial. Blair is trying to be specific in a specific type of business. As we're going through, we're trying to really implement and bring La Verkin into more of a walkable community regardless of what all is allowed or not allowed. They need to start formatting the whole downtown as walkable. At some point that's going to be bringing buildings closer to SR9. Some buildings are already sitting back we need to work with that to get this extension of the sidewalk to swoop in and come back out making sidewalk. Blair has sidewalks on his property in front of all of the businesses. If we end up getting that grant, we need to start being proactive and have them in place already.

Kyle asked Darren and Patty about the grant they were applying for to plan downtown and asked if they should put development on a moratorium for six months to get organized.

Councilwoman Wise agreed. They suggested the moratorium to make sure that we're investing in all this effort on a downtown development

Derek suggested they need to get on with the work-live zone and if they didn't want to do it then they would just stop working on the idea.

Councilman Prince asked about other opportunities in that mixed-use zone that could allow some work-live. There's the work-live would go really well on some streets like Stowls Trailer Court for example. He thought if there were businesses on both sides and then work-live between that would be a really good place.

Derek explained that front side of Stowls right now is dedicated general commercial. But they can continue to do what they're doing. They wanted to make that part of our commercial area. What we're trying to focus on is reworking our definition of work-live after this component and making that potentially a component of maybe the mixed-use. Where you can have a certain component of work-live within it. What's the difference between a live-work and a mixed-use. If you've got the bottom floor as commercial, retail-commercial, and commercial then everything above is residential. There's a lot more availability to basically rent with no provisions against who can live there. What our code allowed there building-wise and potentially work beneficially for both parties. But because there's been so much concern over the concept, then we wouldn't have the concept go down that road anymore beyond this property. If it was approved, we would find a different method of implementing it into something like into mixed use. But as it sits now, this would be the only property that would have the capability of allocation towards it.

Councilwoman Wise had some concerns about the language. We'll probably use this language in other ordinances. On the height regulations, it says no greater than two stories or erected to a height greater than 35 feet. Does that mean that they could potentially have three stories? So not the flex space that we're talking about of layers, but another, are we going to, if we use the same language elsewhere, does that allow for three stories? Because 35 feet, you could get three stories that'd be 10 feet per floor. So that could be commercial. So do we want to keep it like that, or does it need to be changed.

Derek replied that it says no building or structure would be greater than two stories. So, it's already limited to two stories. They're allowed 55 with the facade, or with the non-occupied area.

Councilwoman Wise continued to read under requirements on page 4, no portion of a work-lived unit shall be separately leased or sold. So, we're just being very specific about a portion of it, not the whole unit. Because certainly the whole unit could be sold.

Brad explained that the concern there was that somebody could lease out one floor for six months, not the whole unit.

Blair Gardner added that his building is max height is within 32 at the top of the wall.

Derek explained he has a mezzanine that gives the feeling of a second story because you're going up a set of stairs to get to the upper part. That mezzanine is more of a storage area. They didn't really think of it as a floor.

Mayor Wilson asked if everyone liked the way it was written and could it go for a vote in city council.

Derek explained the planning commission voted 5-0 in favor of it. They didn't want it brought back to them. City council could beef it up more if they wanted.

Councilman Prince added he liked it. He wondered if they could modify it in the future for other businesses.

Blair Gardner asked if they had any questions for him.

Councilwoman Wise asked if he agreed with everything like the on-site manager.

Blair replied that if they own a building, they're the president of the association. Does that qualify them as an on-site manager.

Councilwoman Wise explained the code states require one unit be designated as an on-site manager's unit at all times.

Blair wanted to clarify they didn't expect a nonowner and him to designate a unit for that manager. It could be an owner that is the onsite manager. He explained he owns one and can do that or if they identify the board for the HOA, then whoever is the president at the time can be the designated manager, and they're the ones who get the call.

Brad clarified the intent was never to have a separate onsite manager.

Blair agreed to that. He said the buyers aren't interested if they can't live there.

Councilwoman Wise reminded him when he started, he stated it would be successful even if it wasn't zoned work/live.

Blair agreed he said that but now the market has changed.

Councilwoman Wise explained that we're basically creating a zone for him, for his project. She has high expectations that he will continue to be an asset to the community. That it's always beautifully kept, above par, because they really are creating something for his project that nobody else will get. She commented that they're eliminating competition. They are handing quite a nice package to him. In return, he could be a big asset to the community by being involved, keeping the property up, making sure that on-site manager, whoever you designate as an on-site manager, really tends to business of keeping the property good, no complaints from the neighboring residential areas, all of that.

Blair agreed and said he would commit to that. He appreciates all the work that has gone into it.

Brad explained what mixed-use entails. Mixed-use is not a new concept. Most towns and cities do have some sort of mixed-use. And it's just basically a mixture of residential in some sort and commercial. And what we do is put together

the mixed-use zone here with that concept in mind. The permitted uses that are displayed here are right out of your commercial. The only thing that's different here is that you have the residential component and that is basically condominium departments and then he added that they must be associated with a bottom floor commercial component subject to the PUD process. There was discussion about possibly putting live-work in here. He thought that's something that we can do but it has to be a component of residential use, not just live-work. Otherwise, someone could take that zone and try to just do live-work instead. They could have a mixture of like apartments, condos, if they want, and then some type of component of live/work.

Kyle suggested the bottom floor needs to be higher than ten feet. That would give you the impression that it's some sort of a business. Height, and then whatever went above standard, you'd be able to somehow put in some height businesses under it. Most hotels at the gateway are like that, the buildings are taller on the bottom. The Gateway Mall is a two-level residential commercial two floors commercial before you get to upper level. He suggested they ought to state it's taller on the bottom for the commercial.

Brad agrees and will research that and add that in.

Councilwoman Wise added that the downtown grant they applied for would probably have good ideas for this also. That might be something that will help in the future.

Brad continued to say going through what's in this ordinance, we put in the fact that you've got to go through a precise plan, which would allow the Planning Commission to look at the site plan, the architecture, the landscaping, and make sure it meets the architecture requirements we put together a year or so ago. What type of studies would be required.

Councilwoman Wise asked about number three under application requirements, the precise plan and architectural drawing are required. The architectural drawing could be their architectural drawing, it doesn't specifically state La Verkin. Could we just add La Verkin's architectural drawing schedule plan and give it a title under application requirements and then the top of the next page item number three.

Brad agreed to add that. He put together a comprehensive signage program because when you have a mixture of commercial and residential, it needs to be something different and not just your normal signage. Derek had talked about, when he talked to Scott, different types of ways to kind of make the site look better. We've already done that with setbacks. There's got to be a minimum 15-foot landscape setback for a front property, between buildings and courtyards. The side yard would be 10 feet unless it's adjacent to residential, it would be 60. The rear would be 10 feet unless it's adjacent to residential, it would be 60. And that's to provide that buffer. Lot coverage requirement is at 75%, you cannot exceed 75% of that lot coverage of structures. There are parking requirements, it would be both residential parking and then also commercial parking, including restaurant parking. And then an open space requirement of 200 square feet per unit, which is standard, and part of that would be common, which would mean it would be play areas for kids, picnic tables, and pools. 100 of that would have to be dedicated to each unit for their own purposes, such as a balcony.

Derek thought that would give us the protection that they we're trying to keep. That's what we need to plug in our existing code now sooner rather than later. For example, the open space parking because the open space is different than the parking, so the parking lots are going to have a huge amount of open space, technically, no building but the component of open space itself isn't met.

Brad added its active recreation open space it's not just parking open space or curbs and gutters and those types of things. It's actually something people could play in and enjoy themselves.

Mayor Wilson asked about shared parking.

Brad replied that there have to be required parking for each unit, probably two stalls. One covered and one uncovered, normally four apartments and then separately you'd have your commercial.

Derek added that the commercial would have the ability to have some shared parking, depending on the operation time.

But not residential. There is separation between commercial and residential. Commercial, if it's 18 feet or shorter, could actually be right up on the property line. So, there would be no buffer between commercial and residential properties. This would take that out and add a bit bigger buffer which now minimizes property usage.

Councilwoman Wise commented that they want La Verkin to be more walkable but on the sidewalks on state street could have six foot wide instead of four feet.

Derek replied they are changing that to six feet.

Councilman Prince thought Scott suggested a ten-foot sidewalk.

Derek replied that Hurricane is 6-8 foot.

Councilwoman Wise added that having a sidewalk right next to SR9 is not very safe and suggested moving the sidewalk in with a buffer between.

Derek replied he didn't want to do a planter box or anything that would require maintenance. Extending from the back of the curb 8 to 10 feet and make that more walkable. He put it down for 8 but we can change it to 10 under the construction standards. Those will be coming to you guys for adoption anyway because we made all residential. He suggested if they did ten feet they could take some of the setback space away, so they aren't requiring too much land.

Councilwoman Wise suggested with this being mixed-use there could be small restaurants, cafes, they're going to want to have outdoor seating, potentially.

Derek wanted to make sure they were working in the right direction for what the city council would like to see before presenting it to the planning commission.

Councilman Micah Gubler wanted to know what zones this would be included in.

Brad replied they could do an overlay or establish a zone for it.

Councilwoman Wise suggested it would be more successful if it was condensed to an area. The interest is going to be the work-live and so do we want to take up all of our SR9 property and all the different commercial zones with people living above or do we want to reserve some of that for larger commercial.

Derek replied they could do it as a component that the planning commission can look at and then city council could always add to it. Designate some areas so that you know where it's going to go precisely.

Kyle asked who looks at the mixed-use and approves it.

Councilman Micah Gubler responded that is what Brad was saying that they would make it a zone and then come in and request a zone change for mixed-use. Or we designate the properties.

Councilwoman Wise was concerned about a certain property on State Street that wanted to do a work-live zone, and it was a large piece of property across the street of River Rock.

Derek replied he is general commercial and that wouldn't fit into the work-live. We can have planning commission to work on it.

Councilman Prince inquired about the hotel going in across from Davis market.

Derek explained that plans have been submitted. They are reviewing for code compliance. They want to have a mixed-use component to it, but we can't approve that because we don't have that zone yet.

Councilman Prince asked if they got a mixed-use zone would they be limited to two stories.

Derek explained they would be under the old zoning. It would allow for four stories. It would be across from Davis, and the back North part of the lot would be a restaurant. It would face SR17. It would have multiple buildings. He offered to send a rendering for the hotel.

Mayor Wilson agreed to send this to the planning commission. And thanked Brad for his work on this.

Mayor Wilson ended the meeting and asked everyone to go to the council chamber to start the meeting.

B. Adjourn:

The meeting adjourned at 5:48 p.m.

_____
Date Approved

_____
Mayor Kelly B. Wilson

ATTEST: _____
Nancy Cline
City Recorder

DRAFT

City of La Verkin

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La Verkin City Council Meeting Minutes
Wednesday, November 19, 2025, 6:00 pm.
Council Chambers, 111 S. Main, La Verkin, Utah

Present: Mayor Kelly Wilson; Council Members: Patricia Wise, Blair Gubler, Micah Gubler, and Darren Prince; Staff: Kyle Gubler, Fay Reber, Derek Imlay, Nancy Cline.

Called to Order –Micah Gubler gave the prayer and Pledge of Allegiance at 6:00 pm.

A. **Consent Agenda:** (Items on the consent agenda may not require discussion. These items will be a single motion unless removed at the request of the Mayor or City Council.)
   1. Declarations of conflict of interest
   2. Agenda
   3. Checks & Invoices: $ 406,897.54

The motion was made by Councilman Micah Gubler to approve the consent agenda as written. Checks and invoices in the amount $406,897.54, second by Councilman Prince. Roll Call Vote: Micah Gubler-yes, Wise-yes, Blair Gubler-yes, Price-yes. The motion carried unanimously.

B. Business:

1. Discussion and possible action to approve Water Surplus Agreement.

Councilwoman Wise explained they have been working on this agreement for about 18 months and when it first came before them it was for a time limit of 1000 years and no one liked that timeline. A lot of discussions happened after that, setting the terms, what was equitable, etc., and the council was brought up to date occasionally. Never in that time period until we received the meeting prior to this was the perpetual use used. Her understanding was that the water district was loaning them 13 million to fix the irrigation lines and they would receive our excess water. At the end of that term of 25-30 years we would renegotiate the terms. The surplus water belongs to us, that eventually we would use that surplus water for our own new connections. We will still get new connections. The Conservancy District is guaranteeing that. There are formulas here, etc. She still disagreed strongly that in working out a good agreement for both parties that La Verkin has to agree to perpetual use, not even a thousand years, perpetual. She didn't understand how future councils would not have a problem with this. There are some other things that our incoming council member, John, emailed the council and the mayor. She didn't think any of those things were addressed in here. She very much wants an agreement. She thought it should be good for the Water Conservancy District and good for La Verkin. She had a hard time putting her name on anything that is perpetual use. It is such a gamble as to the way that will go in the future. And you can think of any number of examples in governments, civic governments, U.S. government, state government, that this kind of thing has come back and bit one party or the other the wrong way. She did speak with former Mayor Carl Wilson, and he had concerns about it. He did not like the word perpetual either. She also called Commissioner Iverson since he's on the water board. He was on his way to a meeting with the Dixie Convention Center. Evidently some previous Commission signed a 99-year term and 30 years into it they discovered it wasn't such a great deal. His personal opinion was he wouldn't agree to a perpetual timeline. She understood the mayor's opinion and that La Verkin would get clean water. But her concern was after the 13 million was paid back why wouldn't they negotiate a future deal and not just give it up now.

Councilman Blair Gubler added that they have worked on this for months, everybody has done a good job on this agreement. He would like to sign an agreement but didn't agree with perpetual time. He thought that the district, if they get in trouble in 20 years, would want it. Or they would want a way to fix it and change the

agreement we're in. They're not buying it for perpetual. They're buying it for long enough to get their investment back out of it and use the water somewhere. And in 20 years, it might be re-signed and just left the way it is. But in 20 years, or 30 years, but at some time period, people are going to sit back and they're going to say, Oh, that wasn't such a good idea. We need to change. And that's my big steppingstone is perpetuity.

Councilman Micah Gubler asked Fay what his opinion about the word perpetuity.

Fay explained that whenever you speak of perpetuity, it always makes you raise your hand. He pointed out that also there's language here that guarantees us new water connections back in perpetuity. He sent out an email to the council members earlier this week with the surplus water agreement, with that new language inserted in there. In fact, in the agreement, there's three separate locations in the city, receiving those new connections in perpetuity. So, it's kind of a two-way street.

Councilman Micah Gubler understood the agreement that on the secondary water, if it keeps going down the river and we don't have a way to pull it out and to clean it and to use it, can we lose our rights to that eventually? Could that kind of be taken because it's something that we're not using or able to.

Morgan replied to the water right cannot be taken away but the water does go down river to the next in line through prior appropriation.

Mayor Wilson explained the city can protect that water right better than the canal company or somebody else. But if we're actually not going to use that surplus water for secondary irrigation in our system, and we don't have any plans for it over time, the state could come in and re-adjudicate that, even though we are a city. But just for the fact that we can show them a plan that we're going to save that water for a future of generations, We're not giving up, we need that right, and we're not giving up the right. That's enough to keep them from doing it. But if we didn't have that plan to turn it into water for future generations then yes you would be in a situation where they could actually re-adjudicate it.

Councilman Blair Gubler added that he has been researching this. He found Springdale pulls it right out of the river runs it to treatment. He didn't get an exact price but it's about 6 million. There are avenues that we could look at that we can have that all as culinary. Now, if they say we're not doing anything with it, plants can take a long time to build along this side. The plant down here was planted clear back when Darwin Hall was superintendent, and he thought Kelly was on the board when we were talking about that. And that's been 25 years ago. That's been a long time, but nobody's took the water yet, and it's an 1890 right and then all that time nobody's took the water or planned to take the water. As the water gets scarcer people do want that water. So, let's make a plan. Let's plan on using it somewhat ourselves to sell it, the water, to somebody else. There are other avenues if you open your mind.

Councilman Prince commented that he has talked to members of the community and the council that we are headed in the right direction and need to be a part of the water district. It seems like we're stuck on that perpetual. He asked if we know 30 years from now what that value is going to be of that surplus water? Is there an opportunity to share some of that profit? If there is a profit, 30 years. He didn't mind having a perpetual agreement if we're being awarded for that water.

Morgan replied that this surplus water agreement comes down to two things. That the water district is coordinating with the city. Council member Wise mentioned the 13 million plus secondary water system and that we are not expecting La Verkin city to pay that back. So, it's not a loan. The district is providing funds for that. And then also what was mentioned is the new connection and it is a two-way street with perpetuity. So, the water district's concern with it not being perpetual. We are providing funds for the secondary system. And then second, the new connection that is provided is based off that water. We're giving a connection to a home or a

building, so that water needs to be there. We're promising that water. Even though we're not calling this an exchange, it is an exchange where, for the surplus water, La Verkin City is promised new connections until you use them all. And so if we were to give a connection based off this agreement to a home based off the surplus water, and then La Verkin will come back and say, we don't want to do this anymore, and then start using that water, well, we no longer have water for the home. And so that's why it really does need to be perpetual, because a connection to the home is promised.

Mayor Wilson explained that what the water district is offering us is that if we give them that water, that surplus water, whatever amount that will be, that's undetermined. We have an estimate right now it's anywhere from 700 acre feet a year that over the past 10 years or so has been kind of an average of 700 plus acre feet a year that goes down the river to the next priority user. We're third on the priority list, and we're the biggest of those three. This water right for the district is very important because that assures them that, say, if the river starts to go down and they put a call on the river, which they have done in the last several years, they put a call on the river, and they put the priority right to 1900. Anybody that's got a priority right that's newer than after 1900 cannot use the water. But we can, and we can use it for contract holders, for the city herself, because the city owns the water. So that's why the district's interested in it, because if we can provide them with the water to store, to treat, and to transmit back to us through their system, which they will guarantee us water connections, that's why we have the water rights, so we can have water connections for future generations. And this is exactly what we're doing. We're making that possible that this extra water that we're not using in the system is beneficial for future generations in La Verkin. And it's valuable but that's against the state law to sell our water. And that was one of the sticking points that the water attorney had with this is that we sold it to the district and we're paying that loan back. And then after that's paid back, we're going to keep selling that to the district. But they're guaranteeing us if we don't sell it, maybe they don't want to buy it. But they guarantee us water connections. We're going to be able to have beneficial use for that. We're not selling our water, our extra water out of the springs. The state's telling us that they're not even going to give us a haircut. We can get water for water, so we get the full back of it. Generally, when you change the use, you get a big haircut on it. They'll cut back on it. They're not offering that. This is a very good idea for us. The district isn't asking us to pay that money back. And the reason they want perpetual is exactly what you said. They're committing that to connections. And it has to be that, just like our water out of the springs, we commit that to the connections in the work. And so, it needs to be perpetual on both sides so that they can have the water to commit to us, and it's perpetual for us so that we can use those connections up to that water right for future generations. He didn't see any reason why we wouldn't pass this. It's a huge benefit for our future youth, future generations and for our future growth. There's enough water there that we could almost completely build out the city. We're limited in our space, and the water connections that we'll get from this are probably close to full build-out. If there was 1,000 extra acre-foot of water, we would get at a 0.59, we would get almost 17 connections. At a 0.39, the ultra-conservative use, if that gets passed, we can use that. That would add to about 1,000 acre-feet, about 2,500 more connections that we could use. And if the calculations that we're using are from Sunrise Engineering. It could be anywhere from 1,000 to 1,500 acre-feet. He believed they settled on about 1,350. We're not giving up our water rights. They're offering those connections in perpetuity, which means that we're getting it back. They need to have it and get the water in perpetuity because they're going to be able to offer those back to us. Maybe we want to build our own reservoir, build our own treatment plant. And how many years did it take to get that reservoir in Toquerville? It has taken 13 years and 90 million dollars. And that's not even treating the water yet. The cost to build a treatment plant to do that would be astronomical. We already have that in the water district. We're part of the water district. We're part of the pulling agreement. We've joined the water district when they first put all the agreements together in 2006. We have the benefit of using the water district for our benefit they're offering that to us. It costs money to store the water, to treat it, and to transport it. They're going to charge us whatever those costs are. He understood their concerns however, they have taken their time and made sure that this is a good thing and we're protected. We have probably one of the better water attorneys in the state that has been working on this on our behalf. There're many times that he's suggested things to the district's water attorney. He has been involved with this agreement at all stages, and he has tried to

keep everyone informed. He strongly suggested that they should vote for it and pass it tonight, because it will be beneficial use for our future generations, and it is guaranteed that we're going to get that water back.

Councilman Prince asked what happens when we max out our water rights and connections.

Mayor Wilson explained that if they maxed out the connections that we recieve in this agreement it would be no different than maxing out the water rights. We have water rights in the springs to use. The water agreement must be perpetual so that we can always have that water for those connections, because they're committed to us.

Councilman Prince asked if there was surplus water after that could they sell it.

Mayor Wilson explained there would be no excess water. The benefit to the district is they have so much water that they provide for the eight communities now that are part of the water district, and Ivins is out of water. They have to get all the water for any growth in Ivins from the water district. Washington City is the same way. He didn't know how close St. George City is on using all of their water rights, but they get a lot of water from the water district. Santa Clara is maybe a little bit better off than some of the others over there. Toquerville, relies on the district for growth. Because they don't have the water to do that. We're the only community that has enough water rights to do that. And the only way we can do it is by converting that from secondary use to culinary use and back to us. It won't affect any of the contract holders because we're using that secondary water that's coming out of the river. We're going to meet our obligation to the contract holders. The city has probably the biggest share of the contracts. The city is using that water to rent out to the rest of the community so that we're not using culinary water to water our lawns but we're using secondary water. As time goes on, we're going to have fields like at the hot springs that there's not watering in that parking lot. The Squires property eventually is going to sell and they're going to build something on that it might be a parking lot it might be some other businesses that's going to be more water that will be saved that will be used on that field once that the water turns on the irrigation system in the secondary system in the spring those sprinklers on the Squire property, run until it turns off in the fall they just keep moving them around. To water their property so it's running all the time and most of the other big water users that have fields are using that for them and so it's not going to hurt them because we have a contractual obligation to provide secondary water for the citizens of the La Verkin, and we're doing that but we're not using it all and this is an opportunity to use it for the beneficial use for future generations.

Councilman Micah Gubler asked if a house was built 20 years ago under this agreement, then the agreement is gone that house wouldn't have water anymore?

Mayor Wilson explained they already committed water to them, so they have to provide it. The waters coming from our secondary water right. The district is committing water to Ivins and to Washington and Santa Clara and St George and Hurricane. That water's committed there they may have a hard time committing more water to us but by doing this they don't have to commit water to us we're being self-sufficient we're fully using our water even though we're going to pay for it because it goes through their system, but it's still our water.

Councilwoman Wise explained if in 20 years they take water away from us, then they're also going to be taking water away from every other city in Washington County. We're not going to be picked on. If the water belongs to us, it belongs to us. This is our water; the Water Conservancy District is the manager. They don't own anybody's water, and so they can't give our water away to other cities. It is our water, regardless of whether we enter into this agreement or not. She would like to see this agreement happen. There is nothing here that talks about renegotiating terms. And Morgan, the $13,400,000 that the Water Conservancy District is exchanging with La Verkin for the surplus water that's a value. You're giving us $13 million in value, and we're going to give you $13 million worth of water. Actually, a lot more than that, probably. And that at the end of the time or if it's terminated. The way this agreement's written, we don't even have any recourse to renegotiate. In the

agreement prior to April 1st of each calendar year, the district and the city shall meet to coordinate regarding the terms of this agreement, including balancing the ledger of new connections and the amount of surplus secondary water rights deliveries from the city. She wanted to see there be terms that allow more negotiation by the city. If in the future there's a lot more value to our water that the district is using, that we are compensated in some manner. That's really the nuts and bolts of it, and in our work meeting with our water rights attorney, Jeff Gittins he advised he would want to have bars of time where the contract is, renegotiated in the sense that we're not terminating the contract, but we're negotiating where we are 20 years from now, 30 years from now, 50 years from now. The only other thing here is the termination, and that's drastic. She wouldn't want that and the Water Conservancy District definitely would not want to reach that point, and neither does La Verkin. She was objecting that we're agreeing in 2025 to things that we have no idea what's going to happen and we have no recourse to change it. We're stuck.

Mayor Wilson asked if we have recourse on the fact we have connections.

Councilwoman Wise agreed they do have guaranteed connections. She didn't see why we can't put a clause in there that's stronger than this coordination clause that benefits all of us at some point renegotiating the terms. Like maybe there's more value to the water and La Verkin has given it away.

Mayor Wilson agrees there will be more value to the water, and the city will have guaranteed connections and spring water left.

Councilwoman Wise adds we are agreeing to 1.3 million and there should be more down the road.

Mayor Wilson points out that they are offering money to fix our system because we are losing water and this will save us water. We know we're losing it. We just can't find where it's at. There are places where water goes in the ground and it never surfaces. Karl told me a few years back when you were the mayor, you found a two-inch leak in their main water system that never surfaced. And 25 years ago, the water district came to us and said, you're using about all of your water right. And they said, "Well, you're going to have to start buying water from us." And so, we did. We entered into a contract to buy water from them. And we replaced that line, and that's when they found the leak. Now 25 years later we have grown a ton and we still have water left in the springs. What they're offering to us is they're going to help us get a new system, they're not asking to be repaid, and we're going to still get the full benefit out of that water right. Whether it's $1,000 an acre foot in 20 years from now, or if it's $500,000 a year, it's still our benefit, the benefit to us. And it's not for sale. And if you try to sell it, the state will come right back on you and say you can't offer more. We're not selling the water to the district; they're just helping us convert it from secondary use to culinary use to benefit the citizens. And so, the way it's written is really the right way to put it. There's no question about that. Because they're not going to commit to us water that they can't be assured of getting.

Councilwoman Wise replied it's not all or none. 20 years from now it could be worth more money.

Mayor Wilson answered that in 20 years, we're still going to get it back. And we're still going to provide it to the district so they can treat it and bring it back. And they're offering to do that and help us do that. That's what they're there for. If we didn't have the Washington County Water Conservancy District, Washington County would probably have a population of maybe 50,000 today. But because of what they do to help all of our communities; we've been able to grow. And it's been made possible that our families, people that live here, can stay here and work, and some of them don't have to move away. Some of them choose to move away. He didn't know what we're going to renegotiate for 20 years or 40 years from now because you're still getting your water right now. You're just going to pay whatever the going rate is for the cost of storing it, treating it, and bringing it back to us.

Councilman Blair Gubler added that our sister cities that had no water at all and the conservancy district has said we're going to give you water. Morgan can attest to that. He thought Ivin's was one of them that didn't have any water at all. They have water whose water they are using and when they've used that water how do we get it back. It doesn't matter whether it's on paper or not, you still don't get the water back and if you go down by the airport of St. George city they have the massive Subdivisions.

Mayor Wilson replied that the district cannot over allocate the water.

Councilman Blair Gubler commented they could go to the state and reallocate it. In this agreement it says they can go to the state and reallocate it. They are going to move it.

Mayor Wilson replied you have to have water to reallocate it. They are going to allocate it to us. They aren't going to give it to Ivins.

Councilman Blair Gubler commented they already have. He commented on all the subdivisions in Washington city that are using a lot of water. If they allocate all the water out they won't have it to allocate to La Verkin. It doesn't matter what the agreement says. And they guarantee it for perpetuity, it doesn't matter because they'll come to us and they'll say, well, right now we're out of water. So, all of Washington County has stopped growing. It doesn't matter whether they've done it on paper. They'll say, oh, we're working on a line from Lake Powell. It covers their butt.

Mayor Wilson asked if he was saying if the District says they're out of water, we still have some water rights in the springs, we won't be able to use them.

Councilman Blair Gubler replied no they will use those, how many do we have.

Mayor Wilson explained we have water rights in the secondary system, we won't be able to give them to give back to us for use.

Councilman Blair Gubler explained that if they can allocate it, why can't we allocate it within our own city. We have a lot of land that's in the city, we haven't got any water on it, and so the map shows that we can't put any water there. But the Conservancy can. According to the map that's in this agreement, we can allocate the bottom bench for the water. Nothing outside of the bottom bench.

Mayor Wilson replied that we don't want secondary water on the topside.

Councilman Blair Gubler commented we could build a treatment plant just like they can, it just cost money.

Councilwoman Wise asked Mayor Wilson why he wasn't willing, if he was sure that's correct, why isn't he willing to just beef up number four coordination and allow more negotiation at 20 years in the future.

Mayor Wilson asked what would need to be negotiated.

Councilwoman Wise replied that they have never entered a long-term contract. We've got value. We've got value which can change depending on whether we have drought or we have surplus.

Mayor Wilson replied that the value will change. That's always going to change. It costs a lot more to get water in the future. And that water in 20 years that we have is going to be worth a lot more. But if we had to get it somewhere else it would cost a lot more.

Councilman Blair Gubler added that it's just a connection to us. To the Conservancy District right now, it's $15,000 per connection.

Mayor Wilson replied that the impact fee.

Councilman Micah Gubler gave an example of Medicare Advantage plan, when people are used to insurance companies always charging more and giving less, and it's a good deal, they say, well, where's the catch? And that kind of seems to be like, well, there's got to be something here, right? We just don't naturally trust outside entities, and he thought the mayor's been trying to say this is a win-win. They're helping us to get dirty water and make it clean, because we're not in that business. And Blair, as much as we say we could build it, La Verkin is not going to get into the water treatment business. We can barely keep our roads serviced.

Councilman Blair Gubler commented that new technologies are happening fast. Springdale has got it, and that's how they get their extra water.

Councilman Micah Gubler continued to say that Springdale has a budget that's X amount above ours, right? We couldn't even consider $6 million right now for anything.

Blaine Worrell commented that Springdale was already doing water, but it was an upgrade to their system. So, they've had the plant for a long time. It was an upgrade to get new technology. He couldn't remember the exact numbers. $10 million is what the total project cost, $10 to $15 million, somewhere in there. It is for a fraction of the size of La Verkin.

Councilman Micah Gulber commented that he was trying to understand on both sides, and he thought, we're thinking there's going to be a lot of surplus water that has value, but it sounds like if we hit even the, optimistic, conservative, numbers, at some point we have maybe just enough connections. 30 years from now, we have a whole lot of surplus water. It sounds like we can't sell our shares anyway. Right. He could see the mayor's point that what are we really negotiating right now we're locking in a way to guarantee and take water that's been going down the river and now we can make it clean and bring it back to us and not have to get into a loan to do it. It's opening a door for us to actually finally use the water shares that we have and assure them for the future. His hang up was he thought there's a lot of these extra shares of water we can sell but learning that we can't sell our shares of water and also that we're going to build out and use all of it eventually he didn't see why we need to renegotiate or what there would be to renegotiate.

Councilwoman Wise replied that she didn't know that we would need to renegotiate but the way it's written now we never will be able to. She thought they would get the water back, and maybe we won't use them all. You know, we assume that we'll build out, but maybe we won't. And we're still giving the Conservancy District surplus water. That we have chosen that we don't need, and then we are losing that. She was asking that we have the opportunity to. Maybe negotiates the wrong word, just a word that's used a lot, but we should have the opportunity to really review and balance the agreement.

Mayor Wilson replied we have the opportunity to balance how much water it's going to be every year.

Councilwoman Wise explained you're assuming we're going to use it all. But truly, what if we don't? And there's a whole lot of value in water that we're not using, and we'll never, into perpetuity, get any of that value.

Mayor Wilson asked how they would get the value out it the state says they can't sell it.

Councilwoman Wise If we're entering into this agreement, and we're allowing the district to take the surplus water. In this agreement, they will be the next priority, first right.

Mayor Wilson replied they're taking our priority because it's the best and just making sure that we're going to be able to use that for our benefit from secondary use to culinary use.

Councilman Blair Gubler suggested taking the numbers and cutting them all in half. They can have half the surplus water now and in 10 years negotiate for the other half. We have always just let the water go down the river to the next user.

Mayor Wilson asked why they wouldn't use it to benefit the city. He asked what kind of wording they wanted if they were to renegotiate.

Fay thought what they were looking for would be after a period of 20 years from the date of execution of the agreement, parties agreed to make any adjustments deemed necessary to correct any, or to make any adjustments. To correct any inequality or inequity. If there are those kinds of inequities after 20 years both parties can always sit down at that point and take a look at the agreement and renegotiate. There's nothing that prevents the parties from doing that at any time. Washington county water conservation district in his view is there for the benefit of the cities that's their purpose. A government entity is supposed to work in good faith so in dealing with the city and that kind of governmental entity you assume those people will act with an issue that comes up that nobody anticipated. Then we'll sit down and adjust it accordingly.

Mayor Wilson asked Morgan if the district would be opposed to adding a renegotiation for 20 years.

Morgan replied we'll need to figure out that one party deems an equity but the other doesn't. You have to resolve it in some way because it just goes back to if you've given connection based on that surplus water, whatever it was, because we're not having the city commit to any amount of surplus, which that is a risk the district is taking. She made that very clear. The district's taking on some as well. Also, the district isn't asking for a set number of surplus water. It may be more one year and so they are taking a chance also. The water district is not committing the city of La Verkin to any amount. We're going to meet yearly to see how much water surplus there is, and then decide, okay, that means you can get these many connections out of that surplus. Okay, next year, how much surplus water do you have? You could say, we don't have any this year, and we say, okay, no connection. Next year, how much surplus water? So, we are doing that on a yearly basis, and this Exhibit A is an illustration, but the district is not holding La Verkin City to a number, so that is a risk to the district. Councilmember Wise, we are already doing what you're doing. If we were to add language of renegotiation or fixing inequities, we would need to have a lot of sideboards, how that's resolved. And it needs to be resolved, because what we don't want to happen is it can't be resolved. The agreement is terminated, the city starts using more of that surplus water, but we've got connections that are relying on that.

Mayor Wilson added that Exhibit A is just a guesstimate. We don't know for sure. We think it's going to start out at close to 1,000 acre-feet. Once the new system is in and we know we've got a reliable system. They think there will be less water used because some of these big fields that use a lot of water they're eventually going to grow houses, and they won't be using as much water.

Councilwoman Wise asked them the wording that you were just saying about, say, 20-year time, reviewing and resolving any inequity, is that pretty much what you were saying.

Fay commented that if you sit down in good faith, there's always an obligation under the contract to review whatever we do, it has to be done in good faith. We're doing this in good faith, aren't we. We're doing this in good faith, yeah, absolutely. The district always owes to the city, and the city always owes to the district. If any circumstance arose that wasn't foreseen at this particular period of time, somehow inequitable to one of the parties, in good faith it would be discussed.

Councilwoman Wise replied she couldn't in good faith sign this agreement without more language about a renegotiation. She really wants to get this finished.

Fay responded that the language would need to be fine-tuned and agreeable to the district as well as the city.

Councilman Micah Gubler added that Morgan's comment that they have risk, that can come back to bite them. We might be the ones 20 years from now that have got a $13 million system, and if the surplus isn't there we got the better deal.

Councilwoman Wise was concerned that she never heard of anybody signing away forever. Without any discussion, let's just do it. It sounds good right now. We've tried to cross the T's, dot the I's. And we're going to live with it forever. Future councils are going to live with it forever.

Councilman Micah Gubler did like the idea of trading clean water for connections, forever. If the water is gone, it's gone across the county. However, we have it in perpetuity.

Councilwoman Wise asked if the water was really gone from the county would La Verkin really still have green grass and construction going?

Mayor Wilson said that question came up at the Water District, and they asked each one of the cities, are you willing to, if we get in a drought situation and we have to go to different stages of the drought, willing to let your lawns go brown? They asked him and he said that lawns would be green. We have a contractual obligation to provide that secondary water for our users in La Verkin. And that is the priority that we have. As long as there's water running down the river and they don't put a call on the river beyond 1890, we're going to get that water. And if we have excess water, it'll go back to the district, and they'll treat it and give it back to us in the coming years. And the rest of the county will have to look at brown lawns.

Morgan agreed.

Councilman Blair Gubler wanted to wait to make a motion until the next meeting. He wanted to see a clean copy with a change in the timeline. He didn't know why there was a hurry.

Mayor Wilson wanted a motion on it in tonight's meeting. He thought they had discussed it long enough.

Councilman Micah Gulber liked the perpetuity better, just because the equity thing made him nervous. We don't have that kind of money

The motion was made by Councilman Micah Gubler to approve Water Surplus Agreement, seconded by Councilman Darren Prince. Roll Call Vote: Micah Gubler-yes, Wise-No, Prince-yes, Blaire Gubler-no, Mayor Wilson-yes. The motion passed.

2. Discussion and possible action to approve the MOU for the Water Surplus Agreement.

Mayor Wilson explained the MOU is how the work gets paid for with the irrigation project. The district will pay the invoice and that way the city doesn't have to get a loan and have the district pay us back.

Kyle added that this just outlines how the contractor will be paid back, and the process that they need to follow, so the district approves it, and the city approves it, and then the district pays it.

Morgan added that La Verkin city is in control of the project. They will give support if La Verkin city desires it.

The motion was made by Councilman Darren Prince to the MOU for the Water Surplus Agreement, second by Councilman Micah Gubler. Roll Call Vote: Micah Gubler-yes, Wise-yes, Blair Gubler-No, Prince-yes. The motion passed.

3. Discussion and possible action to approve the Water Exchange Agreement.

Morgan explained that Ash Creek Special Service District is constructing a Confluence Park water reclamation facility. Our reclamation facility will produce type 1 reuse water, which is safe for human contact, safe for outdoor irrigation, and it's even safe for irrigation on edible portions of crops. And it is a consistent flow, which is nice, the turbidity that La Verkin has will be reduced. Part of the project that the district is paying for and doing is a pipeline from the complex park water reclamation facility to a new pond. It's separate. The secondary system improvement project, so none of that $13 million from the district is paying for these projects. It will deliver reused water to the pond, and then La Verkin City will use that reuse water in its secondary system. It'll be a one-for-one exchange. So, any amount of the reuse water that is used by La Verkin City, the district will take the Virgin River water that La Verkin City would have used so that you get the reuse. The district recognizes that Confluence Park Water Reclamation Study will not be producing enough type one reuse water to do a full exchange. So, part of the pond is desilting basin. So, La Verkin City will be using Virgin River secondary water rights, as well as reuse water, and the desilting pond will help with turbidity of the Virgin River water. So, one-for-one exchange, no cost, no additional cost to either parties and it will be a more constant flow, less sediment.

Blaine explained that the pond will have two inlets. It'll have an inlet from the Virgin River, inlet from the reuse, and it'll be on the south side of the pond. And then on the kind of northwest side of the pond, there's a decanter arm. It's got a pipe with a flexible joint so that the water that's coming out of the pond will always be drawn from the top. So as water comes in, especially the Virgin River underwater with its high sediment content, we'll come in and have time to settle to the bottom and then we'll be drawing water off the top, about a 20 foot elevation difference from the bottom of the pond to the top of the water so that we're getting as clean as water as possible as it's going into it.

Mayor Wilson added that it would be a huge benefit for the users of the secondary system here in the work. And eventually, hopefully we'll be able to have much cleaner water

The motion was made by Councilwoman Wise to the Water Exchange Agreement, second by Councilman Micah Gubler. Roll Call Vote: Micah Gubler-yes, Wise-yes, Blair Gubler-no, Prince-yes. The motion passed.

4. Discussion and possible action to approve the Director of operations new truck lease.

Mayor Wilson explained that Derek leases the truck for two years because they want it back for the resale value of the truck after two years. The resale value is a lot higher on a new truck. They do this with the police chief's truck also.

Councilwoman Wise wanted to know why there was not a lease agreement with any numbers.

Derek explained he didn't have the details when the packet went out but he has the lease now. Working with the company that we work with they give us a one-to-three-year option lease option we can lease for one year, two-year or three years. After the third year we keep the truck then for the fourth and fifth year. We're cutting the rest of the two payments in the truck. We lease with a 10,000 mile per year maximum. The old contract was that it was an annual payment that we would make to them every year. The lower the miles, we actually get a rebate back. Right now, with my truck and its miles, the city will recoup $10,000. We'll get paid back $10,000 for the

truck. So, by the time you take the $10,000, reapply it for the payment, our payment increased this year with a two-year newer truck by $200. I've got what those payments would be, right now, we make an annual payment of $8,500. The new payment would be $8,750 without rebate coming back to the city. They prefer not to make an annual payment anymore due to the fact that if we want to cut the lease short, we can't do that. If we want to cut lease agreement short we cant because we have started into our third year, we wouldn't have that option. The longer we hold on to the truck, the less that money comes back to us. So, we basically have that truck for two years. We've paid two payments of $8,500 on it, and we stand, we're back almost three quarters of the payment back to us, the apply back to as long as we're maintaining it well and the miles aren't excessive. We just bought a truck that you guys approved for ongoing. So, it's kind of a win because we keep a truck that's a nice truck and a truck that stays under warranty and a truck that we actually end up getting money back for it. That's a truck that will hopefully get another 10 to 12 years out of. This is better all the way around to where we're not financially responsible. First, we're not in debt for the truck other than the lease payment.

Mayor Wilson pointed out over two years they paid 17,000 and they got $10,000 back. That's a truck for two years only for $7,000.

Councilwoman Wise suggest that Derek gets them the lease and they can approve it. She wondered if that would cause hardship.

Derek explained they could do that. That it would be three months already for the truck to be delivered.

Councilwoman Wise explained she didn't think they should vote on something they haven't seen yet. And asked Derek to bring up the paperwork for them to look at.

Councilman Blair Gubler asked how much the truck costs.

Derek replied that the one he is driving now is $9500, because our last two payments are about $1030. And the point is we don't want to buy this because we don't want to bypass the warranty. This year is the first year after you guys have allowed us to start buying new equipment so that we are actually only at 20% of our equipment usage. In December we'll be at 50% of our budget. We've actually started to see that come around to be a benefit to us.

Councilwoman Wise asked if this was approved tonight, she wants the actual lease to be in the packet and part of the agenda. She asked if that was possible.

Fay replied yes they could add it later to the packet.

Councilwoman Wise explained that she was okay with it if the rest of the council is okay with it. She didn't think that we as a council should be approving things like this, a lease without the actual lease attached to this meeting agenda.

Mayor Wilson suggested that the motion approve a copy of the lease agenda for Nancy to have in the record.

Kyle added that it might be, if you do that, that might let Derek get the other one ordered. Because he's got to keep that other truck until the other truck gets here. But it would have proved what his numbers on the lease are, and subject to the lease coming back to you in two weeks at the next meeting. Then he might be able to call the United Fleet and tell them we're good to go. We don't want to run the risk of losing the rebate.

The motion was made by Councilwoman Wise to approve the Director of Operations new truck lease with the condition that the numbers stay the same and to attach the lease to the minutes, second by

Councilman Blair Gubler. Roll Call Vote: Micah Gubler-yes, Wise-yes, Blair Gubler-yes, Prince-yes. The motion carried unanimously.

C. Adjourn:

The mayor closed the meeting at 7:26 p.m.

_____
Date Approved

_____
Mayor Kelly B. Wilson

ATTEST: _____
Nancy Cline
City Recorder

DRAFT

La Verkin City
Invoice Register: 11/26/2025 to 12/30/2025 - All Invoices

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
WF25	*Beatty, Anthony	54571	12/12/2025	12/12/2025	$300.00			
					300.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Winterfest Sound
RFD 100041098.	*Nielson, Nila	54508	12/1/2025	12/1/2025	$81.40			
					81.40	512330	Turn on Fee/Renter Deposit	Deposit Refund: 100041098 - *N
RFD 100041649.	*Steglich, Kaylauni	54629	12/29/2025	12/29/2025	$76.30			
					76.30	512330	Turn on Fee/Renter Deposit	Deposit Refund: 100041649 - *S
Refund: 1000418	*Walraven, Alani	54572	12/15/2025	12/15/2025	$119.90			
					119.90	511311	Accounts Receivable	Refund: 100041854 - *Walraven,
RFD 100041854.	*Walraven, Alani	54509	12/1/2025	12/1/2025	$230.10			
					230.10	512330	Turn on Fee/Renter Deposit	Deposit Refund: 100041854 - *
	Vendor Total:				**$350.00**			
122025	^Howard, Hugh	54543	12/6/2025	12/6/2025	$100.00			
					100.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Talentfest Drawing Winner
PR112825-258	AFLAC	54510	12/3/2025	12/3/2025	$27.90			
					27.90	102224	Health Savings Account	AFLAC EE
PR121225-258	AFLAC	54630	12/17/2025	12/17/2025	$27.90			
					27.90	102224	Health Savings Account	AFLAC EE
PR122625-258	AFLAC	54630	12/30/2025	12/30/2025	$27.90			
					27.90	102224	Health Savings Account	AFLAC EE
	Vendor Total:				**$83.70**			
110210242025	ALSCO	54544	12/1/2025	12/1/2025	$117.72			
					3.54	104160.250	Bldg EQUIPMENT OPERATING	
					7.06	104240.250	Inspect EQUIPMENT OPERATI	
					20.01	104410.250	Streets EQUIPMENT OPERATI	
					8.24	104510.250	Parks EQUIPMENT OPERATIN	
					56.51	516340.250	O&M EQUIPMENT OPERATIN	
					10.59	536310.250	Irrigation EQUIPMENT OPERA	
					11.77	556350.250	Drainage EQUIPMENT OPERA	
LSTG1216089	ALSCO	54544	12/8/2025	12/8/2025	$39.24			
					1.18	104160.250	Bldg EQUIPMENT OPERATING	
					2.35	104240.250	Inspect EQUIPMENT OPERATI	
					6.67	104410.250	Streets EQUIPMENT OPERATI	
					2.75	104510.250	Parks EQUIPMENT OPERATIN	
					18.84	516340.250	O&M EQUIPMENT OPERATIN	
					3.53	536310.250	Irrigation EQUIPMENT OPERA	
					3.92	556350.250	Drainage EQUIPMENT OPERA	
LSTG1217232	ALSCO	54573	12/15/2025	12/15/2025	$39.24			
					1.18	104160.250	Bldg EQUIPMENT OPERATING	
					2.35	104240.250	Inspect EQUIPMENT OPERATI	
					6.67	104410.250	Streets EQUIPMENT OPERATI	
					2.75	104510.250	Parks EQUIPMENT OPERATIN	
					18.84	516340.250	O&M EQUIPMENT OPERATIN	
					3.53	536310.250	Irrigation EQUIPMENT OPERA	
					3.92	556350.250	Drainage EQUIPMENT OPERA	
	Vendor Total:				**$196.20**			
47410	AMERICAN LEGAL PUBLISHING	54545	12/10/2025	12/10/2025	$500.00			
					360.00	104140.280	Admin UTILITIES	
					125.00	516660.280	Admin UTILITIES	
					15.00	556350.250	Drainage EQUIPMENT OPERA	
1125	ASH CREEK SPECIAL SERVICE DIST		12/2/2025	12/2/2025	$72,650.75			
					72,650.75	526260.520	Sewer PAYMENT TO ASH CRE	November

La Verkin City
Invoice Register: 11/26/2025 to 12/30/2025 - All Invoices

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
218193	B&L PROPANE CO., INC.	54547	12/3/2025	12/3/2025	$218.33			
					218.33	104540.610	Rec EVENTS, FAIRS, & FESTI	Propane @ Winterfest
TR42161	B&L PROPANE CO., INC.	54574	11/30/2025	11/30/2025	$36.00			
					36.00	104253.270	Animal B&G OPERATIONS AN	Tank Rent
	Vendor Total:				**$254.33**			
DEC25-0959	BLOMQUIST HALE CONSULTING GR	54512	12/1/2025	12/1/2025	$104.04			
					104.04	101562	PEHP/AFLAC Insurance Clearin	Employee assistance coverage
UT202503257	BLUE STAKES OF UTAH 811	54513	11/30/2025	11/30/2025	$48.76			
					48.76	516340.450	O&M SYSTEMS MAINTENANC	Billable email notifications
1014482 PO# 6220	Bruce Electric Contractors, Inc	54548	12/4/2025	12/4/2025	$324.00			
					324.00	104620.610	Comm COMMUNITY DEVELOP	Work on Security Cameras
1014483 PO# 6225	Bruce Electric Contractors, Inc	54548	12/8/2025	12/8/2025	$906.00			
					906.00	104160.270	Bldg B&G OPERATION AND M	Repair motion switch for data ro
	Vendor Total:				**$1,230.00**			
367613	BUCK'S ACE HARDWARE	54514	11/28/2025	11/28/2025	$25.28			
					25.28	104253.270	Animal B&G OPERATIONS AN	Fasteners for kennel flap mounts
367697	BUCK'S ACE HARDWARE	54549	12/2/2025	12/2/2025	$370.82			
					370.82	104540.610	Rec EVENTS, FAIRS, & FESTI	Display Supplies
368008	BUCK'S ACE HARDWARE	54575	12/10/2025	12/10/2025	$41.98			
					41.98	104160.250	Bldg EQUIPMENT OPERATING	Batteries
368042	BUCK'S ACE HARDWARE	54575	12/12/2025	12/12/2025	$37.37			
					1.12	104160.250	Bldg EQUIPMENT OPERATING	
					2.24	104240.250	Inspect EQUIPMENT OPERATI	
					6.35	104410.250	Streets EQUIPMENT OPERATI	
					2.62	104510.250	Parks EQUIPMENT OPERATIN	
					17.94	516340.250	O&M EQUIPMENT OPERATIN	
					3.36	536310.250	Irrigation EQUIPMENT OPERA	
					3.74	556350.250	Drainage EQUIPMENT OPERA	
	Vendor Total:				**$475.45**			
17062	BUSINESS SOLUTIONS GROUP	54576	12/8/2025	12/8/2025	$384.83			
					203.96	104140.240	Admin OFFICE EXPENSE, SUP	
					115.45	516660.240	Admin OFFICE EXPENSE, SUP	
					19.24	536310.240	Irrigation OFFICE EXPENSE, S	
					46.18	556350.240	Drainage OFFICE EXPENSE, S	
4366-1225	CenturyLink	54603	12/7/2025	12/7/2025	$73.05			
					73.05	104510.280	Parks UTILITIES	Power plant park
764503171	CenturyLink	54603	12/12/2025	12/12/2025	$178.49			
					89.25	104140.280	Admin UTILITIES	111 S Main
					89.24	104210.280	Police UTLITIES	111 S Main
764504225	CenturyLink	54603	12/12/2025	12/12/2025	$305.44			
					305.44	104140.280	Admin UTILITIES	435 N Main
902-1225	CenturyLink	54631	12/19/2025	12/19/2025	$53.45			
					53.45	104140.280	Admin UTILITIES	435 N Main
	Vendor Total:				**$610.43**			
25-1128 WAN R PO# 6208	CHURCH CONSTRUCTION	54516	12/1/2025	12/1/2025	$29,900.00			
					29,900.00	104510.480	Parks RAP Tax	Payment # 2 for Wanlass Park B
25-1212 LA-FES PO# 6247	CHURCH CONSTRUCTION	54604	12/23/2025	12/23/2025	$5,000.00			
					5,000.00	104540.120	Rec PART TIME EMPLOYEES	Part time employee Winterfest

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
	Vendor Total:				**$34,900.00**			
RFD 100041878.	Contreras, Miguel	54577	12/10/2025	12/10/2025	$164.42			
					164.42	512330	Turn on Fee/Renter Deposit	Deposit Refund: 100041878 - C
122025	Cox, Devin	54550	12/6/2025	12/6/2025	$100.00			
					100.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Cornhole Winners
02-232069	Davis Food & Drug #4/Farmers Market	54551	12/4/2025	12/4/2025	$94.87			
					94.87	104540.610	Rec EVENTS, FAIRS, & FESTI	Food for Volunteers
03-740243	Davis Food & Drug #4/Farmers Market	54578	12/5/2025	12/5/2025	$252.87			
					252.87	104540.610	Rec EVENTS, FAIRS, & FESTI	Winterfest Races
65-582076	Davis Food & Drug #4/Farmers Market	54551	12/4/2025	12/4/2025	$66.21			
					66.21	104540.610	Rec EVENTS, FAIRS, & FESTI	Repairs for Train
65-583471	Davis Food & Drug #4/Farmers Market	54551	12/6/2025	12/6/2025	$97.98			
					97.98	104540.610	Rec EVENTS, FAIRS, & FESTI	Supplies for Winterfest
95-86660	Davis Food & Drug #4/Farmers Market	54551	12/1/2025	12/1/2025	$161.00			
					161.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Parade Candy
95-98560	Davis Food & Drug #4/Farmers Market	54606	12/20/2025	12/20/2025	$170.12			
					170.12	104540.610	Rec EVENTS, FAIRS, & FESTI	Santa Bags for Christmas Eve P
95-98570	Davis Food & Drug #4/Farmers Market	54606	12/20/2025	12/20/2025	$54.28			
					54.28	104540.610	Rec EVENTS, FAIRS, & FESTI	Santa Bags for Christmas Eve P
95-99627 PO# 6239	Davis Food & Drug #4/Farmers Market	54606	12/22/2025	12/22/2025	$240.00			
					240.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Gift Cards for Christmas Lighting
	Vendor Total:				**$1,137.33**			
593729834	DeLage Landen Financial Services	54632	12/21/2025	12/21/2025	$341.24			
					180.86	104140.240	Admin OFFICE EXPENSE, SUP	
					102.37	516660.240	Admin OFFICE EXPENSE, SUP	
					17.06	536310.240	Irrigation OFFICE EXPENSE, S	
					40.95	556350.240	Drainage OFFICE EXPENSE, S	
COMM47412026	EMI Health	54607	12/20/2025	12/20/2025	$2,639.35			
					2,639.35	101562	PEHP/AFLAC Insurance Clearin	Dental and Vision Insurance
228025	Empire Waste Services	54519	11/30/2025	11/30/2025	$127.87			
					92.06	104140.280	Admin UTILITIES	
					31.97	516660.280	Admin UTILITIES	
					3.84	556350.250	Drainage EQUIPMENT OPERA	
228026	Empire Waste Services	54519	11/30/2025	11/30/2025	$127.87			
					92.06	104140.280	Admin UTILITIES	
					31.97	516660.280	Admin UTILITIES	
					3.84	556350.250	Drainage EQUIPMENT OPERA	
228027	Empire Waste Services	54519	11/30/2025	11/30/2025	$69.74			
					50.21	104140.280	Admin UTILITIES	
					17.44	516660.280	Admin UTILITIES	
					2.09	556350.250	Drainage EQUIPMENT OPERA	
	Vendor Total:				**$325.48**			
3269-1225	Enbridge	54633	12/22/2025	12/22/2025	$244.04			
					122.02	104140.280	Admin UTILITIES	1/2 111 S Main
					122.02	104210.280	Police UTLITIES	1/2 111 S Main
9924-1225	Enbridge	54633	12/22/2025	12/22/2025	$48.25			
					48.25	104140.280	Admin UTILITIES	435 N Main
	Vendor Total:				**$292.29**			
RFD 100041921.	Eves, David	54608	12/23/2025	12/23/2025	$253.55			
					253.55	512330	Turn on Fee/Renter Deposit	Deposit Refund: 100041921 - Ev

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
121125	FRIEDMAN, EMILY	54609	12/22/2025	12/22/2025	$350.00			
PO# 6236					350.00	104140.610	Admin MISCELLANEOUS SER	Help with Rural Community Gra
F2605E00834	FUEL NETWORK	54552	12/1/2025	12/1/2025	$2,369.52			
					30.95	104160.250	Bldg EQUIPMENT OPERATING	
					1,326.39	104210.250	Police EQUIPMENT OPERATIN	Fuel Amount
					61.90	104240.250	Inspect EQUIPMENT OPERATI	
					11.54	104253.250	Animal EQUIPMENT OPERATI	Marcotte
					175.37	104410.250	Streets EQUIPMENT OPERATI	
					72.21	104510.250	Parks EQUIPMENT OPERATIN	
					495.16	516340.250	O&M EQUIPMENT OPERATIN	
					92.84	536310.250	Irrigation EQUIPMENT OPERA	
					103.16	556350.250	Drainage EQUIPMENT OPERA	
11209-0	GREEN TREE LAWN & LANDSCAPE	54521	11/29/2025	11/29/2025	$450.00			
					450.00	104510.250	Parks EQUIPMENT OPERATIN	Mowing service
11209-6	GREEN TREE LAWN & LANDSCAPE	54634	12/29/2025	12/29/2025	$450.00			
					450.00	104510.250	Parks EQUIPMENT OPERATIN	Mowing service
	Vendor Total:				**$900.00**			
122025	Gubler, Adri	54553	12/6/2025	12/6/2025	$200.00			
					200.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Gingerbread Winner
WF25	GUBLER, KIMBER	54579	12/12/2025	12/12/2025	$600.00			
PO# 6229					600.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Parade, Float, and Suzy Snowfla
RI1201251	GUBLER, KYLE W	54522	12/1/2025	12/1/2025	$500.00			
					500.00	104140.250	Admin EQUIPMENT OPERATIN	Car allowance
WF25	Gubler, Martha	54580	12/12/2025	12/12/2025	$200.00			
					200.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Suzie Snowflake Pageant
WF25	Gubler, Natalie	54581	12/12/2025	12/12/2025	$1,750.00			
PO# 6228					1,750.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Talentfest and Suzy Snowflake P
RFD 100042033.	Hammerhead Pools	54582	12/10/2025	12/10/2025	$884.74			
					884.74	512330	Turn on Fee/Renter Deposit	Deposit Refund: 100042033 - H
WF9.5hrs	Haynes, Ashlyn	54583	12/12/2025	12/12/2025	$190.00			
					190.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Train Rides and repairs 9.5 hour
WF25	Haynes, Jamie	54584	12/12/2025	12/12/2025	$150.00			
					150.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Corn Hole Tournament
121825	Health Equity	121827	12/18/2025	12/18/2025	$21.00			
					7.75	104140.130	Admin EMPLOYEE BENEFITS	
					5.50	104210.130	Police EMPLOYEE BENEFITS	
					7.75	516660.130	Admin EMPLOYEE BENEFITS	
PR112825-6099	Health Equity	121827	12/3/2025	12/3/2025	$761.40			
					536.40	102224	Health Savings Account	PEHP Health Equity-Family
					225.00	102224	Health Savings Account	PEHP Health Equity-Double
PR121225-6099	Health Equity	121827	12/17/2025	12/17/2025	$4,295.54			
					3,644.56	102224	Health Savings Account	PEHP Health Equity-Family
					512.22	102224	Health Savings Account	PEHP Health Equity-Double
					138.76	102224	Health Savings Account	PEHP Health Equity -Single
PR122625-6099	Health Equity		12/30/2025	12/30/2025	$761.40			
					536.40	102224	Health Savings Account	PEHP Health Equity-Family
					225.00	102224	Health Savings Account	PEHP Health Equity-Double
	Vendor Total:				**$5,839.34**			
2025-2816	HURRICANE CITY JUSTICE COURT	54523	11/26/2025	11/26/2025	$250.00			
					250.00	104121.240	Police JUSTICE COURT	December Court Billing

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
2025-2828	HURRICANE CITY JUSTICE COURT	54610	12/16/2025	12/16/2025	$245.00			
					245.00	104121.240	Police JUSTICE COURT	Reimbursement for Indigent Cou
	Vendor Total:				**$495.00**			
11-756	HURRICANE CITY WATER DEPT	54611	12/22/2025	12/22/2025	$361.00			
					61.00	516340.410	O&M PRODUCT OR SERVICE	Power for Ash Creek Springs @
					300.00	516340.410	O&M PRODUCT OR SERVICE	Chlorine & Cylinder rental for bot
268	Imlay, Toni	54612	12/17/2025	12/17/2025	$175.00			
					5.25	104160.250	Bldg EQUIPMENT OPERATING	Jackets with 250 year USA desig
					10.50	104240.250	Inspect EQUIPMENT OPERATI	
					29.75	104410.250	Streets EQUIPMENT OPERATI	
					12.25	104510.250	Parks EQUIPMENT OPERATIN	
					84.00	516340.250	O&M EQUIPMENT OPERATIN	
					15.75	536310.250	Irrigation EQUIPMENT OPERA	
					17.50	556350.250	Drainage EQUIPMENT OPERA	
18022	INTERSTATE ROCK PRODUCTS	54525	11/26/2025	11/26/2025	$44.80			
					44.80	556350.440	Drainage NEW SERVICES	Patch
RI1201252	Iverson, Moses	54526	12/1/2025	12/1/2025	$400.00			
					400.00	104540.120	Rec PART TIME EMPLOYEES	
000498	JOHNSON, MARIDEE	54554	12/6/2025	12/6/2025	$30.97			
					30.97	104540.610	Rec EVENTS, FAIRS, & FESTI	Lights
001430	JOHNSON, MARIDEE	54554	12/5/2025	12/5/2025	$9.93			
					9.93	104540.610	Rec EVENTS, FAIRS, & FESTI	Sock Skating Rink
008748	JOHNSON, MARIDEE	54613	12/22/2025	12/22/2025	$19.20			
					19.20	104540.270	Rec B&G OPERATION AND MA	Cleaner
018568	JOHNSON, MARIDEE	54554	12/6/2025	12/6/2025	$132.32			
					132.32	104540.610	Rec EVENTS, FAIRS, & FESTI	Train Supplies
66-500803	JOHNSON, MARIDEE	54554	12/4/2025	12/4/2025	$83.22			
					83.22	104540.610	Rec EVENTS, FAIRS, & FESTI	Extension Cords
	Vendor Total:				**$275.64**			
121925 PO# 6245	LANTIS FIREWORKS & LASERS	54614	12/23/2025	12/23/2025	$4,100.00			
					4,100.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Remaining Balance of firework s
PR112825-147	LEGAL SHIELD	54527	12/3/2025	12/3/2025	$100.28			
					100.28	102225	Misc Payable	LegalShield
PR121225-147	LEGAL SHIELD	54635	12/17/2025	12/17/2025	$100.28			
					100.28	102225	Misc Payable	LegalShield
PR122625-147	LEGAL SHIELD	54635	12/30/2025	12/30/2025	$100.28			
					100.28	102225	Misc Payable	LegalShield
	Vendor Total:				**$300.84**			
EA1622811	Les Olson	54555	11/30/2025	11/30/2025	$213.27			
					113.03	104140.240	Admin OFFICE EXPENSE, SUP	
					63.98	516660.240	Admin OFFICE EXPENSE, SUP	
					10.67	536310.240	Irrigation OFFICE EXPENSE, S	
					25.59	556350.240	Drainage OFFICE EXPENSE, S	
EA1632179	Les Olson	54615	12/17/2025	12/17/2025	$147.73			
					78.30	104140.240	Admin OFFICE EXPENSE, SUP	
					44.32	516660.240	Admin OFFICE EXPENSE, SUP	
					7.38	536310.240	Irrigation OFFICE EXPENSE, S	
					17.73	556350.240	Drainage OFFICE EXPENSE, S	

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
	Vendor Total:				**$361.00**			
Refund: 1000398	McDowell, Jason	54528	12/1/2025	12/1/2025	$138.83			
					138.83	511311	Accounts Receivable	Refund: 100039849 - McDowell,
95666 PO# 6218	MEGA-PRO INTERNATIONAL	54556	12/1/2025	12/1/2025	$1,001.75			
					1,001.75	104540.610	Rec EVENTS, FAIRS, & FESTI	Volunteer & Employee Shirts
96236 PO# 6238	MEGA-PRO INTERNATIONAL	54616	12/22/2025	12/22/2025	$336.40			
					336.40	104111.250	Council EQUIPMENT OPERATI	Shirts for City Council
	Vendor Total:				**$1,338.15**			
953563	NAPA AUTO PARTS	54529	12/3/2025	12/3/2025	$40.43			
					1.21	104160.250	Bldg EQUIPMENT OPERATING	
					2.43	104240.250	Inspect EQUIPMENT OPERATI	
					6.87	104410.250	Streets EQUIPMENT OPERATI	
					2.83	104510.250	Parks EQUIPMENT OPERATIN	
					19.41	516340.250	O&M EQUIPMENT OPERATIN	
					3.64	536310.250	Irrigation EQUIPMENT OPERA	
					4.04	556350.250	Drainage EQUIPMENT OPERA	
954086	NAPA AUTO PARTS	54617	12/5/2025	12/5/2025	$130.92			
					130.92	104540.610	Rec EVENTS, FAIRS, & FESTI	Repairs for generator
954562	NAPA AUTO PARTS	54557	12/9/2025	12/9/2025	$13.98			
					0.41	104160.250	Bldg EQUIPMENT OPERATING	
					0.84	104240.250	Inspect EQUIPMENT OPERATI	
					2.38	104410.250	Streets EQUIPMENT OPERATI	
					0.98	104510.250	Parks EQUIPMENT OPERATIN	
					6.71	516340.250	O&M EQUIPMENT OPERATIN	
					1.26	536310.250	Irrigation EQUIPMENT OPERA	
					1.40	556350.250	Drainage EQUIPMENT OPERA	
954609	NAPA AUTO PARTS	54557	12/9/2025	12/9/2025	$41.95			
					1.24	104160.250	Bldg EQUIPMENT OPERATING	
					2.52	104240.250	Inspect EQUIPMENT OPERATI	
					7.13	104410.250	Streets EQUIPMENT OPERATI	
					2.94	104510.250	Parks EQUIPMENT OPERATIN	
					20.14	516340.250	O&M EQUIPMENT OPERATIN	
					3.78	536310.250	Irrigation EQUIPMENT OPERA	
					4.20	556350.250	Drainage EQUIPMENT OPERA	
954756	NAPA AUTO PARTS	54585	12/10/2025	12/10/2025	$4.15			
					0.12	104160.250	Bldg EQUIPMENT OPERATING	Spark Plug
					0.25	104240.250	Inspect EQUIPMENT OPERATI	
					0.71	104410.250	Streets EQUIPMENT OPERATI	
					0.29	104510.250	Parks EQUIPMENT OPERATIN	
					1.99	516340.250	O&M EQUIPMENT OPERATIN	
					0.37	536310.250	Irrigation EQUIPMENT OPERA	
					0.42	556350.250	Drainage EQUIPMENT OPERA	
	Vendor Total:				**$231.43**			
1215	PEHP	54618	12/22/2025	12/22/2025	$23,450.06			
					23,450.06	101562	PEHP/AFLAC Insurance Clearin	Health Insurance
122025	PEHP Group Insurance	54619	12/20/2025	12/20/2025	$990.20			
					990.20	101563	PEHP Life Insurance Clearing	Life Insurance
260101	Pelorus Methods, Inc.	54586	12/1/2025	12/1/2025	$2,700.00			
					1,050.00	104140.315	Admin COMPUTER EQUIPME	Software and support
					550.00	104210.315	Police COMPUTER EQUIPMEN	Software and support

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
					550.00	516660.315	Admin SOFTWARE OR INFOR	Software and support
					275.00	536310.315	IrrigationCOMPUTER EQUIPM	Software and support
					275.00	556350.315	Drainage SOFTWARE & COMP	Software and support
02-304963	Petty Cash	54530	12/1/2025	12/1/2025	$9.32			
					9.32	104620.610	Comm COMMUNITY DEVELOP	2024 Staff christmas party
0525	Petty Cash	54530	12/2/2025	12/2/2025	$30.00			
					30.00	104510.250	Parks EQUIPMENT OPERATIN	Mulch for cemetery
122025	Petty Cash	54542	12/10/2025	12/10/2025	$350.00			
					350.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Cash from donations for Festival
2791167-2	Petty Cash	54530	12/1/2025	12/1/2025	$14.35			
					14.35	104140.240	Admin OFFICE EXPENSE, SUP	Mailing
2985626-2	Petty Cash	54530	12/1/2025	12/1/2025	$6.89			
					6.89	104140.240	Admin OFFICE EXPENSE, SUP	Mailing
	Vendor Total:				**$410.56**			
WF25 PO# 6231	Pope, Kim	54587	12/12/2025	12/12/2025	$1,000.00			
					1,000.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Display Prep
123025	PUBLIC EMPLOYEES LTD PROGRAM	54636	12/30/2025	12/30/2025	$848.23			
					848.23	101562	PEHP/AFLAC Insurance Clearin	11/15/25-12/26/25
120325	PURCHASE POWER	54589	12/3/2025	12/3/2025	$200.00			
					106.00	104140.240	Admin OFFICE EXPENSE, SUP	
					60.00	516660.240	Admin OFFICE EXPENSE, SUP	
					10.00	536310.240	Irrigation OFFICE EXPENSE, S	
					24.00	556350.240	Drainage OFFICE EXPENSE, S	
INV0989	R Jones Masonry	54532	12/2/2025	12/2/2025	$24,000.00			
					24,000.00	104620.610	Comm COMMUNITY DEVELOP	Wall for cemetery
INV0994	R Jones Masonry	54558	12/4/2025	12/4/2025	$5,280.00			
					5,280.00	104620.610	Comm COMMUNITY DEVELOP	Cottonwood Hollow trail on Main
	Vendor Total:				**$29,280.00**			
122025	R.A.W. Foundation	54559	12/6/2025	12/6/2025	$300.00			
					300.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Talentfest Audience Winner Char
RI1201253	REBER, FAY E ACH.1203250853.11017		12/1/2025	12/1/2025	$11,000.00			
					11,000.00	104140.311	Admin ATTORNEY	
1191184	RED MOUNTAIN TECHNOLOGY SOLU	54590	12/15/2025	12/15/2025	$435.11			
					435.11	104140.290	Admin TELEPHONE/COMMUNI	Phone system
20571 PO# 6222	RED MOUNTAIN TECHNOLOGY SOLU	54560	12/4/2025	12/4/2025	$6,854.94			
					6,854.94	104620.610	Comm COMMUNITY DEVELOP	Work on 111 South Main Street
20605 PO# 6223	RED MOUNTAIN TECHNOLOGY SOLU	54560	12/4/2025	12/4/2025	$1,440.00			
					1,440.00	104620.610	Comm COMMUNITY DEVELOP	10 enter licenses
	Vendor Total:				**$8,730.05**			
77198	ROADRUNNER AUTOMOTIVE AND DI	54591	12/16/2025	12/16/2025	$79.11			
					79.11	104210.450	Police VEHICLE MAINTANCE	Oil Change-19 Dodge (Alex)
0016-1225	ROCKY MOUNTAIN POWER	54620	12/16/2025	12/16/2025	$231.32			
					231.32	104253.280	Animal UTILITIES	Animal shelter
0017-1225	ROCKY MOUNTAIN POWER	54620	12/16/2025	12/16/2025	$4,369.37			
					730.93	104140.280	Admin UTILITIES	435 N Main & 1/2 111 S Main
					259.38	104210.280	Police UTLITIES	1/2 111 S Main
					2,723.81	104410.280	Streets UTILITIES	Street lights
					243.08	104510.280	Parks UTILITIES	Parks

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
					391.00	516660.280	Admin UTILITIES	Pump station
					21.17	536310.250	Irrigation EQUIPMENT OPERA	Filter station power
0024-1225	ROCKY MOUNTAIN POWER	54620	12/16/2025	12/16/2025	$62.96			
					62.96	104510.280	Parks UTILITIES	Power Plant park
0124-1225	ROCKY MOUNTAIN POWER	54592	12/8/2025	12/8/2025	$35.38			
					35.38	104510.280	Parks UTILITIES	84 W 500 N park
	Vendor Total:				**$4,699.03**			
3055049	SCHOLZEN PRODUCTS CO INC	54621	12/18/2025	12/18/2025	$9.60			
					0.29	104160.250	Bldg EQUIPMENT OPERATING	Cylinder Monthly Rental
					0.58	104240.250	Inspect EQUIPMENT OPERATI	
					1.63	104410.250	Streets EQUIPMENT OPERATI	
					0.67	104510.250	Parks EQUIPMENT OPERATIN	
					4.61	516340.250	O&M EQUIPMENT OPERATIN	
					0.86	536310.250	Irrigation EQUIPMENT OPERA	
					0.96	556350.250	Drainage EQUIPMENT OPERA	
6952559	SCHOLZEN PRODUCTS CO INC	54533	12/1/2025	12/1/2025	$375.36			
					11.26	104160.250	Bldg EQUIPMENT OPERATING	
					22.52	104240.250	Inspect EQUIPMENT OPERATI	
					63.81	104410.250	Streets EQUIPMENT OPERATI	
					26.28	104510.250	Parks EQUIPMENT OPERATIN	
					180.17	516340.250	O&M EQUIPMENT OPERATIN	
					33.78	536310.250	Irrigation EQUIPMENT OPERA	
					37.54	556350.250	Drainage EQUIPMENT OPERA	
6952692	SCHOLZEN PRODUCTS CO INC	54533	12/1/2025	12/1/2025	$284.56			
					284.56	516340.450	O&M SYSTEMS MAINTENANC	Resetter
6953105	SCHOLZEN PRODUCTS CO INC	54533	12/3/2025	12/3/2025	$67.92			
					2.04	104160.250	Bldg EQUIPMENT OPERATING	Gloves
					4.08	104240.250	Inspect EQUIPMENT OPERATI	
					11.55	104410.250	Streets EQUIPMENT OPERATI	
					4.75	104510.250	Parks EQUIPMENT OPERATIN	
					32.60	516340.250	O&M EQUIPMENT OPERATIN	
					6.11	536310.250	Irrigation EQUIPMENT OPERA	
					6.79	556350.250	Drainage EQUIPMENT OPERA	
6954445	SCHOLZEN PRODUCTS CO INC	54561	12/9/2025	12/9/2025	$313.73			
					313.73	516340.450	O&M SYSTEMS MAINTENANC	Setter
6955474	SCHOLZEN PRODUCTS CO INC	54593	12/15/2025	12/15/2025	$33.24			
					33.24	516340.450	O&M SYSTEMS MAINTENANC	Insatite male adapter
	Vendor Total:				**$1,084.41**			
53584122225	Shred St. George	54622	12/22/2025	12/22/2025	$39.95			
					28.76	104140.280	Admin UTILITIES	
					9.99	516660.280	Admin UTILITIES	
					1.20	556350.250	Drainage EQUIPMENT OPERA	
72235	Smith Hartvigsen, PLLC	54562	11/30/2025	11/30/2025	$502.50			
					502.50	104140.311	Admin ATTORNEY	Water Agreements and surplus
WF25	Smith, Ashton	54594	12/12/2025	12/12/2025	$499.00			
					499.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Winterfest overnight security, ma
137144	SOUTHERN UTAH DISTRIBUTING INC	54595	12/10/2025	12/10/2025	$245.37			
					245.37	104210.240	Police OFFICE EXPENSE, SUP	Tissue paper and toilet paper
416722	Southwest Utah Public Health Departme	54563	12/2/2025	12/2/2025	$125.00			
					125.00	516660.460	Admin CONTRACTED SERVIC	Bacterial Analysis for drinking w

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
1691	Spay Doc, Inc	54623	12/4/2025	12/4/2025	$144.00			
					144.00	104253.610	Animal MISC SUPPLIES	Border Collie Amoxicillin and Ey
3-350345	STEAMROLLER COPIES	54564	12/2/2025	12/2/2025	$115.59			
					115.59	104540.610	Rec EVENTS, FAIRS, & FESTI	Maps and Signs
3-350379	STEAMROLLER COPIES	54564	12/3/2025	12/3/2025	$39.48			
					39.48	104540.610	Rec EVENTS, FAIRS, & FESTI	Copies/Poster for Winterfest
3-350400	STEAMROLLER COPIES	54564	12/4/2025	12/4/2025	$30.66			
					30.66	104540.610	Rec EVENTS, FAIRS, & FESTI	Copies/Poster for Winterfest
3-350420	STEAMROLLER COPIES	54564	12/4/2025	12/4/2025	$29.96			
					29.96	104540.610	Rec EVENTS, FAIRS, & FESTI	Copies/Poster for Winterfest
3-350459	STEAMROLLER COPIES	54564	12/5/2025	12/5/2025	$30.25			
					30.25	104540.610	Rec EVENTS, FAIRS, & FESTI	Copies/Poster for Winterfest
	Vendor Total:				**$245.94**			
109	STEGLICH, CHRIS	54624	12/15/2025	12/15/2025	$448.00			
					448.00	104540.120	Rec PART TIME EMPLOYEES	Sound for Winterfest
RI1201254	STEGLICH, RYKER	54535	12/1/2025	12/1/2025	$400.00			
					400.00	104540.120	Rec PART TIME EMPLOYEES	Website / Social media
120125	STEWART, MICHELE	54565	12/1/2025	12/1/2025	$160.00			
					160.00	104540.120	Rec PART TIME EMPLOYEES	Park Cleaning
120825	STEWART, MICHELE	54565	12/8/2025	12/8/2025	$300.00			
					300.00	104540.120	Rec PART TIME EMPLOYEES	Winterfest Cleaning
	Vendor Total:				**$460.00**			
229380	SUMMIT PRINTING	54536	11/26/2025	11/26/2025	$379.82			
					201.30	104140.240	Admin OFFICE EXPENSE, SUP	
					113.95	516660.240	Admin OFFICE EXPENSE, SUP	
					18.99	536310.240	Irrigation OFFICE EXPENSE, S	Envelopes
					45.58	556350.240	Drainage OFFICE EXPENSE, S	
ARIV1008719	SUNRISE ENGINEERING INC	54596	12/8/2025	12/8/2025	$3,150.00			
					966.00	103691	Subdivision set up fee	Miscellaneous Services
					84.00	103691	Subdivision set up fee	Chaco Ridge
					2,100.00	516340.440	O&M NEW SERVICES	2025 Lead Service Line Replac
ARIV1008721	SUNRISE ENGINEERING INC	54625	12/8/2025	12/8/2025	$742.50			
					742.50	104240.120	Inspect PART TIME EMPLOYE	City Planner Services
ARIV1008725	SUNRISE ENGINEERING INC	54625	12/8/2025	12/8/2025	$4,245.00			
					4,245.00	511601	Construction in progress	East SD Trunk Line PH1
	Vendor Total:				**$8,137.50**			
INV3185	TAGG N GO EXPRESS CAR WASH	54537	12/3/2025	12/3/2025	$1,800.00			
					1,800.00	104210.250	Police EQUIPMENT OPERATIN	Annual fleet car washes
WF25	Taylor, Daniel J.	54597	12/12/2025	12/12/2025	$300.00			
					300.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Stage, Gym, hall, front exterior o
WF25	Taylor, Mallory	54598	12/12/2025	12/12/2025	$300.00			
					300.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Stage, Gym, hall, front exterior o
435-1225	TDS BAJA Broadband	54637	12/19/2025	12/19/2025	$35.89			
					35.89	104140.280	Admin UTILITIES	435 N Main
PPP-1225	TDS BAJA Broadband	54637	12/22/2025	12/22/2025	$109.95			
					109.95	104510.280	Parks UTILITIES	Power Plant Park
RWP-1225	TDS BAJA Broadband	54637	12/22/2025	12/22/2025	$109.95			
					109.95	104510.280	Parks UTILITIES	Riverwood Park

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VP-1225	TDS BAJA Broadband	54637	12/19/2025	12/19/2025	$109.95			
					109.95	104510.280	Parks UTILITIES	Vintage park
ZVP-1225	TDS BAJA Broadband	54637	12/19/2025	12/19/2025	$109.95			
					109.95	104510.280	Parks UTILITIES	Zion View Park
	Vendor Total:				**$475.69**			
10529	Tech Legion	54539	12/1/2025	12/1/2025	$1,899.05			
					569.72	104140.315	Admin COMPUTER EQUIPME	
					569.72	104210.315	Police COMPUTER EQUIPMEN	
					455.77	516660.315	Admin SOFTWARE OR INFOR	
					151.92	536310.315	IrrigationCOMPUTER EQUIPM	
					151.92	556350.315	Drainage SOFTWARE & COMP	
122025	The Sharing Place	54566	12/6/2025	12/6/2025	$300.00			
					300.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Committee Choice Winner Chari
1225	U.S. POSTAL SERVICE	54502	12/2/2025	12/2/2025	$767.52			
					406.79	104140.240	Admin OFFICE EXPENSE, SUP	
					230.26	516660.240	Admin OFFICE EXPENSE, SUP	
					38.37	536310.240	Irrigation OFFICE EXPENSE, S	
					92.10	556350.240	Drainage OFFICE EXPENSE, S	
1623582	UTAH LOCAL GOVERNMENT TRUST	121125	12/2/2025	12/2/2025	$2,442.56			
					2,442.56	101564	Workers Comp Clearing	Worker's comp
1623583	UTAH LOCAL GOVERNMENT TRUST	121125	12/2/2025	12/2/2025	$28,674.83			
					28,674.83	101564	Workers Comp Clearing	2024 Workers Comp Audit
	Vendor Total:				**$31,117.39**			
112025	UTAH RETIREMENT SYSTEMS	54540	11/26/2025	11/26/2025	$223.18			
					223.18	102223	Retirement Payable	contribution
PR112825-501	UTAH RETIREMENT SYSTEMS	120326	12/3/2025	12/3/2025	$14,062.05			
					888.84	102223	Retirement Payable	401k
					11,369.16	102223	Retirement Payable	Retirement
					928.90	102223	Retirement Payable	457
					614.00	102223	Retirement Payable	Roth IRA
					261.15	102223	Retirement Payable	457 Loan
PR121225-501	UTAH RETIREMENT SYSTEMS	121826	12/17/2025	12/17/2025	$15,108.57			
					927.97	102223	Retirement Payable	401k
					12,376.55	102223	Retirement Payable	Retirement
					928.90	102223	Retirement Payable	457
					614.00	102223	Retirement Payable	Roth IRA
					261.15	102223	Retirement Payable	457 Loan
PR122625-501	UTAH RETIREMENT SYSTEMS		12/30/2025	12/30/2025	$14,075.99			
					889.81	102223	Retirement Payable	401k
					11,382.13	102223	Retirement Payable	Retirement
					928.90	102223	Retirement Payable	457
					614.00	102223	Retirement Payable	Roth IRA
					261.15	102223	Retirement Payable	457 Loan
	Vendor Total:				**$43,469.79**			
PR112825-449	Utah State Tax Commission		12/3/2025	12/3/2025	$2,707.39			
					2,707.39	102222	State Witholding	State Income Tax
PR113025-449	Utah State Tax Commission		12/3/2025	12/3/2025	$50.00			
					50.00	102222	State Witholding	State Income Tax
PR121225-449	Utah State Tax Commission		12/17/2025	12/17/2025	$3,036.37			
					3,036.37	102222	State Witholding	State Income Tax

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
PR122625-449	Utah State Tax Commission		12/30/2025	12/30/2025	$2,692.66			
					2,692.66	102222	State Witholding	State Income Tax
	Vendor Total:				**$8,486.42**			
AK27	VALENTI, JOHN V	54567	12/2/2025	12/2/2025	$60.00			
					60.00	104111.230	Council TRAVEL & TRAINING	ULCT training reimbursement
6130935983	VERIZON WIRELESS	54626	12/13/2025	12/13/2025	$768.95			
					124.77	104140.290	Admin TELEPHONE/COMMUNI	
					412.06	104210.290	Police TELEPHONE	
					100.52	104253.250	Animal EQUIPMENT OPERATI	
					71.60	516660.290	Admin TELEPHONE & COMMU	
					30.00	536310.290	Irrigation TELEPHONE & COM	
					30.00	556350.250	Drainage EQUIPMENT OPERA	
1225	Wallis, Cassidi	54638	12/24/2025	12/24/2025	$550.00			
					3.00	104160.250	Bldg EQUIPMENT OPERATING	
					450.00	104160.270	Bldg B&G OPERATION AND M	December Cleaning
					6.00	104240.250	Inspect EQUIPMENT OPERATI	
					17.00	104410.250	Streets EQUIPMENT OPERATI	
					7.00	104510.250	Parks EQUIPMENT OPERATIN	
					48.00	516340.250	O&M EQUIPMENT OPERATIN	
					9.00	536310.250	Irrigation EQUIPMENT OPERA	
					10.00	556350.250	Drainage EQUIPMENT OPERA	
195315	WASHINGTON CO SOLID WASTE	54627	11/30/2025	11/30/2025	$29,210.03			
					29,210.03	546260.410	Garbage PAYMENT TO WASH	November
Elections	WASHINGTON COUNTY TREASURER	54570	12/1/2025	12/1/2025	$6,889.25			
					6,889.25	104170.610	Admin ELECTIONS	General and Primary elections 2
Elections2	WASHINGTON COUNTY TREASURER	54601	12/15/2025	12/15/2025	$4,040.35			
					4,040.35	104170.610	Admin ELECTIONS	2025 Elections
	Vendor Total:				**$10,929.60**			
54609	WCWCD	54569	11/30/2025	11/30/2025	$3,270.16			
					3,270.16	516660.410	Admin PRODUCT OR SERVIC	Water devekopment surcharge f
54610	WCWCD	54569	11/30/2025	11/30/2025	$682.10			
					682.10	516660.260	Admin WCWCD Excess surchar	Excess Conservation Surcharge
54638	WCWCD	54569	11/30/2025	11/30/2025	$6,743.70			
					6,743.70	516660.440	Admin CONNECTION COSTS	Resdenital conntections
86	WCWCD	54569	12/2/2025	12/2/2025	($549.10)			
					-549.10	516660.260	Admin WCWCD Excess surchar	Excess Water Surcharge
	Vendor Total:				**$10,146.86**			
RI1201255	Weeks, James	ACH.1203250853.7220	12/1/2025	12/1/2025	$1,500.00			
					1,500.00	104140.311	Admin ATTORNEY	
93312G	Willard, Jeannie	54602	12/1/2025	12/1/2025	$72.61			
					72.61	104540.610	Rec EVENTS, FAIRS, & FESTI	Winterfest Races
INV-XPR029812	Xpress Bill Pay	121126	11/30/2025	11/30/2025	$1,170.83			
					1,170.83	104140.460	Admin CONTRACT SERVICES	November
25-3990 PO# 6244	YUCCA PORTABLES	54628	12/23/2025	12/23/2025	$1,390.00			
					1,390.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Porta Potties
001713	ZIONS FIRST NATIONAL BANK CC		12/1/2025	12/1/2025	$258.18			
					258.18	104540.610	Rec EVENTS, FAIRS, & FESTI	Winterfest-Lights and supplies
004292 PO# 6217	ZIONS FIRST NATIONAL BANK CC		12/4/2025	12/4/2025	$37.06			
					37.06	104140.230	Admin TRAVEL & TRAINING	Luinch with SUU MPA Program

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
008343	ZIONS FIRST NATIONAL BANK CC		12/8/2025	12/8/2025	$12.75			
					12.75	104210.240	Police OFFICE EXPENSE, SUP	Post Office charg
008584	ZIONS FIRST NATIONAL BANK CC		12/8/2025	12/8/2025	($247.65)			
					-7.42	104160.250	Bldg EQUIPMENT OPERATING	Return Battery Autozone
					-14.86	104240.250	Inspect EQUIPMENT OPERATI	
					-42.10	104410.250	Streets EQUIPMENT OPERATI	
					-17.34	104510.250	Parks EQUIPMENT OPERATIN	
					-118.87	516340.250	O&M EQUIPMENT OPERATIN	
					-22.29	536310.250	Irrigation EQUIPMENT OPERA	
					-24.77	556350.250	Drainage EQUIPMENT OPERA	
015103	ZIONS FIRST NATIONAL BANK CC		12/15/2025	12/15/2025	$291.00			
					291.00	104210.610	Police MISC SUPPLIES	
016882	ZIONS FIRST NATIONAL BANK CC		12/16/2025	12/16/2025	$180.41			
					5.41	104160.250	Bldg EQUIPMENT OPERATING	
					10.82	104240.250	Inspect EQUIPMENT OPERATI	
					30.67	104410.250	Streets EQUIPMENT OPERATI	
					12.63	104510.250	Parks EQUIPMENT OPERATIN	
					86.60	516340.250	O&M EQUIPMENT OPERATIN	
					16.24	536310.250	Irrigation EQUIPMENT OPERA	
					18.04	556350.250	Drainage EQUIPMENT OPERA	
017615	ZIONS FIRST NATIONAL BANK CC		12/17/2025	12/17/2025	$7.85			
					7.85	104210.250	Police EQUIPMENT OPERATIN	Post Office
017616	ZIONS FIRST NATIONAL BANK CC		12/17/2025	12/17/2025	$52.40			
					52.40	536310.240	Irrigation OFFICE EXPENSE, S	Delinquent irrigation certified lett
026240 PO# 6206	ZIONS FIRST NATIONAL BANK CC		11/26/2025	11/26/2025	$19.34			
					19.34	104540.610	Rec EVENTS, FAIRS, & FESTI	Blizard Bingo
11127141	ZIONS FIRST NATIONAL BANK CC		12/1/2025	12/1/2025	$21.00			
					21.00	104210.250	Police EQUIPMENT OPERATIN	Department of Consumer Protec
112625	ZIONS FIRST NATIONAL BANK CC		11/26/2025	11/26/2025	$23.68			
					23.68	104140.240	Admin OFFICE EXPENSE, SUP	Wondershare and Foreign Tran
112725	ZIONS FIRST NATIONAL BANK CC		11/27/2025	11/27/2025	$20.30			
					20.30	104140.240	Admin OFFICE EXPENSE, SUP	Wondershare and Foreign Tran
1212	ZIONS FIRST NATIONAL BANK CC		12/12/2025	12/12/2025	$10.25			
					0.30	104160.250	Bldg EQUIPMENT OPERATING	Wash Kaige's truck
					0.62	104240.250	Inspect EQUIPMENT OPERATI	
					1.74	104410.250	Streets EQUIPMENT OPERATI	
					0.72	104510.250	Parks EQUIPMENT OPERATIN	
					4.92	516340.250	O&M EQUIPMENT OPERATIN	
					0.92	536310.250	Irrigation EQUIPMENT OPERA	
					1.03	556350.250	Drainage EQUIPMENT OPERA	
123025 PO# 6249	ZIONS FIRST NATIONAL BANK CC		12/29/2025	12/29/2025	$200.00			
					200.00	104140.230	Admin TRAVEL & TRAINING	Ticket to What's Up Down South
18144	ZIONS FIRST NATIONAL BANK CC		12/16/2025	12/16/2025	$56.88			
					56.88	104111.250	Council EQUIPMENT OPERATI	Name plates
21477593	ZIONS FIRST NATIONAL BANK CC		12/2/2025	12/2/2025	$15.00			
					15.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Coral Cliffs Cinema Gingerbread
21636938 PO# 6221	ZIONS FIRST NATIONAL BANK CC		12/4/2025	12/4/2025	$344.75			
					344.75	104540.250	Rec EQUIPMENT OPERATING	Service side-by-side
2178663	ZIONS FIRST NATIONAL BANK CC		12/5/2025	12/5/2025	$99.05			
					2.98	104160.250	Bldg EQUIPMENT OPERATING	Makita batteries

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
					5.94	104240.250	Inspect EQUIPMENT OPERATI	
					16.84	104410.250	Streets EQUIPMENT OPERATI	
					6.93	104510.250	Parks EQUIPMENT OPERATIN	
					47.54	516340.250	O&M EQUIPMENT OPERATIN	
					8.91	536310.250	Irrigation EQUIPMENT OPERA	
					9.91	556350.250	Drainage EQUIPMENT OPERA	
2478	ZIONS FIRST NATIONAL BANK CC		12/2/2025	12/2/2025	$411.24			
					411.24	104620.610	Comm COMMUNITY DEVELOP	Staff Christmas party
4173826	ZIONS FIRST NATIONAL BANK CC		12/10/2025	12/10/2025	$137.30			
					137.30	104160.250	Bldg EQUIPMENT OPERATING	
6129	ZIONS FIRST NATIONAL BANK CC		12/1/2025	12/1/2025	$189.40			
					189.40	104540.610	Rec EVENTS, FAIRS, & FESTI	Food for Volunteers
7081019 PO# 6241	ZIONS FIRST NATIONAL BANK CC		12/16/2025	12/16/2025	$715.84			
					21.48	104160.250	Bldg EQUIPMENT OPERATING	Equipment repairs and Fuel
					42.95	104240.250	Inspect EQUIPMENT OPERATI	Equipment repairs and Fuel
					121.69	104410.250	Streets EQUIPMENT OPERATI	Equipment repairs and Fuel
					50.11	104510.250	Parks EQUIPMENT OPERATIN	Equipment repairs and Fuel
					343.60	516340.250	O&M EQUIPMENT OPERATIN	Equipment repairs and Fuel
					64.43	536310.250	Irrigation EQUIPMENT OPERA	Equipment repairs and Fuel
					71.58	556350.250	Drainage EQUIPMENT OPERA	Equipment repairs and Fuel
732955	ZIONS FIRST NATIONAL BANK CC		12/4/2025	12/4/2025	$10.00			
					10.00	104540.610	Rec EVENTS, FAIRS, & FESTI	Movie Ticket for Gingerbread aw
9301859 PO# 6216	ZIONS FIRST NATIONAL BANK CC		12/4/2025	12/4/2025	$94.78			
					94.78	104140.315	Admin COMPUTER EQUIPME	Micro SD Card
9537829	ZIONS FIRST NATIONAL BANK CC		11/28/2025	11/28/2025	$6.39			
					6.39	104140.240	Admin OFFICE EXPENSE, SUP	Mouse
VP_L809L94P	ZIONS FIRST NATIONAL BANK CC		12/8/2025	12/8/2025	$56.55			
					56.55	104210.250	Police EQUIPMENT OPERATIN	Shane and Alex business cards
	Vendor Total:				**$3,023.75**			
PR112825-234	ZIONS FIRST NATIONAL BANK.	120325	12/3/2025	12/3/2025	$16,628.13			
					8,104.40	102221	FICA & FWT Witholding	Social Security Tax
					1,895.38	102221	FICA & FWT Witholding	Medicare Tax
					6,628.35	102221	FICA & FWT Witholding	Federal Income Tax
PR113025-234	ZIONS FIRST NATIONAL BANK.	120325	12/3/2025	12/3/2025	$628.80			
					465.00	102221	FICA & FWT Witholding	Social Security Tax
					108.80	102221	FICA & FWT Witholding	Medicare Tax
					55.00	102221	FICA & FWT Witholding	Federal Income Tax
PR121225-234	ZIONS FIRST NATIONAL BANK.	121825	12/17/2025	12/17/2025	$19,149.89			
					9,060.72	102221	FICA & FWT Witholding	Social Security Tax
					2,119.08	102221	FICA & FWT Witholding	Medicare Tax
					7,970.09	102221	FICA & FWT Witholding	Federal Income Tax
PR122625-234	ZIONS FIRST NATIONAL BANK.		12/30/2025	12/30/2025	$16,458.18			
					8,034.82	102221	FICA & FWT Witholding	Social Security Tax
					1,879.16	102221	FICA & FWT Witholding	Medicare Tax
					6,544.20	102221	FICA & FWT Witholding	Federal Income Tax
	Vendor Total:				**$52,865.00**			
			Total:		**$436,757.36**			

GL Account Summary

27,041.68	101562	PEHP/AFLAC Insurance Clearin
990.20	101563	PEHP Life Insurance Clearing
31,117.39	101564	Workers Comp Clearing

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
					52,865.00	102221	FICA & FWT Witholding	
					8,486.42	102222	State Witholding	
					43,469.79	102223	Retirement Payable	
					5,902.04	102224	Health Savings Account	
					300.84	102225	Misc Payable	
					1,050.00	103691	Subdivision set up fee	
					60.00	104111.230	Council TRAVEL & TRAINING	
					393.28	104111.250	Council EQUIPMENT OPERATI	
					495.00	104121.240	Police JUSTICE COURT	
					7.75	104140.130	Admin EMPLOYEE BENEFITS	
					237.06	104140.230	Admin TRAVEL & TRAINING	
					1,361.85	104140.240	Admin OFFICE EXPENSE, SUP	
					500.00	104140.250	Admin EQUIPMENT OPERATIN	
					2,008.32	104140.280	Admin UTILITIES	
					559.88	104140.290	Admin TELEPHONE/COMMUNI	
					13,002.50	104140.311	Admin ATTORNEY	
					1,714.50	104140.315	Admin COMPUTER EQUIPME	
					1,170.83	104140.460	Admin CONTRACT SERVICES	
					350.00	104140.610	Admin MISCELLANEOUS SER	
					264.82	104160.250	Bldg EQUIPMENT OPERATING	
					1,356.00	104160.270	Bldg B&G OPERATION AND M	
					10,929.60	104170.610	Admin ELECTIONS	
					5.50	104210.130	Police EMPLOYEE BENEFITS	
					258.12	104210.240	Police OFFICE EXPENSE, SUP	
					3,211.79	104210.250	Police EQUIPMENT OPERATIN	
					470.64	104210.280	Police UTLITIES	
					412.06	104210.290	Police TELEPHONE	
					1,119.72	104210.315	Police COMPUTER EQUIPMEN	
					79.11	104210.450	Police VEHICLE MAINTANCE	
					291.00	104210.610	Police MISC SUPPLIES	
					742.50	104240.120	Inspect PART TIME EMPLOYE	
					171.09	104240.250	Inspect EQUIPMENT OPERATI	
					112.06	104253.250	Animal EQUIPMENT OPERATI	
					61.28	104253.270	Animal B&G OPERATIONS AN	
					231.32	104253.280	Animal UTILITIES	
					144.00	104253.610	Animal MISC SUPPLIES	
					484.74	104410.250	Streets EQUIPMENT OPERATI	
					2,723.81	104410.280	Streets UTILITIES	
					1,129.61	104510.250	Parks EQUIPMENT OPERATIN	
					854.27	104510.280	Parks UTILITIES	
					29,900.00	104510.480	Parks RAP Tax	
					6,708.00	104540.120	Rec PART TIME EMPLOYEES	
					344.75	104540.250	Rec EQUIPMENT OPERATING	
					19.20	104540.270	Rec B&G OPERATION AND MA	
					16,055.06	104540.610	Rec EVENTS, FAIRS, & FESTI	
					38,319.50	104620.610	Comm COMMUNITY DEVELOP	
					309,483.88		**Total**	
					258.73	511311	Accounts Receivable	
					4,245.00	511601	Construction in progress	
					1,690.51	512330	Turn on Fee/Renter Deposit	
					1,368.71	516340.250	O&M EQUIPMENT OPERATIN	
					361.00	516340.410	O&M PRODUCT OR SERVICE	
					2,100.00	516340.440	O&M NEW SERVICES	
					680.29	516340.450	O&M SYSTEMS MAINTENANC	
					7.75	516660.130	Admin EMPLOYEE BENEFITS	
					730.33	516660.240	Admin OFFICE EXPENSE, SUP	

Invoice No.	Vendor	Check No.	Ledger Date	Due Date	Amount	Account No.	Account Name.	Description
					133.00	516660.260	Admin WCWCD Excess surchar	
					607.37	516660.280	Admin UTILITIES	
					71.60	516660.290	Admin TELEPHONE & COMMU	
					1,005.77	516660.315	Admin SOFTWARE OR INFOR	
					3,270.16	516660.410	Admin PRODUCT OR SERVIC	
					6,743.70	516660.440	Admin CONNECTION COSTS	
					125.00	516660.460	Admin CONTRACTED SERVIC	
					23,398.92		**Total**	
					72,650.75	526260.520	Sewer PAYMENT TO ASH CRE	
					174.11	536310.240	Irrigation OFFICE EXPENSE, S	
					277.78	536310.250	Irrigation EQUIPMENT OPERA	
					30.00	536310.290	Irrigation TELEPHONE & COM	
					426.92	536310.315	IrrigationCOMPUTER EQUIPM	
					908.81		**Total**	
					29,210.03	546260.410	Garbage PAYMENT TO WASH	
					292.13	556350.240	Drainage OFFICE EXPENSE, S	
					341.12	556350.250	Drainage EQUIPMENT OPERA	
					426.92	556350.315	Drainage SOFTWARE & COMP	
					44.80	556350.440	Drainage NEW SERVICES	
					1,104.97		**Total**	
					$436,757.36		**GL Account Summary Total**	

RESOLUTION NO.2026-01

A RESOLUTION OF THE CITY COUNCIL OF LAVERKIN, UTAH, DESIGNATING TWO (2) REPRESENTATIVES TO SERVE ON THE ADMINISTRATIVE CONTROL BOARD OF ASH CREEK SPECIAL SERVICE DISTRICT.

WHEREAS Ash Creek Special Service District ("District") is a special service district organized under Title 17D of the Utah Code for the purpose of providing wastewater collection and treatment services to areas in east Washington County, including the municipalities of Hurricane, LaVerkin, Toquerville, Virgin and Apple Valley, Utah; and

WHEREAS, pursuant to Utah Code § 17D-1-301, the District is governed by an Administrative Control Board ("Board") whose members are appointed by the Washington County Commission with input from the participating municipalities; and

WHEREAS LaVerkin is a participating municipality within Washington County that receives services from the District and is entitled to two (2) representation on the Board, one of whom shall be the Mayor, and the other of whom shall be a member of the LaVerkin City Council; and

WHEREAS LaVerkin desires to designate Mayor Kelly B. Wilson and Scott Pectol, a member of the LaVerkin City Council, to serve on the Board, with such appointment becoming effective only upon approval and formal appointment by the Washington County Commission as the governing authority of the District; and

WHEREAS LaVerkin further desires that the appointments shall continue until the appointees' municipal term of office expires, or until LaVerkin designates a replacement by subsequent resolution, whichever occurs first.

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE CITY COUNCIL OF LAVERKIN, UTAH, AS FOLLOWS:

1. Appointment. The LaVerkin City Council hereby designates Mayor Kelly B. Wilson, and Scott Pectol, a duly elected member of the LaVerkin City Council, to serve on the Administrative Control Board of Ash Creek Special Service District.

2. Effective Date of Appointment. This designation shall become effective upon approval and appointment by the Washington County Commission, acting as the governing authority of the District.

3. Term of Service. The term of service of each appointee shall continue until the expiration of each appointee's municipal elected term, or until this designation is rescinded and replaced by a subsequent resolution of the LaVerkin City Council, whichever occurs first.

PASSED AND APPROVED this _____ day of _____, 2026.

City of LaVerkin

_____
Mayor

Attest:

_____
Nancy Cline, City Recorder

DRAFT

RESOLUTION NO.2026-02

A RESOLUTION OF THE CITY COUNCIL OF LAVERKIN, UTAH, APPOINTING A REPRESENTATIVE TO SERVE ON THE ADMINISTRATIVE CONTROL BOARD OF WASHINGTON COUNTY SPECIAL SERVICE DISTRICT NO. 1

WHEREAS, Washington County Special Service District No. 1 ("District") is a special service district organized under Title 17D of the Utah Code for the purpose of providing solid waste collection and disposal services within Washington County, Utah; and

WHEREAS, pursuant to Utah Code § 17D-1-301, the District is governed by an Administrative Control Board ("Board") whose members are appointed by the Washington County Commission with input from the participating municipalities; and

WHEREAS, LaVerkin is a participating municipality within Washington County that receives services from the District and is entitled to a representative on the Board; and

WHEREAS, LaVerkin desires to designate a member of its governing body to serve on the Board, with such appointment becoming effective only upon approval and formal appointment by the Washington County Commission as the governing authority of the District; and

WHEREAS, LaVerkin further desires that the appointment shall continue until the appointee's municipal term of office expires, or until LaVerkin designates a replacement by subsequent resolution, whichever first occurs,

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE CITY COUNCIL OF LAVERKIN, UTAH, AS FOLLOWS:

1. Appointment. The LaVerkin City Council hereby designates Amanda Barr, a duly elected member of the LaVerkin City Council, to serve on the Administrative Control Board of Washington County Special Service District No. 1.

2. Effective Date of Appointment. This designation shall become effective upon approval and appointment by the Washington County Commission, acting as the governing authority of the District.

3. Term of Service. The appointee's term shall continue until the expiration of his or her municipal elected term, or until this designation is rescinded and replaced by a subsequent resolution of the City of LaVerkin, whichever occurs first.

PASSED AND APPROVED this _____ day of _____, 2026.

City of LaVerkin

_____
Mayor

Attest:

_____
Nancy Cline, City Recorder

DRAFT

RESOLUTION NO. 2026-03

A RESOLUTION OF THE CITY COUNCIL OF LAVERKIN, UTAH, APPOINTING A REPRESENTATIVE TO SERVE ON THE ADMINISTRATIVE CONTROL BOARD OF SOUTHWEST MOSQUITO ABATEMENT AND CONTROL DISTRICT.

WHEREAS Southwest Mosquito Abatement and Control District ("District") is a special district organized under Title 17B of the Utah Code for the purpose of providing mosquito abatement and control services within Washington County, Utah; and

WHEREAS pursuant to Utah Code § 17B-1-301, the District is governed by a board of trustees ("Board") whose members are appointed by resolution of each municipality participating in the District; and

WHEREAS LaVerkin is a participating municipality within Washington County that receives services from the District and is entitled to appoint a representative to serve on the Board; and

WHEREAS LaVerkin desires to appoint a member of its governing body to serve on the Board; and

WHEREAS LaVerkin further desires that the appointment shall continue until the appointee's municipal term of office expires, or until LaVerkin designates a replacement by subsequent resolution, whichever occurs first.

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE CITY COUNCIL OF LAVERKIN, UTAH, AS FOLLOWS:

1. Appointment. The LaVerkin City Council hereby appoints John Valenti, a duly elected member of the LaVerkin City Council, to serve on the Board of Trustees of Southwest Mosquito Abatement and Control District.

2. Effective Date of Appointment. This designation shall become effective upon formal approval of this resolution.

3. Term of Service. The appointee's term shall continue until the expiration of his municipal term of office, or until this appointment is rescinded and replaced by a subsequent resolution of the LaVerkin City Council, whichever occurs first.

PASSED AND APPROVED this _____ day of _____, 2026.

City of LaVerkin

_____
Mayor

Attest:

_____
Nancy Cline, City Recorder

DRAFT

RESOLUTION NO.2026-04

A RESOLUTION OF THE CITY COUNCIL OF LAVERKIN, UTAH, DESIGNATING A REPRESENTATIVE TO SERVE ON THE ADMINISTRATIVE CONTROL BOARD OF HURRICANE VALLEY FIRE SPECIAL SERVICE DISTRICT.

WHEREAS Hurricane Valley Fire Special Service District is a special service district organized under Title 17D of the Utah Code for the purpose of providing fire prevention and suppression services within east Washington County, Utah; and

WHEREAS, pursuant to Utah Code § 17D-1-301, the District is governed by an Administrative Control Board ("Board") whose members are appointed by the Washington County Commission with input from the participating municipalities; and

WHEREAS LaVerkin is a participating municipality within Washington County that receives services from the District and is entitled to a representative on the Board; and

WHEREAS LaVerkin desires to designate a member of its governing body to serve on the Board, with such appointment becoming effective only upon approval and formal appointment by the Washington County Commission as the governing authority of the District; and

WHEREAS LaVerkin further desires that the appointment shall continue until the appointee's municipal term of office expires, or until LaVerkin designates a replacement by subsequent resolution, whichever first occurs,

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE CITY COUNCIL OF LAVERKIN, UTAH, AS FOLLOWS:

1. Appointment. The LaVerkin City Council hereby designates Scott Pectol, a duly elected member of the LaVerkin City Council, to serve on the Administrative Control Board of Hurricane Valley Fire Special Service District.

2. Effective Date of Appointment. This designation shall become effective upon approval and appointment by the Washington County Commission, acting as the governing authority of the District.

3. Term of Service. The appointee's term shall continue until the expiration of his or her municipal elected term, or until this designation is rescinded and replaced by a subsequent resolution of the City of LaVerkin, whichever occurs first.

PASSED AND APPROVED this _____ day of _____, 2026.

City of LaVerkin

_____
Mayor

Attest:

_____
Nancy Cline, City Recorder

DRAFT

SUNRISE ENGINEERING

11 North 300 West, Washington, Utah 84780
Tel: 435.652.8450 | **Fax**: 435.652.8416

WORK RELEASE NO. 2026-1

LAVERKIN CITY SECONDARY WATER IMPROVEMENTS

LAVERKIN CITY
435 N. MAIN
LAVERKIN, UT 84745

EXECUTION AND EFFECTIVE DATE

This Work Release No. 2026-1 has been executed by the duly authorized representatives of the parties and shall be effective as of the date of execution by CLIENT.

CLIENT:	LAVERKIN CITY	ENGINEER:	Sunrise Engineering, LLC
By:		By:	
Date:	Jan 7, 2026	Date:	12-16-25
Name:	Kelly Wilson	Name:	Gregory D. Potter, P.E.
Title:	Mayor	Title:	President and CEO

WORK RELEASE NO. 2026-1

This Work Release is entered into by and between LAVERKIN CITY (CLIENT) and Sunrise Engineering, LLC (ENGINEER) pursuant to Article 1 of the parties' Agreement for Engineering and Technical Services, dated January 1, 2010, hereinafter referred to as the "Agreement".

RECITAL

Pursuant to the Agreement, CLIENT and ENGINEER desire to identify certain engineering and/or technical services to be performed by ENGINEER. Such services are hereinafter referred to as ENGINEER's "Services" or "Scope of Services", and the assumptions, terms, conditions, promises and obligations of ENGINEER's Services are as described in this Work Release; furthermore, the terms, conditions, promises and obligations of the Agreement are incorporated by reference into this Work Release.

CLIENT's project for which ENGINEER's Services are being retained is the "Relevant Project" as defined in the Agreement and summarized in Article 1: Background Information. The Relevant Project is generally referred to herein as "project" or "the project".

ARTICLES

It is agreed that ENGINEER will perform the following Services:

1. BACKGROUND INFORMATION

CLIENT has furnished the following project information to ENGINEER and ENGINEER's Scope of Services is being proposed based on this background. As the project moves forward, some of the information may change or be refined, and additional information may become known, resulting in the possible need to change, refine, or supplement the Scope of Services. Details relative to CLIENT's project include the following:

1. Relevant Project Name: **LaVerkin City Secondary Water Improvements**
2. Type of Facility: **Secondary Water (Irrigation) System**
3. Size of Facility: **Proposed irrigation pipelines include PVC C900 pipe of the following approximate lengths and sizes: approximately 9,200 lineal feet of 4-inch diameter pipe, 21,100 lineal feet of 6-inch diameter pipe, 2,500 lineal feet of 8-inch diameter pipe, 4,000 lineal feet of 10-inch diameter pipe, 2,200 lineal feet of 12-inch diameter pipe, and 3,900 lineal feet of 15-inch diameter pipe.**
4. Facility Location: **LaVerkin City, Washington County, Utah**
5. Summary of Improvements: **The project includes the design and installation of new irrigation lines in multiple streets throughout LaVerkin City to replace existing irrigation lines that are aged or are located in the back lots of private properties. The goal is to relocate irrigation mains currently within residents' properties in LaVerkin to city-owned streets and install new service lines running to residents' properties. The proposed irrigation mains in the streets will consist of 4-inch and 6-inch diameter lines. The new distribution lines will include new service connections located at the front of each lot. In addition to moving the distribution to within the City right-of-way, this project will also include the following proposed irrigation mainline improvements: an irrigation mainline will be installed along 100 East between 500 North and 480 South consisting of 15-inch, 12-inch, and 8-inch pipe; a 10-inch irrigation mainline will be installed along 500 North on the west side of State Street and along 300 West between 500 North and 300 North, and an 8-inch irrigation mainline will be installed along part of 360 West. These mainline improvements are being installed to assist with maintaining the existing**

level of pressures in the irrigation system after the construction of the new LaVerkin Pond and Pipeline project. (see attached Preliminary Project Exhibit)

6. Preliminary Construction Estimate: **See attached Preliminary Opinions of Cost from LaVerkin City Secondary Water Feasibility Study (see attached Preliminary Opinion of Cost)**
7. Funding Sources: **Funding is anticipated to be provided by Washington County Water Conservancy District (WCWCD) through interlocal agreement with CLIENT.**
8. Relevant Studies, Reports, Plans: **LaVerkin Secondary Water Feasibility Study 2025**
9. Design CAD Standards: **Engineer's CAD standards**
10. Design Code Standards: **LaVerkin City Design and Construction Standards & Details**
11. Bidding & Contract Documents: **EJCDC C-Series**
12. Construction General Conditions: **EJCDC C-700**
13. Project Specifications: **CLIENT's Design and Construction Standards, Engineer's Special Provisions**
14. Anticipated Drawing Contents: **General Sheets, Plan & Profile Sheets, Utility Sheets, and Detail Sheets**
15. Expected Construction Start: **Fall 2026**
16. Number of Prime Construction Contracts: **One**
17. Expected Construction Duration: **450 Calendar Days**
18. Project Assumptions: **It is assumed that improvements will be installed in the existing city right-of-way (ROW) or existing easements and that no additional ROW or easements will be required. It is assumed that irrigation services on this project will be installed to the property line and that private property owners will be responsible for connecting their individual systems. It is anticipated that ENGINEER will perform Bidding/Proposal and Construction Phase administrative services in a primary role for this project. It is assumed that ENGINEER will provide the services of a construction observer. It is assumed that the construction observer will provide part-time representation at the site at approximately 20 hours per week for the Expected Construction Duration. Funding and payments for this project will be provided and made by WCWCD according to the terms outlined in the Memorandum of Understanding signed by CLIENT and WCWCD.**
19. Known Project Limitations: **Project will include coordination with property owners on location of desired irrigation connection; this coordination could result in delays in design or construction if property owners are non-responsive. This project will provide new front lot connection points but will not tie into private property owners' individual irrigation systems.**
20. Other Pertinent Information: **Project will include coordination with CLIENT and WCWCD.**

2. SCOPE OF SERVICES

Based on the Background Information and for the project summarized above, ENGINEER proposes to perform the following engineering Scope of Services:

1. <u>Management of Engineering Services</u>
   a) All phases of ENGINEER's services will include management of ENGINEER's project-specific responsibilities, including but not limited to the following management tasks:
      i) Develop and submit an engineering services schedule.
      ii) Coordinate services within ENGINEER's internal team, including subconsultants, if any.
      iii) Prepare for and participate in meetings with consultants and contractors working on other parts of the project that may affect or be affected by ENGINEER's services or resulting construction.
      iv) Prepare and submit regular engineering services progress reports to CLIENT.
      v) Conduct ongoing management tasks, including maintaining communications, records and files pertaining to ENGINEER's services.
      vi) With respect to ENGINEER's services and other directly relevant parts of the project, prepare for and participate in periodic progress meetings with CLIENT; and
      vii) Prepare agendas prior to and minutes following meetings conducted by ENGINEER.
   b) Engineer will perform services as an experienced and qualified design professional. The standard of care for all professional engineering and related services performed or furnished by Engineer under this

proposal will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality.

c) Engineer may retain subconsultants as Engineer deems necessary to assist in the performance or furnishing of the services, subject to reasonable and timely objections by District.

2. Preliminary Design Phase

a) Upon authorization by CLIENT, ENGINEER will:

i) Review and assess available, relevant project information and data, including pertinent reports or studies and related instructions from CLIENT.

(1) Based on review and assessment of available information and data, advise CLIENT of any need for CLIENT to obtain, furnish, or otherwise make available to ENGINEER additional information.

ii) Visit the site as needed to perform the Preliminary Design Phase.

iii) Relative to design survey and mapping:

(1) When surveys, topographic mapping, utility documentation, etc. are to be provided by CLIENT, coordinate with CLIENT's utility engineer, utility consultant, or land surveyor for the necessary surveys, mapping, and documentation required for ENGINEER's design purposes.

(2) When surveys, topographic mapping, utility documentation, etc. are to be provided by ENGINEER, perform such services as a supplemental Preliminary Design Phase task as described in this Scope of Services.

iv) Relative to above-ground utilities:

(1) Review above-ground utilities information obtained from others and from observations at the site.

(2) Make recommendations to CLIENT regarding any further identification, investigation, or mapping of above-ground utilities at or adjacent to the site and necessary for ENGINEER's design purposes.

v) Relative to underground facilities:

(1) Review underground facilities data furnished by CLIENT or others and advise CLIENT on the need to further identify, investigate, or map underground facilities at or adjacent to the site.

(a) In CLIENT's behalf, and with CLIENT's assistance, reach out to underground facility owners which evidently have underground facilities at or adjacent to the site for information on the vertical and horizontal alignments and quality of such underground facilities.

(b) CLIENT acknowledges and accepts that the information received from underground facility owners may be incorrect, incomplete, outdated, or otherwise flawed, and that ENGINEER, bidders, and the contractor bear and accept no risks associated with or resulting from such flawed information.

(2) Support CLIENT's efforts to expose, investigate, or pothole underground facilities.

vi) Relative to mitigation of utilities conflicts:

(1) Identify potential conflicts between the project and above-ground utilities and underground facilities and identify the potential need for the relocation of existing above-ground utilities and underground facilities.

(2) Advise CLIENT regarding the need for resolution of such conflicts with utility and underground facilities owners and permit agencies, and support CLIENT in CLIENT's efforts to resolve such conflicts.

vii) Prepare a permit summary document that identifies CLIENT's permit duties, ENGINEER's permit duties, and the contractor's permit duties, and the schedule for permitting activities.

viii) Relative to preparing bidding/proposal documents and front-end construction contract documents:

(1) Review CLIENT's instructions regarding its policies for procurement of construction services, instructions regarding advertisements for bids, instructions to bidders, requests for proposals, etc.

(2) Review CLIENT's construction contract practices and requirements, insurance and bonding requirements, and other information necessary to prepare CLIENT's bidding/proposal documents and front-end construction contract documents.

(3) Obtain copies of CLIENT's standard bidding/proposal documents and front-end construction contract documents, and any other related documents or content for ENGINEER to include in drafts of the project-specific bidding/proposal documents and front-end construction contract documents.

(4) Consider the effects of the bidding/proposal documents and front-end construction contract documents on the project design, schedule and construction and address as needed in the Preliminary Design Phase deliverables.

ix) **Perform or provide the following supplemental Preliminary Design Phase tasks or deliverables:**

(1) Design Survey and Mapping

(a) Control Network

(i) Engineer will establish and set up to eight (8) semi-permanent control points which will be published with coordinates in the Utah South, State Plane Coordinate System.

(ii) Control points will be 5/8 rebar with durable red cap stamped "survey control".

(b) Design Survey

(i) Locate planimetric and topographic features including sidewalk, TBC, hardscape, edge of road, and other features along anticipated pipe alignments.

(ii) Locate visible or marked water meters and secondary water meters or valves.

(iii) Locate visible utilities along proposed water lines, including power poles, fire hydrant, culverts, manholes, and other utility markers.

(c) UAV Drone Mapping

(i) Provide LiDAR services for topographic survey for approximately 900 acres.

(ii) Provide high resolution imagery to be used in drawings.

(d) Right-of-Way Mapping

(i) Research existing subdivision plats and parcels along proposed alignments.

(ii) Reference UGRC GIS parcel information and UDOT plans.

(iii) Provide right-of-way line in CAD format to be used in drawings.

(e) House Sheets

(i) Engineer will work with LaVerkin City to provide individual documents for each affected parcel that will have an irrigation connection moved from the back of the lot to the front. It is assumed that there will be approximately 500 house sheets created

(1) House sheets will include parcel ID, ownership info and an aerial view of the property with existing culinary water meter identified.

(a) House sheet will provide instructions for property owner to identify desired location of irrigation connection along property line. Instructions shall include a deadline and guidance that if feedback is not provided prior to the deadline the new irrigation connection will be located next to the culinary water connection per the City's design standards.

(2) House sheets will be used to allow property owners to identify ideal location for new irrigation connections.

x) Prepare a Preliminary Design Phase report summarizing, as appropriate, the Preliminary Design Phase deliverables identified heretofore and ENGINEER's findings and recommendations for advancing the project to the Final Design Phase.

(1) The Preliminary Design Phase report will be in the format of a summary memorandum with attachments, or otherwise organized and assembled for ease and practicality of use.

(2) The Preliminary Design Phase report will consider the following matters to the extent applicable to the project:

(a) The project concept, intent, performance criteria, desired outcomes, CLIENT's design and construction standards, and CLIENT-directed improvements and facility elements.

(b) Site conditions and characterization as known at the time of, or to be determined during, the Preliminary Design Phase, including topography; subsurface information; constituents of concern or hazardous materials; cultural, historical, and archaeological resources at the site; wetlands information; and evaluations of flora and fauna that may be affected by the project.

(c) The time schedule for completion of the project and estimated schedule(s) for construction.

(d) Identification of major items of materials and equipment, rationale for selection with consideration of quality, suitability, pricing, sourcing, regulatory, and bidding issues affecting recommended selection.

(e) The impact of project strategies, technologies, and techniques, sustainable features, and enhanced resiliency selected by CLIENT for inclusion in the project.

(f) The impact of schedules and probable construction cost, including impact of multiple prime construction contracts, separate procurement of materials or equipment, and other alternate project delivery methods when necessary and authorized by CLIENT.

(g) Construction phase quality assurance and quality control needs affecting development of drawings and specifications and other final design and bidding phase documents.

(h) The effect of permits and authorizations by other entities and utility coordination needs.

xi) Prepare preliminary drawings representing roughly 30% design achievement.

xii) Prepare a preliminary opinion of probable construction cost for the project based on the information contained in the Preliminary Design Phase documents and based on information provided by CLIENT, assist CLIENT in tabulating the various cost categories which comprise the total project costs.

xiii) Furnish the Preliminary Design Phase report, preliminary drawings, preliminary opinion of probable construction cost, and any other Preliminary Design Phase deliverables to CLIENT, review the deliverables with CLIENT, and receive CLIENT's comments.

xiv) Revise the Preliminary Design Phase report, preliminary opinion of probable construction cost, preliminary drawings, and any other deliverables in response to CLIENT's comments, as appropriate, and submit revised deliverables to CLIENT.

b) ENGINEER's services under the Preliminary Design Phase will be considered complete on the date when ENGINEER has delivered to CLIENT the final Preliminary Design Phase deliverables, as revised.

3. <u>Final Design Phase</u>

a) After acceptance by CLIENT of the Preliminary Design Phase deliverables, issuance by CLIENT of any instructions for changes to the scope, extent, character, or design requirements of the project, and any changes to the Background Information, ENGINEER and CLIENT will discuss, resolve, and document any necessary revisions to ENGINEER's Scope of Services, compensation, and the time for completion of ENGINEER's services resulting from such instructions or changes.

b) Upon authorization from CLIENT, ENGINEER will prepare final drawings and specifications indicating the scope, extent, and character of the work to be performed and furnished by the contractor, in accordance with the Preliminary Design Phase deliverables.

c) As part of the preparation of the drawings and specifications, ENGINEER will prepare interim drafts for CLIENT's review and final drawings and specifications as follows:

i) First Final Design Phase draft of drawings, specifications, and preliminary opinion of probable construction cost, representing approximately 60% design achievement.

ii) Second Final Design Phase draft of drawings, specifications, and preliminary opinion of probable construction cost, addressing CLIENT's comments and including appropriate design advancement, representing approximately 90% design achievement.

iii) Final drawings and specifications (representing 100% design achievement) that address CLIENT's comments, deliver the design, are suitable for estimating and pricing by prospective contractors, and are ready for construction. Also, deliver a final opinion of probable construction cost.

d) Prepare bidding/proposal documents, draft front-end construction contract documents, and other related documents or content.

i) ENGINEER will furnish to CLIENT draft bidding/proposal documents and front-end construction contract documents. Following its review, CLIENT will transmit to ENGINEER one coordinated set of comments and revisions to the draft documents.

ii) Following receipt of CLIENT's comments and revisions, ENGINEER will prepare final bidding/proposal and front-end construction contract documents for CLIENT's use in issuing the project for public bid.

e) In preparing the specifications and bidding/proposal and front-end construction contract documents or other documents that are part of ENGINEER's Scope of Services, ENGINEER will obtain from CLIENT any relevant constraints such as requirements for use of domestic steel and iron, other domestic purchasing requirements, statutory restrictions on utilizing proprietary specifying methods, and similar considerations, and comply with or account for such constraints in drafting said documents.

f) Perform or furnish the following other Final Design Phase services:

i) Visit the site as needed to assist in preparing the final drawings and specifications.

ii) Identify and indicate in the construction contract documents the permits and approvals for which contractor will be responsible; in addition, indicate those permits initially obtained by CLIENT for which contractor will be a co-permittee, together with associated requirements.

iii) Advise CLIENT of recommended adjustments to the opinion of probable construction cost.

iv) Assist CLIENT in assembling known reports and drawings of site conditions and in identifying the technical data contained in such reports and drawings upon which bidders or other prospective contractors may rely.

v) Review the preliminary schedule for the construction phase and advise CLIENT when initial understanding of the construction contract times should be revised.

g) Furnish for review by CLIENT the final drawings and specifications, final bidding/proposal documents, final front-end construction contract documents, the final opinion of probable construction cost, and any other Final Design Phase deliverables, and review the deliverables with CLIENT.

h) Revise the Final Design Phase deliverables in response to CLIENT's comments, as appropriate, and submit revised deliverables.

i) ENGINEER's services under the Final Design Phase will be considered complete on the date when ENGINEER has delivered to CLIENT the final drawings and specifications, final bidding/proposal documents, final front-end construction contract documents, final opinion of probable construction cost, and any other Final Design Phase deliverables, as revised.

4. <u>Permitting Phase</u>

a) Concurrent with and following ENGINEER's provision of the Final Design Phase deliverables, ENGINEER will prepare and submit on CLIENT's behalf applications for permits from and approvals of authorities having jurisdiction over the construction or operation of the project, including the following tasks:

i) Update the permit summary document created in the Preliminary Design Phase to include Final Design detail.

ii) Prepare technical criteria, written descriptions, and design data for the permitting applications, where required.

iii) Prepare and file the following permit applications, with required supporting documentation, for permits from or approvals of authorities having jurisdiction:

(1) LaVerkin City Joint Utility Committee (JUC)

iv) Relative to permit applications filed, receive comments from authorities having jurisdiction and evaluate such authorities' comments, requirements and requested revisions, if any.

(1) Confer with CLIENT regarding required revisions, if any, to the application(s) or supporting documents, and make appropriate revisions to the application(s) and supporting documents such as technical criteria, written descriptions, design data, bidding/proposal documents, front-end construction contract documents, drawings or specifications as required by authorities having jurisdiction over the construction or operation of the project.

(2) Communicate with authorities having jurisdiction to understand the basis for comments and required revisions and to advocate for permitting or approval of the project.

v) File on CLIENT's behalf revised applications and supporting documents required by authorities having jurisdiction.

b) CLIENT acknowledges that:
   i) ENGINEER does not guarantee issuance of any required permit or approval.
   ii) Permitting processes are inherently subjective; multiple submittal iterations may be required to achieve permitted or approved status.

c) Fees charged by authorities having jurisdiction for such permits or approvals are the responsibility of CLIENT and will be paid directly by CLIENT or, if paid by ENGINEER, will be reimbursed by CLIENT.

5. Bidding/Proposal Phase

a) Performance by ENGINEER of all or a portion of the following tasks depends on CLIENT's role and involvement in the Bidding/Proposal Phase work. This project assumes **ENGINEER** will primarily lead and perform the work of the Bidding/Proposal Phase, with **CLIENT** acting in a secondary or supporting role.

b) After acceptance by CLIENT of the Final Design Phase deliverables and after having received the necessary permits or assurances thereof, upon authorization by CLIENT to proceed, and to the extent required by ENGINEER's primary or secondary role in the Bidding/Proposal Phase of the work, ENGINEER will:
   i) Assist CLIENT in advertising for and obtaining bids or proposals for the work, including the following:
      (1) Assist CLIENT in issuing assembled bidding/proposal documents and proposed construction contract documents to prospective contractors.
      (2) If applicable, maintain a record of prospective contractors to which documents have been issued.
      (3) Conduct pre-bid conferences, if any.
      (4) Receive and process contractor deposits or charges, if any, for the issued documents.
   ii) Prepare and issue addenda as appropriate to clarify, correct, or change the issued documents.
   iii) Evaluate and determine the acceptability of "or equals" and substitute materials and equipment proposed by prospective contractors, provided that such proposals are allowed by the bidding/proposal documents.
   iv) Conduct the bid opening, prepare bid tabulation sheets, and assist CLIENT in evaluating bids or proposals, assembling final construction contracts for the work for execution by CLIENT and the contractor, and in preparing notices of award to be issued by CLIENT for such contracts.
      (1) Provide information or assistance needed by CLIENT during any review of bids, proposals, or negotiations with prospective contractors.
      (2) Consult with CLIENT as to the qualifications of prospective contractors, subcontractors, suppliers, and other individuals and entities proposed by prospective contractors.
      (3) If CLIENT engages in negotiations with bidders or proposers, assist CLIENT with respect to technical and engineering issues that arise during the negotiations.
   v) **Perform or provide the following supplemental Bidding/Proposal Phase tasks or deliverables:**
      (1) Prepare conformed construction contract documents that incorporate and integrate the content of addenda and any amendments negotiated by CLIENT and the contractor.

c) The Bidding/Proposal Phase will be considered complete upon award of construction contracts for the work and commencement of the Construction Phase, or upon cessation of negotiations with prospective contractors.

6. Construction Phase

a) After completion of the Final Design Phase and concurrent with the Bidding/Proposal Phase, and after issuance by CLIENT of any instructions for changes in the scope, extent, character, design, schedule, number of prime construction contracts, or other construction requirements of the project during the Construction Phase, ENGINEER and CLIENT will discuss, resolve, and document any necessary revisions to ENGINEER's Scope of Services, compensation, or the time for completion resulting from such modifications or changes to the project.

b) Performance by ENGINEER of all or a portion of the following Construction Phase services depends on CLIENT's role and involvement in the Construction Phase work and the degree to which CLIENT assigns services to be performed by ENGINEER.

i) This Work Release assumes ENGINEER will perform Construction Phase services in a primary role as described hereafter

c) Upon successful completion of the Bidding/Proposal Phase, and upon authorization from CLIENT, ENGINEER will, if serving in a primary role, or may, if serving in a supporting role and as directed by CLIENT, provide the following services:

i) Designate a project engineer to serve as ENGINEER's primary representative to CLIENT and to lead ENGINEER's services as an experienced and qualified design professional.

ii) Consult with CLIENT and act as CLIENT's representative as provided in this Work Release and the construction contract. The extent and limitations of the duties, responsibilities, and authority of ENGINEER shall be as assigned in the construction general conditions. Except as otherwise provided in the construction contract, CLIENT's communications to the contractor will be issued through ENGINEER.

iii) Receive, review, and, subject to the criteria of the construction contract, determine the acceptability of schedules that contractor is required to submit to ENGINEER, and advise the contractor in writing of ENGINEER's comments or acceptance of schedules. Schedules will be acceptable to ENGINEER as to form and substance as follows:

(1) Progress Schedule: If it provides an orderly progression of the work to completion within the contract times. Such acceptance will not impose on ENGINEER responsibility for the progress schedule, for sequencing, scheduling, or progress of the work, nor interfere with or relieve contractor from contractor's full responsibility therefore.

(2) Schedule of Submittals: if it provides a workable arrangement for reviewing and processing the required submittals.

(3) Schedule of Values: if it provides a reasonable allocation of the contract price to the component parts of the work.

iv) Assist CLIENT in the selection of independent testing laboratories, where required, to perform required testing services.

v) Provide CLIENT with copies of technical information and supporting data previously obtained or developed by ENGINEER for CLIENT's use, or for CLIENT to provide to contractor, in obtaining required permits and licenses delegated to the contractor by CLIENT.

vi) Conduct a pre-construction conference prior to commencement of work at the site; prepare and distribute an agenda for the conference and prepare and distribute minutes of such conference.

vii) Relative to observations of the contractor's work while it is in progress:

(1) Make visits to the site at intervals appropriate to the various stages of the work, as ENGINEER deems necessary, to observe as an experienced and qualified design professional, the progress of the contractor's executed work. Such visits and observations by ENGINEER, including its construction observer, if any, are not intended to be exhaustive or to extend to every aspect of the work or to involve detailed inspections of the work beyond the responsibilities specifically assigned to ENGINEER in this Work Release and the construction contract documents, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the work based on ENGINEER's exercise of professional judgment, as assisted by its construction observer, if any. Based on information obtained during such visits and observations, ENGINEER will endeavor to ascertain in general if the work is proceeding in accordance with the construction contract documents.

viii) Provide the services of a part-time construction observer at the site to provide more extensive observation of the contractor's work. The duties, responsibilities, and authority of the construction observer are as set forth below:

(1) General duties and limitations are as follows:

(a) The construction observer's primary role is to observe the progress and quality of the work, act as ENGINEER's representative at the site, and act as directed by and under the supervision of the project engineer.

(b) The construction observer will provide part-time representation at the site, unless otherwise directed by the project engineer in coordination with CLIENT.

(c) The construction observer's dealings in matters pertaining to the work in general will be with the contractor. The construction observer's dealings with subcontractors will only be through or with the knowledge and approval of the contractor. The construction observer will generally communicate with CLIENT only with the knowledge of and under the direction of the project engineer.

(d) Subject to the scope of the construction observer's observations of the work, ENGINEER will endeavor to identify defects and deficiencies in the work. However, ENGINEER shall not, as a result of the construction observer's observations of the work, supervise, direct, inspect, or have control over the work, nor shall ENGINEER (including the construction observer) have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any constructor, for security or safety at the site, for safety precautions and programs incident to the work or any constructor's work in progress, for the coordination of the constructors' work or schedules, or for any failure of any constructor to comply with laws and regulations applicable to the performing and furnishing of its work. ENGINEER (including the construction observer) neither guarantees the performance of any constructor nor assumes responsibility for any constructor's failure to furnish and perform the work, or any portion of the work, in accordance with the construction contract documents.

(2) Duties and responsibilities of the construction observer include:

(a) Review the progress schedule, schedule of shop drawing and sample submittals, schedule of values, and other schedules prepared by the contractor and consult with the project engineer concerning acceptability of such schedules.

(b) Attend meetings with the contractor, such as preconstruction conferences, progress meetings, job conferences, and other project-related meetings (not including the contractor's safety meetings).

(c) Comply with site safety programs, as they apply to the construction observer, and if required to do so by such safety programs, receive safety training specifically related to construction observer's own personal safety while at the site.

(d) Relative to providing liaison services:

(i) Assisting the project engineer, serve as ENGINEER's liaison with the contractor.

(ii) Working principally through the contractor's authorized representative or designee, assist in providing information regarding the provisions and intent of the construction contract documents.

(iii) Assist the project engineer in serving as CLIENT 's liaison with the contractor when the contractor's operations affect CLIENT's on-site operations.

(iv) Assist in obtaining from CLIENT additional details or information, when required for proper execution of the work.

(e) Receive from the contractor submittal of any matters in question concerning the requirements of the construction contract documents (sometimes referred to as requests for information or interpretation, RFIs), or relating to the acceptability of the work under the construction contract documents. Report to the project engineer regarding such RFIs. Report to the project engineer when clarifications and interpretations of the construction contract documents are needed, whether as the result of a contractor RFI or otherwise. Transmit the project engineer's clarifications, interpretations, and decisions to the contractor.

(f) Relative to shop drawings, samples, and other submittals:

(i) Receive samples that are furnished at the site by the contractor.

(ii) Receive contractor-approved shop drawings.
(iii) Receive other submittals from the contractor.
(iv) Record date of receipt of samples, contractor-approved shop drawings, and other submittals.
(v) Notify the project engineer of availability of samples for examination, and forward contractor-approved shop drawings and other submittals to the project engineer. When appropriate recommend distribution of submittal to specified subconsultants.
(vi) Advise the project engineer and the contractor of the commencement of any portion of the work requiring a shop drawing or sample submittal, if the construction observer believes that the submittal has not been received from the contractor or has not been approved by the contractor or the project engineer.

(g) Consider and evaluate the contractor's suggestions for modifications to the drawings or specifications, and report such suggestions, together with construction observer's recommendations, if any, to the project engineer. Transmit the project engineer's response (if any) to such suggestions to the contractor.

(h) Relative to review of work:
(i) Report to the project engineer whenever the construction observer believes that any part of the work is defective under the terms and standards set forth in the construction contract documents and provide recommendations as to whether such work should be corrected, removed, and replaced, or accepted as provided in the construction contract documents.
(ii) Inform the project engineer of any work that construction observer believes is not defective under the terms and standards set forth in the construction contract documents but is nonetheless not compatible with the design concept of the completed project as a functioning whole and provide recommendations to the project engineer for addressing such work.
(iii) Advise the project engineer of that part of the work that the construction observer believes should be uncovered for observation, or requires special testing, inspection, or approval.

(i) Relative to inspections, tests, and system start-ups:
(i) Consult with the project engineer in advance of scheduled inspections, tests, and systems start-ups.
(ii) Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate CLIENT's personnel, and that the contractor maintains adequate records thereof.
(iii) Observe, record, and report to the project engineer appropriate details relative to the test procedures and systems start-ups.
(iv) Observe whether the contractor has arranged for inspections required by laws and regulations, including but not limited to those to be performed by public or other agencies having jurisdiction over the work.
(v) Accompany visiting inspectors representing public or other agencies having jurisdiction over the work, record the results of these inspections, and report to the project engineer.
(vi) Nothing in this Work Release will be construed to require construction observer to conduct inspections.

(j) Relative to records:
(i) Maintain at the site orderly files for correspondence, reports of job conferences, copies of construction contract documents including change proposals, change orders, field orders, work change directives, addenda, additional drawings issued subsequent to the execution of the construction contract, RFIs, the project engineer's clarifications and interpretations of the construction contract documents, progress

reports, approved shop drawing and sample submittals, and other project-related documents.

(ii) Prepare regular reports or keep a diary or log book recording the contractor's hours on the site, subcontractors present at the site, weather conditions, data relative to questions of change proposals, change orders, field orders, work change directives, changed conditions, site visitors, deliveries of equipment or materials, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures, and send copies to the project engineer.

(iii) Maintain records for use in preparing project documentation.

(iv) Upon completion of the work, furnish an original set of construction observer project documentation to the project engineer.

(k) Relative to Reports:

(i) Furnish periodic reports of progress of the work and of the contractor's compliance with the progress schedule and schedule of shop drawing and sample submittals.

(ii) Draft responses to or make recommendations on change proposals, change orders, work change directives, and field orders. Obtain backup material from the contractor.

(iii) Furnish to the project engineer and CLIENT copies of inspection, test, and system start-up reports.

(iv) Inform appropriate parties of the occurrence of any site accidents, emergencies, natural catastrophes endangering the work, possible force majeure or delay events, damage to property by fire or other causes, or the discovery of any potential differing site condition, constituent of concern, or hazardous material.

(l) Review applications for payment with the contractor for compliance with the established procedure for their submission and forward with recommendations to the project engineer, noting particularly the relationship of the payment requested to the schedule of values, work completed, and materials and equipment delivered at the site but not incorporated in the work.

(m) During the work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the contract documents to be assembled and furnished by the contractor are applicable to the items installed and in accordance with the contract documents, and have these documents delivered to the project engineer for review and forwarding to CLIENT prior to payment for that part of the work.

(n) Participate in ENGINEER's visits to the site regarding substantial completion, assist in the determination of substantial completion, and prior to the issuance of a certificate of substantial completion submit a punch list of observed items requiring completion or correction.

(o) Participate in ENGINEER's visit to the site in the company of CLIENT and the contractor, to determine completion of the work, and prepare a final punch list of items to be completed or corrected by the contractor.

(p) Observe whether items on the final punch list have been completed or corrected and make recommendations to the project engineer concerning acceptance and issuance of the notice of acceptability of the work.

(q) ENGINEER's construction observer will not:

(i) Authorize any deviation from the construction contract documents or substitution of materials or equipment (including "or-equal" items).

(ii) Exceed limitations of ENGINEER's authority as set forth in this Work Release.

(iii) Undertake any of the responsibilities of the contractor, subcontractors, or suppliers, or any constructor.

(iv) Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences, or procedures of the work, by the contractor or any other constructor.

(v) Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of CLIENT or the contractor.

(vi) Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by the project engineer.

(vii) Accept shop drawing or sample submittals from anyone other than the contractor.

(viii) Authorize CLIENT to occupy the project in whole or in part.

ix) If, based on ENGINEER's observations or as indicated in documentation available to ENGINEER, ENGINEER believes that any part of the work is defective under the terms and standards set forth in the construction contract documents, ENGINEER will issue written notice to contractor (with copy to CLIENT) of such defective work. Such notice will communicate the scope, extent (to ENGINEER's understanding) of defect, and associated provisions of the construction contract documents.

(1) Provide recommendations to CLIENT regarding whether the contractor should correct such work or remove and replace such work, or whether CLIENT should consider accepting the defective work in accordance with the provisions of the construction contract documents. ENGINEER will give notice to the contractor regarding whether the defective work should be repaired, replaced, or will be accepted by CLIENT.

(2) However, ENGINEER's authority to provide this information to CLIENT or ENGINEER's decision to exercise or not exercise such authority will not give rise to a duty or responsibility of ENGINEER to contractors, subcontractors, material and equipment suppliers, their agents or employees, or any other person(s) or entities performing any of the work, including but not limited to any duty or responsibility for the contractors' or subcontractors' safety precautions and programs incident to the work.

x) If ENGINEER has express knowledge that a specific part of the work that is not defective under the terms and standards set forth in the construction contract documents is nonetheless not compatible with the design concept of the completed project as a functioning whole, then inform CLIENT of such incompatibility and provide recommendations for addressing such work.

xi) Accept from the contractor and CLIENT submittal of matters in question concerning the requirements of the construction contract documents (sometimes referred to as requests for information or interpretation, or RFIs), or relating to the acceptability of the work under the construction contract documents. Render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the construction contract documents.

(1) If a submitted matter in question concerns ENGINEER's performance of its duties and obligations, or terms and conditions of the construction contract documents that do not involve (a) the performance or acceptability of the work under the construction contract documents, (b) the design (as set forth in the drawings, specifications, or otherwise), or (c) other engineering or technical matters, then ENGINEER will promptly give written notice to CLIENT and the contractor that ENGINEER will not provide a decision or interpretation.

xii) Subject to any limitations in the construction contract documents, ENGINEER may prepare and issue field orders requiring minor changes in the work.

xiii) Relative to change orders, work change directives, change proposals and claims:

(1) Recommend change orders and work change directives to CLIENT, as appropriate, and prepare change orders and work change directives as required.

(2) Review each duly submitted change proposal from the contractor and either deny the change proposal in whole, approve it in whole, or deny it in part and approve it in part. Such actions will be in writing, with a copy provided to CLIENT and the contractor.

(3) Provide information or data to CLIENT regarding engineering or technical matters pertaining to claims.

xiv) Respond to any notice from the contractor of differing site conditions, including conditions relating to underground facilities such as utilities, and hazardous environmental conditions. Conduct reviews and prepare findings, conclusions, and recommendations for CLIENT's use subject to limitations of ENGINEER's obligations under this Work Release.

xv) Review and accept or take other appropriate action with respect to contractor submittals, but only to determine if the items covered by the submittals will, after installation or incorporation in the work, comply with the design concept as a functioning whole and requirements of the construction contract documents. Such reviews and approvals or other action will not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions and programs incident thereto.

xvi) Evaluate and determine the acceptability of substitute or "or-equal" materials and equipment proposed by the contractor.

xvii) Relative to inspections and tests:

(1) Receive and review certificates of inspections, tests, and approvals required by laws and regulations, or the construction contract documents. ENGINEER's review of such certificates will be for the purpose of determining whether the results certified indicate compliance with the construction contract documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the construction contract documents. ENGINEER shall be entitled to rely on the results of such inspections and tests.

(2) Reply to contractor requests for written concurrence that specific portions of the work that are to be inspected, tested, or approved may be covered.

(3) Issue written requests to the contractor that specific portions of the work remain uncovered.

(4) As deemed reasonably necessary, request that the contractor uncover work that is to be inspected, tested, or approved.

(5) Pursuant to the terms of the construction contract, require additional inspections or testing of the work, whether the work is fabricated, installed, or completed.

xviii) Based on ENGINEER's observations as an experienced and qualified design professional and on review of applications for payment and accompanying supporting documentation:

(1) Determine the amounts that ENGINEER recommends the contractor be paid, including reductions in payment based on the provisions for reductions stated in the construction contract.

(a) Such recommendations of payment will be in writing and will constitute ENGINEER's representation to CLIENT, based on such observations and review, that, within the limits of ENGINEER's knowledge, information and belief, the contractor's work has progressed to the point indicated, the work is generally in accordance with the construction contract documents, and the conditions precedent to the contractor's being entitled to such payment appear to have been fulfilled in so far as it is ENGINEER's responsibility to observe the work.

(b) In the case of unit price work, ENGINEER's recommendations of payment will include final determinations of quantities and classifications of the work (subject to any subsequent adjustments allowed by the construction contract documents).

(2) By recommending payment, ENGINEER shall not thereby be deemed to have represented that observations made by ENGINEER to check the quality or quantity of the contractor's work as it is performed and furnished have been exhaustive, extended to every aspect of the contractor's work in progress, or involved detailed inspections of the work beyond the responsibilities specifically assigned to ENGINEER in this Work Release. Neither ENGINEER's review of the contractor's work for the purposes of recommending payments nor ENGINEER's recommendation of any payment including final payment will impose on ENGINEER responsibility to supervise, direct, or control the work, or for the means, methods, techniques, sequences, or procedures of construction or safety precautions or programs incident thereto, or the contractor's compliance with laws and regulations applicable to the contractor's furnishing and performing the work.

(3) ENGINEER's recommendation for payment will also not impose responsibility on ENGINEER to make any examination to ascertain how or for what purposes the contractor has used the money paid to the contractor by CLIENT; to determine that title to any portion of the work,

including materials or equipment, has passed to CLIENT free and clear of any liens, claims, security interests, or encumbrances; or that there may not be other matters at issue between CLIENT and the contractor that might affect the amount that should be paid.

xix) Receive from the contractor, review, and transmit to CLIENT maintenance and operating instructions, schedules, guarantees, bonds, certificates, or other evidence of insurance required by the construction contract documents, certificates of inspection, tests and approvals, and shop drawings, samples, etc.

xx) Receive from the contractor, review, and transmit to CLIENT the annotated record documents which are to be assembled by the contractor in accordance with the construction contract documents to obtain final payment. The extent of ENGINEER's review of record documents will be to check that the contractor has submitted a complete set of those documents that the contractor is required to submit.

xxi) After notice from the contractor that the contractor considers the entire work ready for its intended use, visit the site in company with CLIENT and the contractor to review the work and determine the status of completion. Follow the procedures in the construction contract regarding the preliminary certificate of substantial completion, punch list of items to be completed, CLIENT's objections, notice to the contractor, and issuance of a final certificate of substantial completion. Assist CLIENT regarding any remaining engineering or technical matters affecting CLIENT's use or occupancy of the work following substantial completion.

xxii) After notice from the contractor that the work is complete:

(1) Visit the Site with CLIENT and the contractor to determine if the work is in fact complete and acceptable.

(2) Notify the contractor of any part of the work that is found during the visit to be incomplete or defective, and subsequently confirm that the contractor has corrected any such deficiencies.

(3) Follow the procedures in the construction contract regarding review and response to the contractor's application for final payment and accompanying documentation.

(4) When ENGINEER is satisfied that the work is complete and acceptable, provide a notice to CLIENT and the contractor a notice of acceptability of work stating that the work is acceptable within the limits of ENGINEER's knowledge, information, and belief, and based on the extent of the services provided by ENGINEER under this Work Release.

d) Engineer will render decisions regarding the requirements of the construction contract documents, and judge the acceptability of the work, pursuant to the specific procedures set forth in the construction contract for initial interpretations, change proposals, and acceptance of the work. In rendering such decisions and judgments, Engineer will not show partiality to District or the contractor and will not be liable to District, the contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

e) The Construction Phase will commence with the execution of the first construction contract for the project or any part thereof and will terminate upon written recommendation by ENGINEER for final payment to the contractor.

f) If the duties, responsibilities, or authority of ENGINEER in the construction contract, or other terms of the construction contract having a direct bearing on ENGINEER are modified, or if CLIENT requires ENGINEER's services for construction that extends longer than the anticipated construction contract times, then CLIENT shall compensate ENGINEER for any related increases in the cost to provide Construction Phase services, pursuant to the provisions for compensating Additional Services.

g) ENGINEER shall not be required to furnish or perform services contrary to ENGINEER's responsibilities as a licensed professional.

7. <u>Post-Construction Phase</u>

a) Upon written authorization from CLIENT during the Post-Construction Phase, ENGINEER will:

i) Together with CLIENT, visit the project to observe any apparent defects in the work, make recommendations as to replacement or correction of defective work, if any, or the need to repair of any damage to the site or adjacent areas, and assist CLIENT in consultations and discussions with the contractor concerning correction of any such defective work and any needed repairs.

ii) Together with CLIENT, visit the project within one month before the end of the construction contract's correction period to ascertain whether any portion of the work or the repair of any damage to the site or adjacent areas is defective and therefore subject to correction by the contractor.

iii) **Perform or provide the following supplemental Post-Construction Phase tasks or deliverables:**

(1) **Prepare and furnish to CLIENT contract record drawings. Drawings will be based on annotated drawings from the contractor, RFIs, field orders, change orders, observations from Engineer's construction observer, and site visits made by Engineer.**

b) The Post-Construction Phase services may commence during the Construction Phase and, if not otherwise modified by CLIENT and ENGINEER, will terminate 12 months after the commencement of the construction contract's correction period.

3. ADDITIONAL SERVICES

CLIENT may authorize ENGINEER to furnish or obtain from others Additional Services of the types listed below, which, unless expressly stated, are not included in the Scope of Services detailed above. If such Additional Services are performed by ENGINEER, CLIENT shall compensate ENGINEER under the hourly rate basis of compensation according to the attached fee schedule unless agreed to by CLIENT and ENGINEER, as follows:

1. <u>Additional Services Not Requiring CLIENT's Written Authorization</u>

a) ENGINEER will advise CLIENT that ENGINEER is commencing to perform or furnish Additional Services of the types listed below. ENGINEER shall cease performing or furnishing such Additional Services upon receipt of written notice to cease from CLIENT.

i) Substantive design and other technical services in connection with work change directives, change proposals, and change orders to reflect changes requested by CLIENT.

ii) Services essential to the orderly progress of the Bidding/Proposal and Construction Phases and not wholly quantifiable prior to those phases or otherwise dependent on the actions of prospective individual bidders or contractors, including:

(1) Revising drawings and specifications occasioned by the acceptance of substitute materials or equipment other than "or equal" items.

(2) Services after award of the construction contract in evaluating the acceptability of a proposed "or equal" or substitution which is found to be inappropriate for the project.

(3) Evaluation of an excessive number of proposed "or equals" or substitutions, whether proposed before or after award of the construction contract.

(4) Providing to the contractor or CLIENT additional or new information not previously prepared or developed by ENGINEER for their use in applying for or obtaining permits and licenses, in responding to agency comments on such applications, or in the administration of any such permits or licenses.

iii) Services resulting from significant delays, changes, or price increases occurring as a direct or indirect result of materials, equipment, or energy shortages.

iv) Additional or extended services arising from (a) the presence at the site of any constituent of concern, hazardous materials, or items of historical or cultural significance, (b) emergencies or acts of God endangering the work, (c) damage to the work by fire or other causes during construction, (d) a significant amount of defective, neglected, or delayed work, (e) acceleration of the progress schedule involving services beyond normal working hours, or (f) default by the contractor.

v) Implementing coordination of ENGINEER's services with other parts of the project that are not planned or designed by ENGINEER, unless CLIENT furnished to ENGINEER substantive information about such other parts of the project prior to the parties' entry into this Work Release as identified in the Background Information.

vi) Services in connection with any partial utilization of the work by CLIENT prior to substantial completion.

vii) Evaluating unreasonable or frivolous requests for interpretation or information (RFIs), change proposals, or other demands from the contractor or others in connection with the work, or an excessive number of RFIs, change proposals, or demands.

viii) Reviewing a shop drawing or other contractor submittal more than three times, due to repeated inadequate submissions by the contractor.

ix) While at the site, compliance by ENGINEER and its staff with those terms of CLIENT's or the contractor's safety program provided to ENGINEER after the effective date of this Work Release that exceed those normally required of engineering personnel by federal, state, or local safety authorities for similar construction sites.

x) To the extent the project is subject to laws and regulations governing public or government records disclosure or non-disclosure, compliance with such laws and regulations.

2. <u>Additional Services Requiring CLIENT's Written Authorization</u>

a) If authorized in writing by CLIENT, ENGINEER will perform or furnish Additional Services of the types listed below. ENGINEER shall cease performing or furnishing such Additional Services upon receipt of written notice to cease from CLIENT.

i) Preparation of special and customized reporting, invoicing, and related support documentation in addition to that identified to be provided in the Scope of Services.

ii) Preparation of applications and supporting documents (in addition to those furnished under the Scope of Services) for private or governmental grants, loans, or advances in connection with the project.

iii) Preparation or review of environmental assessments and impact statements and assistance to or on behalf of CLIENT in obtaining approvals of authorities having jurisdiction over the anticipated environmental impact of the project.

iv) Services to make measured drawings of existing conditions or facilities, to conduct tests or investigations of existing conditions or facilities, or to verify the accuracy of drawings or other information furnished by CLIENT or others.

v) Services resulting from significant changes in the scope, extent, or character of the portions of the project designed or specified by ENGINEER, or the project's design requirements, including, but not limited to, changes in size, complexity, CLIENT's schedule, character of construction, or method of financing, and revising previously accepted studies, reports, drawings, specifications, or construction contract documents when such revisions are required by changes in laws and regulations enacted subsequent to the effective date of this Work Release or are due to any other causes beyond ENGINEER's control.

vi) Services required due to CLIENT's providing incomplete or incorrect project information to ENGINEER.

vii) Providing renderings or models for CLIENT's use, including development, management, and other services in support of building information modeling or civil integrated management.

viii) Undertaking investigations and studies including, but not limited to:

(1) All-hazards risk assessments and other studies to evaluate the feasibility of enhancing the resiliency of the design.

(2) Detailed consideration of operations, maintenance, and overhead expenses.

(3) Feasibility studies (such as those that include projections of output capacity, utility project rates, project market demand, or project revenues) and cash flow analyses, provided that such services are based on the engineering and technical aspects of the project and do not include rendering advice regarding municipal financial products or the issuance of municipal securities.

(4) Building, property, or similar appraisals.

(5) Providing services necessary to assist CLIENT in obtaining licenses for proprietary systems or processes.

(6) Detailed quantity surveys of materials, equipment, and labor.

(7) Audits or inventories required in connection with construction performed or furnished by CLIENT.

ix) Furnishing the services of ENGINEER's subconsultants for tasks other than those identified in the Scope of Services.
x) Services attributable to more prime construction contracts than specified in the Background Information.
xi) Services to arrange for performance of construction services for CLIENT by contractors other than the principal prime contractor and administering CLIENT's contract for such services.
xii) Preparing for, coordinating with, participating in, and responding to structured independent review processes, including, but not limited to, construction management, cost estimating, project peer review, value engineering, and constructability review requested by CLIENT.
xiii) Preparing additional bidding-related documents (or requests for proposals or other construction procurement documents), preparing pre-qualification procedures and documents, and participating in pre-qualifying prospective bidders, and preparing construction contract documents for alternate bids.
xiv) Assistance in connection with bid protests, rebidding, or renegotiating contracts for construction, materials, equipment, or services.
xv) Any services by ENGINEER in connection with CLIENT or ENGINEER providing a document to a requesting party not including CLIENT, ENGINEER, or the contractor.
xvi) Providing Construction Phase services beyond the original date for completion and readiness for final payment of the contractor, but only if such services increase the total quantity of services to be performed in the Construction Phase, rather than merely shifting performance of such services to a later date.
xvii) Conducting surveys, investigations, and field measurements to verify the accuracy of contract record drawing content obtained from the contractor, CLIENT, utility companies, and other sources.
xviii) Preparation of operation, maintenance, and staffing manuals, unless provided for in the Scope of Services.
xix) Assistance to CLIENT in developing systems and procedures for (a) control of the operation and maintenance of project equipment and systems, and (b) related recordkeeping.
xx) Preparing to serve or serving as a consultant or witness for, or producing documents for or on behalf of, CLIENT in any litigation, arbitration, mediation, lien, or bond claim, or other legal or administrative proceeding involving the project (but not including disputes between CLIENT and ENGINEER).
xxi) Overtime work requiring higher than regular rates.
xxii) Providing construction surveys and staking to enable the contractor to perform its work, unless otherwise identified in the Scope of Services.
xxiii) Providing any type of property surveys or related engineering services needed for the transfer of interests in real property, providing construction and property surveys to replace reference points or property monuments lost or destroyed during construction, and providing other special field surveys, unless otherwise identified in the Scope of Services.
xxiv) Extensive services required during any correction period, or with respect to monitoring the contractor's compliance with warranties and guarantees called for in the construction contract, except as identified in the Scope of Services.
xxv) Other additional services performed or furnished by ENGINEER not otherwise provided for or not otherwise identified in the Scope of Services in this Work Release.

4. CLIENT'S RESPONSIBILITIES

CLIENT agrees to perform, provide, or deliver the information, data, and services indicated below, together with all other information, data, and services necessary for delivery and completion of the project and not expressly included in the Scope of Services to be performed by ENGINEER.

1. CLIENT's General Responsibilities
   a) CLIENT will examine alternative solutions, studies, reports, sketches, drawings, specifications, proposals, and other documents presented by ENGINEER and render in writing timely decisions pertaining thereto.
   b) CLIENT will give prompt written notice to ENGINEER whenever CLIENT observes or otherwise becomes aware of:
      i) Any development that affects the scope or time of performance of ENGINEER's services.
      ii) The presence at the site of any constituent of concern or hazardous material.
   c) CLIENT will advise ENGINEER of the identity and scope of services of any independent consultants employed by CLIENT to perform or furnish services regarding the project, including, but not limited to, cost estimating, project peer review, value engineering, and constructability review.
   d) If CLIENT designates a construction manager, site representative, or any individual or entity other than, or in addition to, ENGINEER to represent CLIENT at the site, CLIENT will define the duties, responsibilities, and limitations of authority of such other party and the relation thereof to the duties, responsibilities, and authority of ENGINEER.
   e) CLIENT will attend and participate in the pre-bid conference, bid opening, pre-construction conferences, construction progress and other job-related meetings, and site visits to determine substantial completion and readiness of the completed work for final payment.
   f) CLIENT will primarily communicate with any of ENGINEER's subconsultants through ENGINEER and will promptly inform ENGINEER of the substance of any communications between CLIENT and ENGINEER's subconsultants and will refrain from directing the services of ENGINEER's subconsultants.
   g) CLIENT will provide existing utility potholing during preliminary design phase at critical crossing alignments and locations.
   h) CLIENT will authorize ENGINEER to provide Additional Services as required.
2. Project Information
   a) CLIENT will provide ENGINEER with CLIENT's budget for the project, including type and source of funding to be used, and will inform ENGINEER if the budget or funding sources change.
   b) Except where included in the Scope of Services to be performed by ENGINEER, CLIENT will provide ENGINEER with information and data needed by ENGINEER for the performance of the Scope of Services, including CLIENT's design objectives and constraints, space, capacity, and performance requirements, flexibility and expandability needs, design and construction standards, budgetary limitations, property descriptions, zoning, deed and other land use restrictions, surveys, topographic mapping and utility documentation, property, boundary, easement, right-of-way and other special surveys or data, including establishing relevant reference points, studies, investigations, tests and reports related to the site, environmental, historical or cultural information relevant to the site or project, and any other information and data required for the project.
   c) CLIENT will give instructions to ENGINEER regarding CLIENT's procurement of construction services (including instructions regarding advertisements for bids, instructions to bidders, and requests for proposals, as applicable) and CLIENT's construction contract practices and requirements.
   d) CLIENT will furnish to ENGINEER CLIENT's standard contract forms, general conditions, supplementary conditions, text, and related documents, insurance and bonding requirements, CLIENT's safety and security programs applicable to the contractor, diversity and other social responsibility requirements, binding and contract requirements of funding, financing or regulatory agencies, and any other information necessary for ENGINEER to assist CLIENT in preparing the bidding/proposal documents and front-end construction contract documents.
3. CLIENT-Furnished Services
   a) Except where included in the Scope of Services to be performed by ENGINEER, CLIENT will acquire or arrange for acquisition of the site(s) and any temporary or permanent rights of access, easements, or property rights needed for the project.
   b) Except where included in the Scope of Services to be performed by ENGINEER, CLIENT will provide, obtain, or arrange for all required reviews, approvals, consents, and permits from governmental authorities having jurisdiction, and such reviews, approvals, and consents from others as may be necessary for completion of each portion or phase of the project.

c) If there will be an advertisement soliciting bids for construction, CLIENT will place and pay for such advertisement.

d) Where required, CLIENT will provide all accounting, bond and financial advisory services, independent cost estimating, and insurance counseling services.

e) CLIENT will provide the services of an independent testing laboratory to perform all inspections, tests, and approvals of samples, materials, and equipment required by the construction contract documents (other than those required to be furnished or arranged by the contractor), or to evaluate the performance of materials, equipment, and facilities of CLIENT, prior to their incorporation into the work with appropriate professional interpretation thereof.

5. COMPENSATION

CLIENT shall compensate ENGINEER for ENGINEER's performance of the Scope of Services as hereunder described:

1. Table of Compensation

Phase/Task/Deliverable	Reference	Amount	Basis of Compensation	Notes
Preliminary Design Phase	2.2	$185,900	Lump Sum	
Design Survey and Mapping	2.2.a.ix.1	$124,000	Lump Sum	
Final Design Phase	2.3	$393,100	Lump Sum	
Permitting Phase	2.4	$3,700	Hourly Rates	
Bidding/Proposal Phase	2.5	$14,700	Hourly Rates	
Construction Phase	2.6	$476,200	Hourly Rates	
Post-Construction Phase	2.7	$12,900	Hourly Rates	
Additional Services	3.1, 3.2	$50,000	Hourly Rates	
Total	-	$1,260,500	-	-

2. Lump Sum Basis of Compensation
   a) CLIENT shall compensate ENGINEER for performance of the Scope of Services for the lump sum amounts identified by Phase/Task/Deliverable in the Table of Compensation.
   b) Lump sum fees include compensation for ENGINEER's services and services of ENGINEER's subconsultants, if any. Appropriate amounts have been incorporated in the lump sum amounts to account for labor costs, overhead, profit, and expenses.
   c) The portion of the lump sum amount billed for ENGINEER's services will be based upon ENGINEER's estimate of the percentage of the total lump sum Phase/Task/Deliverable services performed during the billing period.
3. Hourly Rates Basis of Compensation
   a) CLIENT shall compensate ENGINEER for performance of the Scope of Services for an amount equal to the hours charged to the hourly rate Phase/Task/Deliverables by ENGINEER's personnel multiplied by the hourly rates and fees for the appropriate labor code or reimbursable expense identified on the attached fee schedule.
   b) Compensation items and totals based in whole or in part on hourly rates are estimates for planning purposes.
   c) The hourly rates and fees charged by ENGINEER constitute complete compensation for ENGINEER's services, including labor costs, material expenses, overhead, and profit.
   d) ENGINEER may alter the distribution of compensation between individual hourly rate Phase/Task/Deliverables identified in the Table of Compensation to be consistent with services rendered, but compensation will not exceed the total estimated compensation amount unless approved by CLIENT.
4. Estimated Compensation Amounts
   a) ENGINEER's estimate of the amounts that will become payable for hourly rate Phase/Task/Deliverable items specified in the Table of Compensation are only estimates for planning purposes, are not binding

on the parties, and are not the minimum or maximum amounts payable to ENGINEER under this Work Release.

b) When estimated compensation amounts have been stated herein and it subsequently becomes apparent to ENGINEER that the total compensation amount thus estimated will be exceeded, ENGINEER will give CLIENT written notice thereof, allowing CLIENT to consider its options, including suspension or termination of ENGINEER's services for CLIENT's convenience. Upon notice, CLIENT and ENGINEER will promptly review the matter of services remaining to be performed and compensation for such services. CLIENT shall either exercise its right to suspend or terminate ENGINEER's services for CLIENT's convenience, agree to such compensation exceeding said estimated amount, or agree to a reduction in the remaining services to be rendered by ENGINEER, so that total compensation for such services will not exceed said estimated amount when such services are completed. If CLIENT decides not to suspend the ENGINEER's services during the negotiations and ENGINEER exceeds the estimated amount before CLIENT and ENGINEER have agreed to an increase in the compensation due ENGINEER or a reduction in the remaining services, then ENGINEER will be paid for all services rendered hereunder.

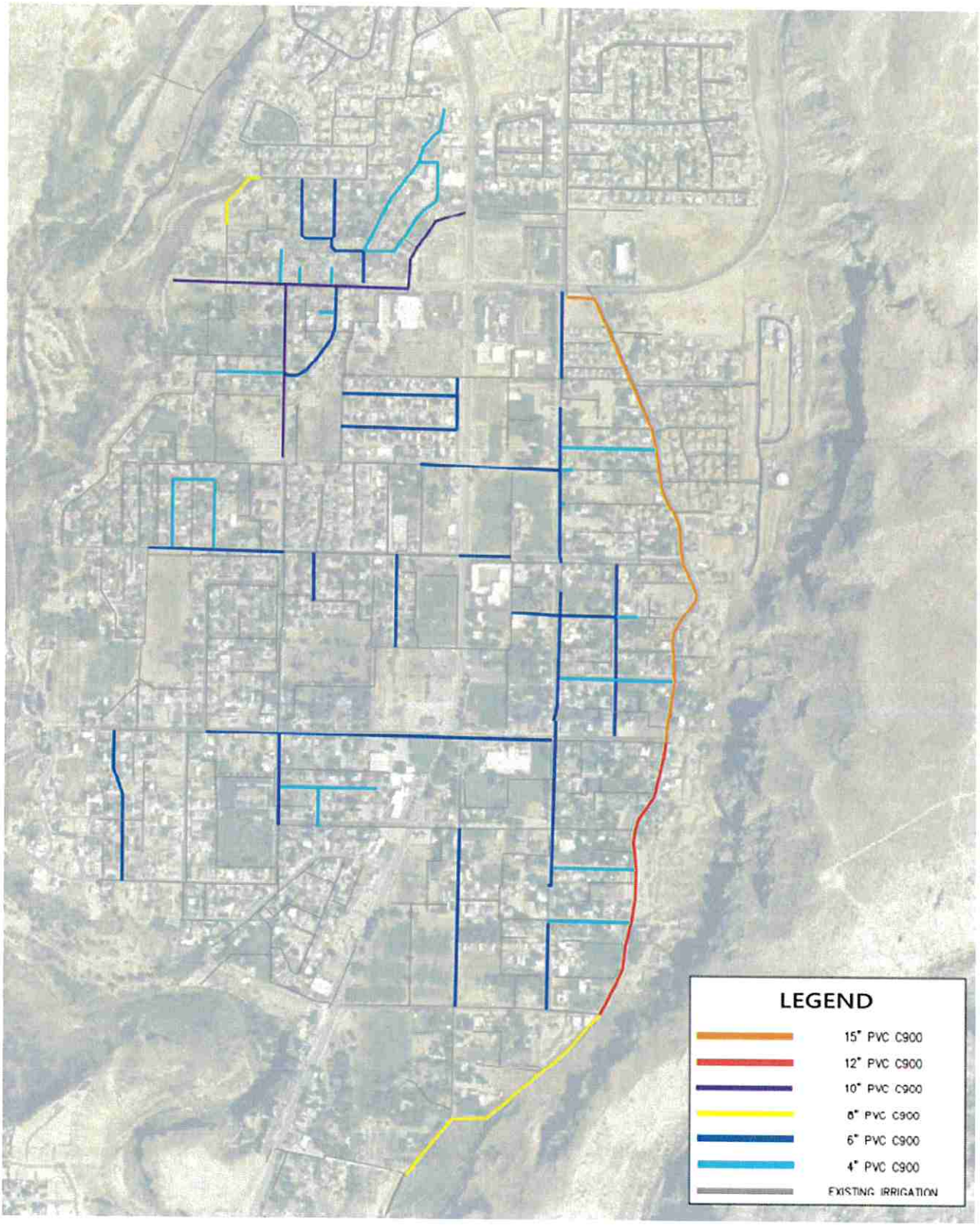
5. Billing Schedule

a) Invoices will be submitted no more than once monthly, unless otherwise agreed to by CLIENT and ENGINEER. Invoices are due and payable within thirty (30) calendar days of the presentation of ENGINEER's invoice for Services to CLIENT.

6. EXHIBITS

Attached hereto and incorporated into the assumptions, terms, conditions, promises and obligations of this Work Release are the following Exhibit(s): Preliminary Project Exhibit, Preliminary Opinions of Cost, Fee Schedule

PRELIMINARY PROJECT EXHIBIT



Engineer's Opinion of Probable Cost

LaVerkin City In-Town Replacements
LaVerkin City
Approximately 36000 LF Irrigation Pipe

7-Feb-25
PJA/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	1	LS	$ 450,000.00	$ 450,000.00
2	Traffic Control	1	LS	$ 144,000.00	$ 144,000.00
3	SWPPP Compliance & Erosion Control	1	LS	$ 108,000.00	$ 108,000.00
4	Dust Control & Watering	1	LS	$ 107,500.00	$ 107,500.00
5	Construction Staking	1	LS	$ 72,000.00	$ 72,000.00
6	Subsurface Investigation	160	HR	$ 350.00	$ 56,000.00
7	Clearing, Grubbing, & Demolition	1	LS	$ 395,000.00	$ 395,000.00
8	Restore Surface Improvements	1	LS	$ 358,000.00	$ 358,000.00
9	Compaction & Materials Testing	1	LS	$ 50,000.00	$ 50,000.00
10	Miscellaneous Connections, Fittings & Tie-Ins	1	LS	$ 394,000.00	$ 394,000.00
11	6" Purple PVC C900, Fittings, & Installation	20,000	LF	$ 70.00	$ 1,400,000.00
12	4" Purple PVC C900, Fittings, & Installation	10,500	LF	$ 50.00	$ 525,000.00
13	6" Gate Valve Assembly	82	EA	$ 2,500.00	$ 205,000.00
14	4" Gate Valve Assembly	32	EA	$ 1,500.00	$ 48,000.00
15	1" Setter, Idler, and Meter Barrel	510	EA	$ 2,250.00	$ 1,147,500.00
16	1" Service Lateral Pipe (Including Service Saddle & Corporation Stop)	13,400	LF	$ 40.00	$ 536,000.00
17	8" Untreated Base Course	181,800	SF	$ 1.50	$ 272,700.00
18	3" Bituminous Surface Course - Category II	181,800	SF	$ 4.50	$ 818,000.00
19	Boring & Jacking	300	LF	$ 800.00	$ 240,000.00
			SUBTOTAL		**$ 7,326,700.00**
			CONTINGENCY	20%	**$ 1,465,300.00**
			CONSTRUCTION TOTAL		**$ 8,792,000.00**
INCIDENTALS					
1	Funding & Administration Services	0.4%	EST	$ 44,000.00	$ 44,000.00
2	Bonding Attorney	0.4%	EST	$ 45,000.00	$ 45,000.00
3	Engineering Design Services	4.9%	LS	$ 492,000.00	$ 492,000.00
4	Bidding & Negotiating	0.2%	HR	$ 25,000.00	$ 25,000.00
5	Construction Administration & Observation Services	4.6%	HR	$ 466,000.00	$ 466,000.00
6	GIS Mapping	0.4%	EST	$ 36,000.00	$ 36,000.00
7	Loan Origination Fee	0.4%	EST	$ 44,000.00	$ 44,000.00
8	Miscellaneous Professional Services	1.1%	EST	$ 115,000.00	$ 115,000.00
9	Topographic & Property Survey	0.5%	EST	$ 52,800.00	$ 52,800.00
			SUBTOTAL		**$ 1,319,800.00**
			TOTAL PROJECT COST		**$ 10,111,800.00**

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs.

Engineer's Opinion of Probable Cost

LaVerkin City Irrigation Transmission Line Improvements
LaVerkin City & WCWCD

20-May-25
PJA/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	1	LS	$ 60,000.00	$ 60,000.00
2	Traffic Control	1	LS	$ 10,000.00	$ 10,000.00
3	Subsurface Investigation	20	HR	$ 225.00	$ 4,500.00
4	Compaction & Materials Testing	1	LS	$ 6,500.00	$ 6,500.00
5	SWPPP Compliance & Erosion Control	1	LS	$ 6,500.00	$ 6,500.00
6	Construction Staking	1	LS	$ 7,000.00	$ 7,000.00
7	Dust Control & Watering	1	LS	$ 10,000.00	$ 10,000.00
8	Restore Surface Improvements	1	LS	$ 25,000.00	$ 25,000.00
9	Miscellaneous Connections, Fittings & Tie-Ins	1	LS	$ 20,000.00	$ 20,000.00
10	10" PVC C900, Fittings, & Installation	4,050	LF	$ 96.00	$ 388,800.00
11	8" PVC C900, Fittings, & Installation	500	LF	$ 75.00	$ 37,500.00
12	Asphalt Removal	18,300	SF	$ 1.00	$ 18,300.00
13	10" Butterfly Valve Assembly	6	EA	$ 3,750.00	$ 22,500.00
14	8" Gate Valve Assembly	2	EA	$ 2,800.00	$ 5,600.00
15	1" Setter, Idler, and Meter Barrel	30	EA	$ 1,800.00	$ 54,000.00
16	1" Service Lateral Pipe (Including Service Saddle & Corporation Stop)	2,500	LF	$ 35.00	$ 87,500.00
17	3" Bituminous Surface Course - Category II	18,300	SF	$ 2.75	$ 50,325.00
			SUBTOTAL		$ 814,025.00
			CONTINGENCY	20%	$ 162,800.00
			CONSTRUCTION TOTAL		$ 976,825.00
INCIDENTALS					
1	Funding & Administration Services	0.9%	EST	$ 9,800.00	$ 9,800.00
2	Bonding Attorney	0.5%	EST	$ 5,900.00	$ 5,900.00
3	Engineering Design Services	5.8%	HR	$ 67,000.00	$ 67,000.00
4	Bidding & Negotiating	0.5%	HR	$ 5,300.00	$ 5,300.00
5	Construction Administration & Observation Services	6.0%	EST	$ 69,000.00	$ 69,000.00
6	GIS Mapping	0.4%	EST	$ 4,900.00	$ 4,900.00
7	Loan Origination Fee	0.5%	EST	$ 5,900.00	$ 5,900.00
8	Miscellaneous Professional Services	0.7%	EST	$ 7,500.00	$ 7,500.00
			SUBTOTAL		$ 175,300.00
			TOTAL PROJECT COST		$ 1,152,100.00

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs

Engineer's Opinion of Probable Cost

100 E Transmission Line Improvement
LaVerkin City
Approximately 8000 LF Irrigation Pipe

7-Feb-25
PJA/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	1	LS	$ 135,000.00	$ 135,000.00
2	Traffic Control	1	LS	$ 35,000.00	$ 35,000.00
3	SWPPP Compliance & Erosion Control	1	LS	$ 25,000.00	$ 25,000.00
4	Dust Control & Watering	1	LS	$ 25,000.00	$ 25,000.00
5	Construction Staking	1	LS	$ 16,000.00	$ 16,000.00
6	Subsurface Investigation	100	HR	$ 350.00	$ 35,000.00
7	Clearing, Grubbing, & Demolition	1	LS	$ 100,000.00	$ 100,000.00
8	Restore Surface Improvements	1	LS	$ 80,000.00	$ 80,000.00
9	Compaction & Materials Testing	1	LS	$ 15,000.00	$ 15,000.00
10	Miscellaneous Connections, Fittings & Tie-Ins	1	LS	$ 100,000.00	$ 100,000.00
11	15" Purple PVC C900, Fittings, & Installation	3,800	LF	$ 125.00	$ 475,000.00
12	12" Purple PVC C900, Fittings, & Installation	2,200	LF	$ 115.00	$ 253,000.00
13	8" Purple PVC C900, Fittings, & Installation	2,000	LF	$ 75.00	$ 150,000.00
14	15" Butterfly Valve Assembly	12	EA	$ 6,750.00	$ 81,000.00
15	12" Butterfly Valve Assembly	4	EA	$ 4,100.00	$ 16,400.00
16	10" Butterfly Valve Assembly	1	EA	$ 3,750.00	$ 4,000.00
17	8" Gate Valve Assembly	2	EA	$ 2,800.00	$ 5,600.00
18	6" Gate Valve Assembly	8	EA	$ 2,500.00	$ 20,000.00
19	4" Gate Valve Assembly	5	EA	$ 1,500.00	$ 7,500.00
20	3" Gate Valve Assembly	18	EA	$ 950.00	$ 17,000.00
21	Asphalt Removal	27,000	SF	$ 1.00	$ 27,000.00
22	8" Untreated Base Course	27,000	SF	$ 1.50	$ 40,500.00
23	3" Bituminous Surface Course - Category II	27,000	SF	$ 4.50	$ 122,000.00
24	Remove & Replace 5' Sidewalk	300	SF	$ 20.00	$ 6,000.00
			SUBTOTAL		**$ 1,791,000.00**
			CONTINGENCY	20%	**$ 358,200.00**
			CONSTRUCTION TOTAL		**$ 2,149,200.00**
INCIDENTALS					
1	Funding & Administration Services	0.6%	EST	$ 16,000.00	$ 16,000.00
2	Bonding Attorney	0.3%	EST	$ 8,000.00	$ 8,000.00
3	Engineering Design Services	5.4%	LS	$ 134,000.00	$ 134,000.00
4	Bidding & Negotiating	0.2%	HR	$ 5,000.00	$ 5,000.00
5	Construction Administration & Observation Services	4.6%	HR	$ 114,000.00	$ 114,000.00
6	GIS Mapping	0.4%	EST	$ 9,000.00	$ 9,000.00
7	Loan Origination Fee	0.4%	EST	$ 11,000.00	$ 11,000.00
8	Miscellaneous Professional Services	1.1%	EST	$ 28,000.00	$ 28,000.00
9	Topographic & Property Survey	0.5%	EST	$ 13,000.00	$ 13,000.00
			SUBTOTAL		**$ 338,000.00**
			TOTAL PROJECT COST		**$ 2,487,200.00**

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs.

FEE SCHEDULE

SUNRISE ENGINEERING

FEE SCHEDULE*

Work Classification	Hourly Rate	Work Classification	Hourly Rate
Administrative I	$78	Construction Observer III	$146
Administrative II	$98	Construction Observer IV	$174
Civil Engineering Intern	$110	Construction Observer V	$189
Civil EIT I	$125	GIS Tech	$94
Civil EIT II	$144	GIS Senior Tech	$115
Civil EIT III	$161	GIS Analyst	$140
Civil Engineer III	$177	GIS Senior Analyst	$165
Civil Engineer IV	$192	PI Specialist I	$118
Civil Engineer V	$199	PI Specialist II	$129
Civil Engineer VI	$214	PI Specialist III	$141
Civil Engineer VII	$229	PI Specialist IV	$153
Senior Civil Engineer	$243	PI Manager	$165
Principal Civil Engineer	$256	PI Director	$177
Civil Engineering Tech I	$101	Survey Tech	$99
Civil Engineering Tech II	$123	Survey CAD Tech	$145
Civil Engineering Tech III	$138	Survey Manager	$196
Civil Engineering Tech IV	$148	Registered Surveyor	$212
Construction Observer I	$109	Principal Surveyor	$234
Construction Observer II	$132	One Man Survey Crew	$172

REIMBURSABLE EXPENSE SCHEDULE*

Expense	Rate
Mileage	$0.67/Mile
Per Diem	$59/Day
Field Vehicle (On-Site)	$250/Day
Nuclear Density Gauge	$150/Day

*Fees automatically change after the beginning of each year and are subject to change on other occasions.

*Subconsultant and other direct expenses will be invoiced as cost incurred plus 15% handling fee.

*A convenience fee of 4% will be applied to all payments made with a credit card.

STG-2026 12-2025

State of Utah
SPENCER J. COX
Governor

DEIDRE HENDERSON
Lieutenant Governor

Department of
Environmental Quality

Tim Davis
Executive Director

DIVISION OF DRINKING WATER
Nathan Lunstad Ph.D, P.E.
Director

Drinking Water Board
Kristi Bell, Chair
Eric Franson, P.E., Vice-Chair
Dawn Ramsey
Justin Maughan
Corinna Harris
Shazelle Terry
Blake Tullis, Ph.D.
Phil Bondurant Dr. PH, LEHS
Tim Davis
Nathan Lunstad
Executive Secretary

12/19/2025

Derek Imlay, Director of Operations
La Verkin City Water System
435 North Main
La Verkin, Utah 84745

derek.imlay@laverkin.gov

Subject: **Federal SRF Loan Authorization and Procedures for Committal of Funds;** La Verkin City Water System, System #27099, Loan #3F3560

Dear Mr. Imlay,

On August 27, 2025, the Drinking Water Board (hereinafter called the "Board") authorized a loan of $2,228,000 with $1,114,000 in principal forgiveness, for a net repayable amount of $1,114,000 for 20 years at 2.50% hardship grant assessment fee in lieu of interest, to La Verkin City Water System (hereinafter called the "Recipient") for the construction of replacing aging lead and galvanized service lines (hereinafter called the "Project"). The loan from the Board will be secured by General Obligation bond(s), Non-voted Water Revenue bond(s), or a combination thereof; issued by the Recipient as incremental disbursement bond(s) (hereinafter referred to as Bonds) disbursed on a monthly or quarterly basis. The Board has determined the retirement period for the Bonds to be no more than **twenty (20) years**, with interest/fee assessment payable on the unpaid principal from the date of each advance of loan funds. The annual **HGA Fee is 2.50%.** The Board will require annual principal payments on the Bonds, plus interest assessments totaling approximately $71,000.00. If a revenue bond is used, a debt service reserve fund equal to this annual amount must be established by no more than ten equal annual deposits.

On November 18, 2025, the Drinking Water Board deauthorized a loan of $2,228,000 with $1,114,000 in principal forgiveness, for a net repayable amount of $1,114,000 for 20 years at 2.50% hardship grant assessment fee in lieu of interest, to La Verkin City Water System.

On November 18, 2025, the Drinking Water Board authorized a loan of $2,228,000 with $1,550,000 in principal forgiveness, for a net repayable amount of $678,000 for 30 years at 2.00% hardship grant assessment fee in lieu of interest to La Verkin City Water System.

All terms and conditions will remain as stated in the authorization letter dated September 17, 2025.

These requirements may not cover all the matters pertaining to the Project. We anticipate that specific questions on matters relating to your Project will arise, and we are confident that a cooperative effort can resolve any issues.

If you have any questions concerning these requirements, please contact Andrea Thurlow at (385) 260-0337 or me at (801) 674-2563.

Sincerely,
DRINKING WATER BOARD

Michael J. Grange, P.E.
Assistant Executive Secretary

MJG/at/kh
Enclosures
1. Repayment Schedule
2. W-9

cc: William Prater, Esq., William L. Prater, LLC, PO Box 71368, SLC, UT 84171, bill@billprater.com
Blaine Worrell, Sunrise Engineering, bworrell@sunrise-eng.com
Andrea Thurlow, Division of Drinking Water, athurlow@utah.gov
Paul Wright, DEQ District Engineer, pwright@utah.gov
DDW Finance

La Verkin

PROPOSED BOND REPAYMENT SCHEDULE

50 % Loan & 50 % P.F.

PRINCIPAL	$1,114,000.00	ANTICIPATED CLOSING DATE	09-Dec-25
INTEREST	2.50%	FIRST P&I PAYMENT DUE	19-Dec-26
TERM	20	REVENUE BOND	
NOMIN. PAYMENT	$71,459.90	PRINC. FORGIVE.:	$1,114,000.00

YEAR	BEGINNING BALANCE	DATE OF PAYMENT	PAYMENT		PRINCIPAL	INTEREST	ENDING BALANCE	PAYM NO.
2025	$1,114,000.00	December 19, 2025	$773.61	*	$0.00	$773.61	$1,114,000.00	0
2026	$1,114,000.00	December 19, 2026	$71,850.00		$44,000.00	$27,850.00	$1,070,000.00	1
2027	$1,070,000.00	December 19, 2027	$71,750.00		$45,000.00	$26,750.00	$1,025,000.00	2
2028	$1,025,000.00	December 19, 2028	$71,625.00		$46,000.00	$25,625.00	$979,000.00	3
2029	$979,000.00	December 19, 2029	$71,475.00		$47,000.00	$24,475.00	$932,000.00	4
2030	$932,000.00	December 19, 2030	$71,300.00		$48,000.00	$23,300.00	$884,000.00	5
2031	$884,000.00	December 19, 2031	$71,100.00		$49,000.00	$22,100.00	$835,000.00	6
2032	$835,000.00	December 19, 2032	$71,875.00		$51,000.00	$20,875.00	$784,000.00	7
2033	$784,000.00	December 19, 2033	$71,600.00		$52,000.00	$19,600.00	$732,000.00	8
2034	$732,000.00	December 19, 2034	$71,300.00		$53,000.00	$18,300.00	$679,000.00	9
2035	$679,000.00	December 19, 2035	$70,975.00		$54,000.00	$16,975.00	$625,000.00	10
2036	$625,000.00	December 19, 2036	$71,625.00		$56,000.00	$15,625.00	$569,000.00	11
2037	$569,000.00	December 19, 2037	$71,225.00		$57,000.00	$14,225.00	$512,000.00	12
2038	$512,000.00	December 19, 2038	$71,800.00		$59,000.00	$12,800.00	$453,000.00	13
2039	$453,000.00	December 19, 2039	$71,325.00		$60,000.00	$11,325.00	$393,000.00	14
2040	$393,000.00	December 19, 2040	$71,825.00		$62,000.00	$9,825.00	$331,000.00	15
2041	$331,000.00	December 19, 2041	$71,275.00		$63,000.00	$8,275.00	$268,000.00	16
2042	$268,000.00	December 19, 2042	$71,700.00		$65,000.00	$6,700.00	$203,000.00	17
2043	$203,000.00	December 19, 2043	$71,075.00		$66,000.00	$5,075.00	$137,000.00	18
2044	$137,000.00	December 19, 2044	$71,425.00		$68,000.00	$3,425.00	$69,000.00	19
2045	$69,000.00	December 19, 2045	$70,725.00		$69,000.00	$1,725.00	$0.00	20
			$1,429,623.61		$1,114,000.00	$315,623.61		

*Interest Only Payment

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ **Go to *www.irs.gov/FormW9* for instructions and the latest information.**

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.

Requester's name and address (optional)

6 City, state, and ZIP code

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your **TIN** in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–			–				

or

Employer identification number

		–						

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here **Signature of U.S. person** ▶ **Date** ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting,* later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,

2. You do not certify your TIN when required (see the instructions for Part II for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code,* later, and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships,* earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code,* later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C corporation, or S corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n) . . .	**THEN check the box for . . .**
• Corporation	Corporation
• Individual • Sole proprietorship, or • Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes.	Individual/sole proprietor or single-member LLC
• LLC treated as a partnership for U.S. federal tax purposes, • LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or • LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• Partnership	Partnership
• Trust/estate	Trust/estate

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)

2—The United States or any of its agencies or instrumentalities

3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

4—A foreign government or any of its political subdivisions, agencies, or instrumentalities

5—A corporation

6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession

7—A futures commission merchant registered with the Commodity Futures Trading Commission

8—A real estate investment trust

9—An entity registered at all times during the tax year under the Investment Company Act of 1940

10—A common trust fund operated by a bank under section 584(a)

11—A financial institution

12—A middleman known in the investment community as a nominee or custodian

13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over $600 required to be reported and direct sales over $5,000[1]	Generally, exempt payees 1 through 5[2]
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

[1] See Form 1099-MISC, Miscellaneous Income, and its instructions.

[2] However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester,* later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.SSA.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/Businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. Go to *www.irs.gov/Forms* to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to *www.irs.gov/OrderForms* to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code,* earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account[1]
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor[2]
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee[1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner[1]
6. Sole proprietorship or disregarded entity owned by an individual	The owner[3]
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	**Give name and EIN of:**
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity[4]
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships,* earlier.

***Note:** The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

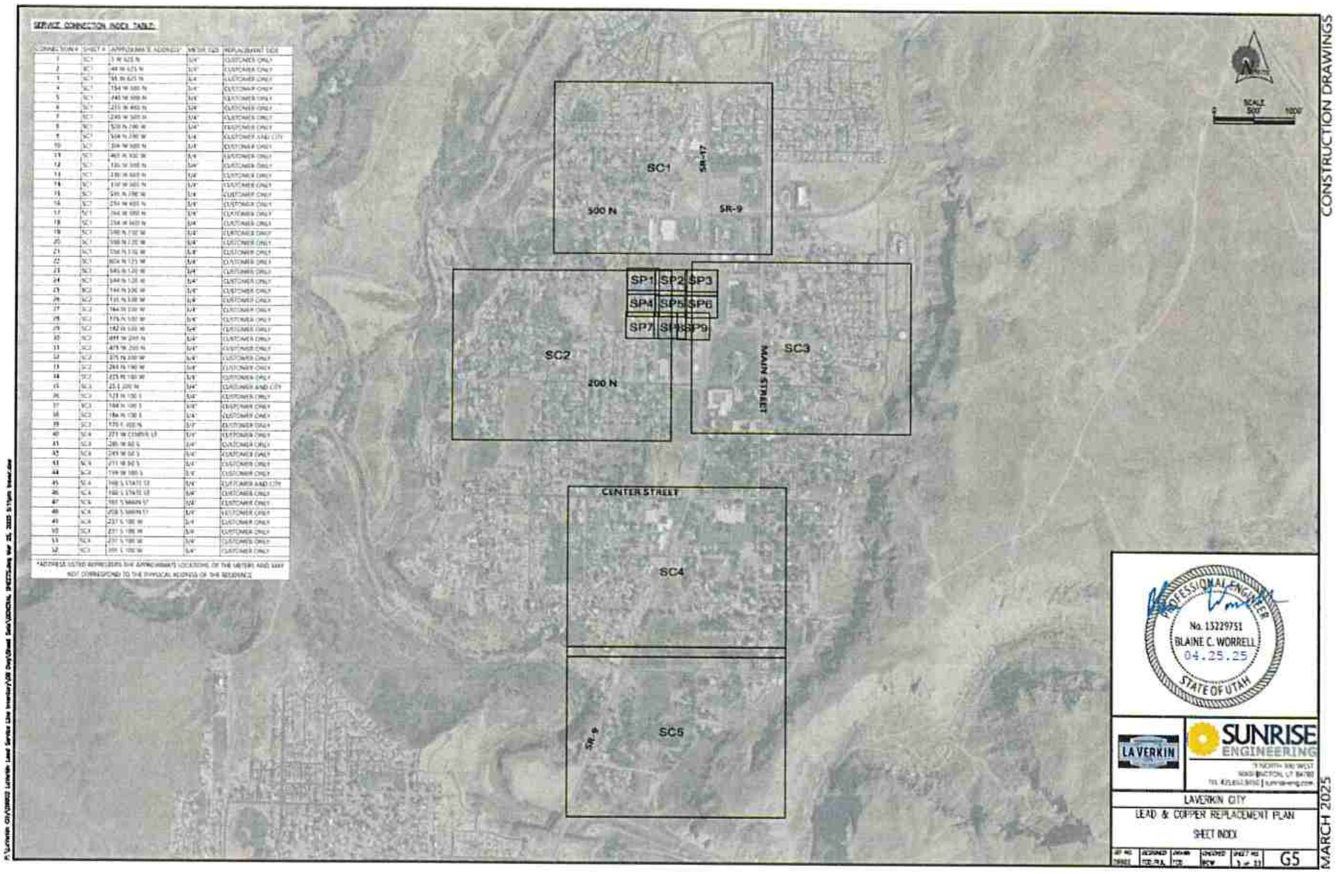
The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at *spam@uce.gov* or report them at *www.ftc.gov/complaint*. You can contact the FTC at *www.ftc.gov/idtheft* or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see *www.IdentityTheft.gov* and Pub. 5027.

Visit *www.irs.gov/IdentityTheft* to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.



SERVICE CONNECTION INDEX TABLE:

CONNECTION #	SHEET #	APPROXIMATE ADDRESS*	METER SIZE	REPLACEMENT SIDE
1	SC1	3 W 625 N	3/4"	CUSTOMER ONLY
2	SC1	48 W 625 N	3/4"	CUSTOMER ONLY
3	SC1	98 W 625 N	3/4"	CUSTOMER ONLY
4	SC1	154 W 500 N	3/4"	CUSTOMER ONLY
5	SC1	240 W 500 N	3/4"	CUSTOMER ONLY
6	SC1	215 W 400 N	3/4"	CUSTOMER ONLY
7	SC1	249 W 500 N	3/4"	CUSTOMER ONLY
8	SC1	520 N 190 W	3/4"	CUSTOMER ONLY
9	SC1	504 N 290 W	3/4"	CUSTOMER AND CITY
10	SC1	204 W 500 N	3/4"	CUSTOMER ONLY
11	SC1	463 N 100 W	3/4"	CUSTOMER ONLY
12	SC1	105 W 500 N	3/4"	CUSTOMER ONLY
13	SC1	230 W 600 N	3/4"	CUSTOMER ONLY
14	SC1	130 W 600 N	3/4"	CUSTOMER ONLY
15	SC1	505 N 290 W	3/4"	CUSTOMER ONLY
16	SC1	254 W 400 N	3/4"	CUSTOMER ONLY
17	SC1	264 W 500 N	3/4"	CUSTOMER ONLY
18	SC1	254 W 600 N	3/4"	CUSTOMER ONLY
19	SC1	590 N 110 W	3/4"	CUSTOMER ONLY
20	SC1	590 N 120 W	3/4"	CUSTOMER ONLY
21	SC1	556 N 110 W	3/4"	CUSTOMER ONLY
22	SC1	604 N 125 W	3/4"	CUSTOMER ONLY
23	SC1	545 N 120 W	3/4"	CUSTOMER ONLY
24	SC1	544 N 120 W	3/4"	CUSTOMER ONLY
25	SC2	144 N 300 W	3/4"	CUSTOMER ONLY
26	SC2	135 N 330 W	3/4"	CUSTOMER ONLY
27	SC2	164 N 330 W	3/4"	CUSTOMER ONLY
28	SC2	175 N 500 W	3/4"	CUSTOMER ONLY
29	SC2	182 N 500 W	3/4"	CUSTOMER ONLY
30	SC2	499 W 200 N	3/4"	CUSTOMER ONLY
31	SC2	475 W 200 N	3/4"	CUSTOMER ONLY
32	SC2	275 N 200 W	3/4"	CUSTOMER ONLY
33	SC2	260 N 190 W	3/4"	CUSTOMER ONLY
34	SC2	225 N 180 W	3/4"	CUSTOMER ONLY
35	SC3	25 E 200 N	3/4"	CUSTOMER AND CITY
36	SC3	125 N 100 E	3/4"	CUSTOMER ONLY
37	SC3	164 N 100 E	3/4"	CUSTOMER ONLY
38	SC3	184 N 100 E	3/4"	CUSTOMER ONLY
39	SC3	170 E 400 N	3/4"	CUSTOMER ONLY
40	SC4	271 W CENTER ST	3/4"	CUSTOMER ONLY
41	SC4	285 W 60 S	3/4"	CUSTOMER ONLY
42	SC4	249 W 60 S	3/4"	CUSTOMER ONLY
43	SC4	211 W 60 S	3/4"	CUSTOMER ONLY
44	SC4	119 W 100 S	3/4"	CUSTOMER ONLY
45	SC4	160 S STATE ST	3/4"	CUSTOMER AND CITY
46	SC4	160 S STATE ST	3/4"	CUSTOMER ONLY
47	SC4	161 S MAIN ST	3/4"	CUSTOMER ONLY
48	SC4	208 S MAIN ST	3/4"	CUSTOMER ONLY
49	SC4	237 S 100 W	3/4"	CUSTOMER ONLY
50	SC4	231 S 100 W	3/4"	CUSTOMER ONLY
51	SC4	237 S 100 W	3/4"	CUSTOMER ONLY
52	SC4	191 S 100 W	3/4"	CUSTOMER ONLY

*ADDRESS LISTED REPRESENTS THE APPROXIMATE LOCATIONS OF THE METERS AND MAY NOT CORRESPOND TO THE PHYSICAL ADDRESS OF THE RESIDENCE

LaVerkin City
Secondary Water
Conservation Plan

12/29/2025

LA VERKIN
CITY
EST. 1898

Table of Contents

System Profile Information

Service Area: LaVerkin City's Irrigation system services the lower bench of LaVerkin City's municipal boundary. There are portions of the lower bench that do not have the ability to service due to the lack of infrastructure.

Service Connections:

Type of Connection	Number of Connections
Residential	1013
Commercial	1
Institutional	11
Agriculture	21
Total	1087

Source	Amount (af)
VR 81-2477	1630.2
VR 81-4334	990
VR 81-2481	20
VR= Virgin River	
Total	2640.2 af

Irrigation Water Use

Water Supply: The following table shows the ratio of water usage per type of connection in the system.

Type of Connection	Total % of water use
Residential	66
Commercial	1
Institutional	11
Agricultural	22
Total	**100%**

System Water Loss:
Through the Master Meter to LaVerkin, the City sees a consistent 0.4 CFS of flow through the meter indicating water loss. The City has started the process of doing a large-scale improvement project. This would include new main lines, new connection points to homes, adding reuse as another source of water, and the building of a settling pond. These improvements with the leak repairs that are currently being made should help the City see reduce water loss by approximately 200 acre-ft.

Water Conservation

The City has established the following secondary water conservation goal:

By 2035, reduce total secondary water consumption to approximately 1,240 acre-feet per year, thereby conserving about 1,400 acre-feet per year of the City's allowable annual water right duty.

The City's goal represents a usage reduction in the next 10 years of approximately 34% of the average annual usage. This usage reduction is more aggressive than the Regional Conservation Goal of 19% by 2040, established for M&I Water Conservation in Washington County.

Current Conservation Practices

The City as enacted the following policies, rules, and regulations through their municipal code to encourage secondary water conservation:

8-2-11.E Scarcity Of Water: In time of scarcity of water, whenever it shall in the judgment of the public works director be necessary, the public works director shall by notice limit the use of irrigation water to the extent as may be necessary. The public works director shall have this authority without concurrence of the board or city council in the event of an emergency. In this event, the notice shall be reviewed at the next available regular meeting of the board and city council. It shall be unlawful for any person, his family, servants or agents to violate any notice to limit the use of irrigation water made by the chairman in pursuance of this section.

8-2-12.E Open Discharge:
1. General Rule: Except as provided in subsection E.2 below, there shall be no open discharge of water from the irrigation system.
   a. No flood irrigation shall be permitted from the irrigation system.
   b. All water shall be discharged using a sprinkler, bubbler, drip system or other similar restrictive device.

8-2-12.I Waste:
1. It shall be unlawful for any water user to waste water. Wasting water includes, but is not limited to, the following:
   a. Allowing water to be wasted by leaky stops, taps, valves, joints or pipe;
   b. Wastefully running water from faucets, sprinklers or stops or through basins, sinks or other apparatus;
   c. Using the water for nonagricultural or nonlandscaping purposes; or
   d. Allowing irrigation water to enter into the street due to overwatering.

2. If, in the judgment of the city, a user of irrigation water engages in practices which result in the needless waste of water, the city shall mail to the user written notice to discontinue the waste. If the waste is not terminated within ten (10) days of mailing, the city may terminate the water service, unless otherwise outlined by contract.

8-6-3.A The city shall encourage wise use of water and conservation of all water resources on an ongoing basis.

8-6-6: TIME OF DAY LANDSCAPE WATERING RESTRICTIONS:

A. Purpose: It is in the public interest to conserve water resources and to promote efficient use of water on public and private amenity landscapes; and to protect and enhance the community's economic, environmental, recreational, and aesthetic resources by reducing water waste and promoting water use efficiency in amenity landscape irrigation.

B. Restrictions: Sprinkler irrigation of public and private amenity landscapes should be limited to those periods where the maximum benefit can be obtained from the water used.

1. Where feasible, such irrigation should be limited to the hours of six o'clock (6:00) P.M. to ten o'clock (10:00) A.M. and to times of low wind, to avoid excessive loss of water through evapotranspiration.

2. Water users are strongly encouraged to avoid overwatering and/or wasting of water; and to apply water at the times and using the methods most appropriate for the soils and ground cover involved, with due consideration for the limited nature of water as a resource and the need for such water by others.

LaVerkin City during the summer months continues to reach out to consumers of the ineffective watering that takes place between 10:00 am and 6:00 pm. LaVerkin has set an example by making sure all the municipal property is not watered during these times.

8-8-3-1: CONSTRUCTION STANDARDS:

B. The following shall be installed in all new single-family and multiple-family dwellings:

1. Water Sense labeled fixtures, including, but not limited to irrigation controllers, faucets, showerheads, toilets, and urinals.

8-8-3-2: LANDSCAPE STANDARDS:

A. For all new residential construction or development, landscaping shall meet the following requirements:

1. Single-Family Dwellings.

a. The total grass area shall not exceed the following:

LOT SIZE	MAXIMUM GRASS
Up to 7,500 sf	600 sf
7,500 + to 25,000 sf	8% of lot sf
25,000+ sf	2,000 sf

b. Multi-family developments with less than 6 dwelling units shall be allowed 600 square feet of lawn.

c. Multi-family developments with more than 6 dwelling units shall be allowed 100 square feet per of lawn per dwelling unit.

d. lawn is prohibited in park strips, in landscape areas less than eight feet wide, and on any slope that exceeds 15%; and

LaVerkin has adopted new standards which limit the amount of grass and other landscape types for all new buildings since 2023. These standards reduce the amount of grass permitted on a property by municipal ordinance 8-8-3-2.

8-8-3-3: RESTRICTIVE COVENANTS IN CONFLICT WITH WATER EFFICIENCY STANDARDS: To the extent permitted by applicable law, any homeowners or property owners' association governing documents, such as bylaws, operating rules, covenants, conditions, and restrictions, that govern the operation of a common interest development, recorded after adoption of this Chapter, are deemed void and unenforceable if they conflict with the water efficiency standards in this Chapter, or if they have the effect of prohibiting or restricting compliance with this Chapter. (Ord. 2022-08, 9-7-2022)

8-8-4: NONRESIDENTIAL ZONES AND DEVELOPMENT WATER EFFICIENCY STANDARDS: These provisions are applicable to all new construction and new development in all nonresidential zones, and nonresidential development in any zone located in the areas identified in Section 8-8-1-3 above. (Ord. 2022-08, 9-7-2022)

8-8-4-1: CONSTRUCTION STANDARDS:

B. Water Sense labeled fixtures shall be installed, including, but not limited to irrigation controllers, faucets, showerheads toilets, and urinals.

F. Manmade Ornamental Water Features, Manmade ornamental water features are limited to 25 square feet of surface area per parcel and are limited to the parcel.

G. All golf courses using water district or municipal water supplies shall irrigate with secondary irrigation water and shall have separate water meters for the golf course. Irrigation with potable water is prohibited. Each golf course development shall submit and follow a water budget with the Landscape Documentation Packet and identify water conservation measures for city approval.

8-8-4-2: LANDSCAPED STANDARDS:

A. All new construction, new development and rehabilitation shall meet the Landscape Design Standards and Irrigation Design Standards of this Chapter.

1. Lawn areas are prohibited except where an Active Recreation Area is appropriate, such as at a childcare center or athletic complex.

2. Lawn is prohibited in any area less than 8 feet wide and/or upon a slope that exceeds 15 percent and/or within any area less than 10 feet from a roadway. lawn is not allowed within streetscape frontages, parking lots, roundabouts, medians, driveways, park strips and other areas not conducive to access and safe use.

3. Landscape and irrigation installers shall follow the plans that have been signed and approved by the city.

4. Each project shall propose and follow an approved Planting Plan. At least forty percent (40%) of the project's proposed (and installed) landscaped area shall contain vegetative cover consisting of water-efficient shade trees and/or bushes adequate in number and configuration to

visually enhance the project, prevent heat islands, and prevent soil erosion. The configuration of the vegetation in the Planting Plan is in the sole discretion of the city.

B. The Plant List, as defined in Section 8-8-2 , shall be consulted in determining appropriate, adaptable and environmentally sustainable trees, shrubs, and other plants to be planted and maintained.

8-8-4-3: IRRIGATION DESIGN STANDARDS:

B. Irrigation Controller. It is required that landscaped areas use a Water Sense labeled smart irrigation controller, which automatically adjusts the frequency and/or duration of irrigation events in response to changing weather conditions. All controllers shall be equipped with automatic rain delay or rain shut-off capabilities and shall have memory retention capability to retain pre-programmed irrigation schedules. Sites are not exempt from water waste prohibitions.

C. Each valve shall irrigate a landscape with a similar site, slope and soil conditions, and plant materials with similar watering needs. Grass, trees and non-grass areas shall be irrigated on separate valves. Drip emitters and sprinklers shall be placed on separate valves.

D. Low-volume irrigation equipment (i.e., drip emitters discharging 20 gallons per hour, or less) shall be provided for each tree.

E. Drip irrigation shall be used to irrigate plants in non-grass areas. Spray head to drip conversion for rehabilitated landscape sites may be acceptable with city approval of Irrigation Plans.

F. High conservation efficiency spray nozzles are required for sprinkler applications.

G. Sprinkler heads shall have matched precipitation rates with each control valve circuit.

H. Sprinkler heads shall be attached to rigid lateral lines with flexible material (swing joints) to reduce potential for breakage.

L. Water waste is prohibited.

1. Waste includes overwatering, irrigating during a precipitation event, water that sprays or flows off your property, failure to comply with drought restrictions and/or a failure to repair irrigation system leaks and/or malfunctions in a timely manner. [See Section 8-1-17.]

2. Overwatering can be avoided by following the Washington County Conservancy District recommended irrigation schedule and practices as noted on wcwcd.org. The generally recommended schedule is:

a. Winter (Nov - Feb) - sprinkler and drip irrigation up to 1 day a week. Irrigation is typically not needed in December and January

b. Spring (Mar - April) - sprinkler irrigation up to 3 days a week and drip irrigation up to 2 days a week

c. Summer (May - Aug) - sprinkler irrigation up to 4 days a week and drip irrigation up to 3 days a week

d. Fall (Sept - Oct) - sprinkler irrigation up to 3 days a week and drip irrigation up to 2 days a week

M. Program valves for multiple repeat cycles are required to reduce runoff on slopes and for soils with slow infiltration rates. (Ord. 2022-08, 9-7-2022; amd. Ord. 2023-14, 12-6-2023)

LaVerkin also reminds citizens of the programs available to which the Washington County Conservancy District will buy the property owner's grass back to have less irrigatable lawns, as well as the reimbursement program for the purchase of smart watering clocks.

Future Conservation Practices

The following City proposed initiatives will contribute to the City's conservation goals.

1. Large Scale Improvements to the Irrigation Distribution System:

The City intends to replace nearly 25% of the existing main line distribution system. This initiative will help to recapture the approximately 200 afa lost to system slippage.

This initiative will relocate main lines from back lots to municipal rights-of-way. This will allow for easier and faster repairs, reducing interim losses.

The new distribution system will utilize new materials decreasing the number of breaks caused by aging pipes, valves, and services.

The Major infrastructure replacement program is scheduled to begin in 2026 and is anticipated to be completed by the end of 2028.

2. Improve Quality of Secondary Water

Beginning in 2026, the WCWCD will construct a secondary water storage pond in LaVerkin that the City will also utilize. The pond will function as both storage and a settling pond.

In the near term, the pond will store Virgin River water and allow suspended sediment to settle prior to delivery, improving water quality at the customer connection. Improved quality is expected to reduce sprinkler clogging and encourage use of secondary water in place of potable water for landscaping.

Over the long term, the pond will store reuse water from the Confluence Park Water Reclamation Facility, gradually replacing the amount of Virgin River water used for the secondary system.

Overall, the storage pond will improve delivered water quality and reliability, promoting secondary water use and conserving potable water for indoor demands.

The LaVerkin Settling pond and reuse contribution to the secondary system will begin work in 2026 and see the completion of work in the Summer/Fall of 2026.

Evaluation Plan:

Conservation Practices & Measures:

- Practice: As a municipality, review total effectiveness of ongoing and past conservation practices and implementations.
    - Measure: Review secondary usage year over year to determine monthly and annual reductions in secondary water usage.

- Practice: Promote the installation of smart irrigation controllers and rebates offered through Utah Water Savers.
    - Measure: Estimate annual water savings based on how many smart controllers are installed in the service area.
- Practice: Promote conservation efforts such as smart irrigation practices, and the lawn buyback rebate program offered by the WCWCD.
    - Measure: Estimate annual water savings based on the number of users participating in the turf buyback program.

Exemption Status

Declaration of Exemption Date: December 5, 2022

Exemption Classification:

1) Secondary meter costs exceed 25% of the total operating budget.

2) cannot obtain a warrantied meter due to water quality.

Annual Evaluation

With the declaration of exemption, the City will submit annual evaluations to the Division of Water Resources on the effectiveness of the City's conservation efforts.

These evaluations will include:

- How well the City is doing on its conservation goal and if the City is on track to meet the target deadline
- Any adjustments, if any, that the City will need to make to improve conservation efforts

These evaluations will be submitted by November 30th each year.

City Public Works Contacts

Derek Imlay
Director of Operations (435)635-2581

Kyle Lovelady
Public Works (435) 359-1799

Certification of Adoption

We hereby certify that the attached Water Conservation Plan has been established and adopted by our Water Board on December 29, 2025.

Doug Wilson, Water Board Chairman

Kelly Wilson, La Verkin City Mayor

Nancy Cline, Recorder

Appendix A

Regional Conservation Goals

County-Level M&I Water Conservation Data

Regions/ Counties	Baseline (gpcd)	2030	2040	2065	Reduction from Baseline		
	2015	Goal (gpcd)	Projection (gpcd)	Projection (gpcd)	2030	2040	2065
Bear River							
Box Elder	318	266	249	236	17%	22%	26%
Cache	264	233	217	204	18%	24%	28%
Rich	1,275	984	918	909	23%	28%	29%
Green River							
Daggett	423	343	314	307	19%	26%	27%
Duchesne	327	267	254	254	18%	22%	22%
Uintah	256	212	205	206	17%	20%	19%
Lower Colorado River North							
Beaver	553	390	360	356	30%	35%	36%
Garfield	582	463	432	429	20%	26%	26%
Iron	223	193	182	173	13%	19%	23%
Lower Colorado River South							
Kane	358	304	289	282	15%	19%	21%
Washington	302	260	246	236	14%	19%	22%
Provo River							
Juab	373	292	280	284	22%	25%	24%
Utah	214	172	155	145	20%	27%	32%
Wasatch	344	265	249	249	23%	28%	28%
Salt Lake							
Salt Lake	210	186	178	169	11%	15%	19%
Tooele	224	195	184	176	13%	18%	21%
Sevier River							
Millard	522	422	398	397	19%	24%	24%
Piute	391	341	322	326	13%	18%	17%
Sanpete	366	272	250	252	26%	32%	31%
Sevier	363	322	312	317	11%	14%	13%
Wayne	537	412	381	388	23%	29%	28%
Upper Colorado River							
Carbon	267	239	230	230	11%	14%	14%
Emery	569	376	337	333	34%	41%	41%
Grand	309	282	272	267	9%	12%	13%
San Juan	199	180	175	177	11%	14%	13%
Weber River							
Davis	235	188	170	161	20%	28%	32%
Morgan	238	187	179	186	22%	25%	22%
Summit	341	300	290	286	12%	15%	16%
Weber	256	202	184	176	21%	28%	32%
Statewide	240	202	188	179	16%	22%	26%

Note M&I = municipal and industrial; gpcd = gallons per capita per day based on permanent population. Reported per-capita use includes all residential, commercial, institutional, and industrial uses averaged over the permanent population in each region.

*Everything marked in **RED** is new*

ORDINANCE NO: 2025 -

AN ORDINANCE OF THE CITY COUNCIL OF LAVERKIN, UTAH, AMENDING THE CEMETERIES RULES AND REGULATIONS.

WHEREAS, the City Council of LaVerkin deems it necessary from time to time to amend and update Title 7, Chapter 6, of the LaVerkin City Cemetery ordinances for the betterment of both the city and the residents of LaVerkin, Utah,

"WHEREAS, the existing Cemetery ordinance title 7 Chapter 6 needs to be amended and updated from time to time to reflect current laws, needs, and standards; and."

"WHEREAS, the amendment to the Cemetery ordinance is intended to provide requirements and procedures that are more uniform with the surrounding cities and towns and"

WHEREAS, having reviewed and carefully considered the proposed Ordinance, the City Council approves the Ordinance (as written or as further modified by the City Council), and deems it to be in the best interests of the City and its residents, to amend the City Code as provided herein

NOW THEREFORE BE IT ORDAINED BY THE CITY COUNCIL OF LaVERKIN, UTAH

CHAPTER 6
CEMETERIES

SECTION:

7-6-1: CITY CEMETERY:
The burial ground of the city shall be known and designated by the name of LaVerkin Cemetery. (1982 Code § 8-202)

7-6-2: DEFINITIONS:

The following words or phrases shall have the following meanings, unless the context otherwise clearly requires:

BURIAL: The interment of human remains, including cremated remains.

BURIAL LOT: The location, by section and block, identified in a city cemetery for the future exercise of a burial right, or the memorial to a deceased person, including historically created half burial lots.

BURIAL RIGHT: The nontransferable, limited right of a specific individual to be buried in a specific burial lot in any land designated by the city as a cemetery or a cremation garden.

BURIAL VAULT: A structure used to hold a casket or container of cremated remains.

CERTIFICATE OF BURIAL RIGHT: A document issued by the city identifying the individual who may be buried in a burial lot.

CREMATED REMAINS: The remains of a deceased human that have been reduced to ashes.

DISINTERMENT: The permanent removal of a casket or cremated remains from a burial lot.

EXHUMATION: The temporary removal of human remains from a burial lot.

GRAVE: A burial lot in which human remains, including cremated remains, have been buried or which has been excavated in anticipation of burial.

HEADSTONE: A marker or monument used to identify the person interred in a burial lot.

LOT: The partial lots or single graves in the city cemetery.

LOT OWNER OR PURCHASER AND GRAVE OWNER OR PURCHASER: The owner or purchaser of burial privileges or the collateral right of use of any burial lot evidenced by a deed or burial right for a described lot or by proved and recognized descent or devise from the original owner. (1982 Code § 8-202)

MARKER: A headstone that is flat, flush to the natural grade of a grave, identifying the person whose remains are buried in the grave.

MEMORIALS: Items placed on a burial lot as a remembrance.

MONUMENT: A headstone that is upright, located on a grave, identifying the person whose remains are buried interred in the grave

PLOT: Each single gravesite within a lot.

7-6-3: APPLICABILITY:

All cemeteries owned and/or maintained by the city or which may hereafter be acquired by the city wherever situated are hereby declared subject to the provisions of this chapter. (1982 Code § 8-203)

7-6-4: CEMETERY SEXTON:

A. Created: There is hereby created the position of cemetery sexton. (1982 Code § 8-211; amd. 1998 Code)

B. Duties: The cemetery sexton shall have the general supervision and administration of the city cemetery, including, but not limited to:

1. Recommending to the city council such additional rules and regulations as may be necessary for the operation, maintenance, use and protection of the cemetery.

2. Subdividing the cemetery into lots and grave sites.

3. Maintaining a record of the location of the graves and preventing any lot from being used beyond its capacity.

4. Keeping a duplicate plat of the cemetery and, at the request of any person wishing to purchase any of the lots or parts of lots, pointing out any of the lots or parts of lots for sale; and upon disposal of any lots or part thereof, notifying the city clerk/recorder of such fact. The city clerk/recorder shall, after payment of the lot price has been received in the treasury, issue a certificate of burial rights which shall describe the lot or grave to which the right to burial is granted. The certificate shall be signed by the mayor and the city clerk/recorder. (1982 Code § 8-212; amd. 1998 Code)

7-6-5: BURIALS:

A. Certificate Required: It shall be unlawful for any person to bury the body of a deceased person in the city cemetery without first obtaining a certificate of burial right for the lot used or producing satisfactory evidence of a right to burial based on a properly acquired certificate of burial right. (1982 Code § 8-222)

B. Registration: Before any deceased person may be buried in the city cemetery, the relatives or person having charge of the deceased shall provide the city clerk/recorder with a written statement which shall be filed by the city clerk/recorder, which statement shall contain, if known, information about the deceased regarding his or her name, when and where born, the date and cause of death, the name of the attending physician, date of burial, name of cemetery and the description of the location of the grave. (1982 Code § 8-223)

C. Vaults:

1. Unless in writing waived by the cemetery sexton, it shall be unlawful for any person to be buried in the cemetery unless the casket shall be placed in a vault made of concrete, fiberglass, steel ~~or~~ brick lined, *Polypropylene, or Industry - standard Vaults of and such* or of such other material approved by the city council, substantially constructed and covered with a similar durable material.

Commented [DI1]: Since 1982, industry standards have changed significantly, necessitating the approval of alternative vault types.

2. No wood shall be used as a permanent part of the construction of any part of the vault. (1982 Code § 8-225; amd. 1998 Code)

D. Burial Days: Monday through Saturday, except City-observed State and Federal holidays, except New Year's Day, Memorial Day, Thanksgiving Day, and Christmas Day. When the City-observed State and Federal holiday falls on a Saturday, this includes the actual holiday and the preceding day; when it falls on a Sunday, this includes the actual holiday and the following day. Except as otherwise ordered by the Mayor (in exceptional circumstances), there shall be no interments on Sundays. New Year's Day. July 4th. Pioneer Day. Veterans Day. Thanksgiving Day. Christmas Day. or Friday through Monday of the Memorial Day weekend

Commented [DI2]: (D) Burial Days - (E) Internet timeline - (E-1)Service time was adopted by Resolution (R-2022-01), January 6, 2022. We want to include this portion in the Cemetery ordinance to make it easier for people to find and comply with.

E. Internment: Persons desiring to arrange for an interment must contact the City at least 48 hours prior to the scheduled time of interment. Failure to do so may prevent the scheduling of the interment at the desired time; if the sexton or other applicable City official determines that the interment may practically occur at the desired time of interment,

1. Interment (and associated graveside services or visits) may be scheduled until 2:30 p.m. and shall finish within two hours from the scheduled time; and all visitors will be clear of the grave site prior to the end of such two-hour period and no later than 4:30 p.m. for an afternoon interment, to give City employees sufficient time to complete all associated services and needed site-restoration by 5:00 p.m.

D. Unlawful Acts: It shall be unlawful for any person to:

1. Disinter any body buried in any cemetery, except under the direction of the cemetery sexton who shall, before disinterment, require written permission from both the Southwestern district health officer and the owner of the lot or his or her heirs, which written authorization shall be filed and preserved in a record kept for such purposes.

2. Disinter or remove the body of a person who has died from a contagious disease within two (2) years after the date of burial, unless the body was buried in a hermetically sealed casket or vault and is found to be so incased at the time of disinterment.

3. Inter anything other than the remains of human bodies in cemeteries.

4. Bury the body of any person within the city, except in the city cemetery or a private cemetery, unless by special permission of the city council under such rules and regulations that it may prescribe. (1982 Code § 8-224; amd. 1998 Code)

7-6-6: FEES AND CHARGES:

A. Established; Authority: The city council shall, from time to time by resolution, fix the size of lots, the price at which burial rights shall be sold and the fees which shall be charged for the various cemetery services to be provided. (1982 Code § 8-243)

B. Collection: The city clerk/recorder, and such other persons as the city council may designate, are hereby authorized and required to collect in advance, prices and fees for the opening and closing of graves or other services which shall include, but not be limited to, properly disinterring bodies and properly restoring the earth and grounds, recording each burial, disinterment or removal and raised monument privileges. The fees shall be such amounts as are determined by the city council from time to time by resolution. (1982 Code § 8-241)

C. Opening Graves:

1. No grave shall be opened in the city cemetery until payment of a fee for the labor and expense in so opening the grave shall be paid.

2. The presentation of a receipt from the city clerk/recorder or person designated by the city council when presented to the cemetery sexton, shall be authority to open a grave for the burial of a deceased person. However, upon a contract being entered into between any mortician and the city wherein the mortician agrees to be responsible and liable for fees for the opening of a grave, and wherein that mortician will be personally liable for such fees and for perpetual care payments, the city clerk/recorder or authorized person may give the cemetery sexton authority to open graves without the presentation of a receipt from the city clerk/recorder or authorized person. (1982 Code § 8-242; amd. 1998 Code)

7-6-7: LOT SALES:

~~A. Authority; Records: The city clerk/recorder, and such other person as the city council may designate, are hereby authorized to sell the use of lots in the city cemetery for burial purposes only and to collect all sums arising from the sale. The city clerk/recorder shall keep a complete record of all sales, which record shall describe the location of the lot purchased and the price paid therefor. The city clerk/recorder or designated person shall deliver to each purchaser a certificate of burial rights for each lot purchased, which certificate shall, among other things, describe the location of the lot and the purchase price.~~

A. Authority and Records: The city clerk/recorder, along with any other individual designated by the city council, is authorized to sell burial rights only to individuals. Upon the sale of a burial right, the city will issue a certificate of burial right. This certificate grants the individual named within it the non-transferable right to be buried in the identified burial lot. However, the certificate of burial right only conveys a license for burial and does not confer any title, fee, or other ownership or possessory interest in the burial lot itself.

B. An individual may purchase more than one burial right, as long as each issued certificate identifies the individual entitled to be buried in the corresponding lot. However, one individual may be named in no more than two certificates. Any certificate of burial right that does not designate the individual eligible for burial in the identified lot is invalid, except in the following circumstances:

1.While alive, the individual named in the certificate must provide written consent for any other remains to be interred in the identified burial lot.

2. After that individual has passed away, the burial of any other remains may be authorized by:

Commented [DI3]: In recent years, we have encountered problems with plot owners permitting unauthorized burials in plots assigned to them or others. Some individuals claim their family member or friend has died and was buried elsewhere, leading them to believe they can use the plot for burial. Subsequently, other family members may come forward wanting to be buried in the same plot, resulting in confusion when staff unintentionally allow another burial in that plot.

This situation creates significant grief and challenges for staff, who find themselves caught in the middle of these disputes.

We have included the following outline, which gives a clear process to follow, which will help to alleviate staff involvement in these matters.

A)Authority and Records - (B) Individual burial purchase - (B-1-2-a-b-c) the only Ways that people can transfer burial locations.

a) *The surviving spouse of the individual named in the certificate, or*

b) *If no spouse survives, a descendant who must provide proof of power of attorney for the individual named in the certificate.*

c) *The descendant may either obtain written consent from all surviving descendants of the individual named in the certificate (by representation), or they must notify all descendants in writing of their intent to permit other remains in the burial lot. This notification must explicitly state that any objections to the proposed burial must be submitted to the city in writing within thirty (30) days.*

If the city does not receive any objections within that thirty-day period from the date the last notice was mailed, the descendant may consent to the burial of other remains in the lot. Conversely, if an objection is received within thirty (30) days from that date, the descendant cannot consent to the burial of other remains.

Before notifying descendants of the intent to consent to the burial of other remains, the descendant must inform the city of this intent, provide the names and last known addresses of all known surviving descendants of the individual named in the certificate, and deliver copies of the notices to the city, along with proof of mailing. The legally recognized guardian of any minor or incapacitated descendant may act on behalf of that minor or incapacitated descendant.

C. Purchase Price, Scope Of: A certificate and rights to burial shall be exempt from execution, taxation or assessment for care and maintenance from and after full payment of the purchase price. Payments made pursuant to this section shall not be construed to be in payment for cemetery services other than perpetual care.

D. Services Included: Perpetual care shall be deemed to include the filling of the grave, the placing of topsoil upon the grave, seeding the grave with grass and watering and cutting the grass. No other services are included.

E. Improvements, Changes And Services: No other improvements, changes or service, except perpetual care, shall be made on any lot without the certificate holder or his heirs first submitting to and receiving from the cemetery sexton written approval for such improvements, changes or services, which improvements, changes or services shall be subject to the rules and regulations promulgated by the city council. (1982 Code § 8-251; amd. 1998 Code)

F. Resale Restrictions:

1. From and after March 15, 1982, the lots sold by the city shall not be further sold, transferred, conveyed or assigned to any person except the city. The city hereby agrees to buy back any city cemetery grave lot which it may hereafter sell. The repurchase of such lots shall be for the original price paid by the purchaser or the current selling price of the lot, whichever is less.

2. Whenever a certificate to burial rights or lots reverts to the city, as provided for in this subsection, or becomes vested in the city for any reason, before new certificates are issued, the original certificate shall be canceled or an assignment given and the record shall be so changed. (1982 Code § 8-252)

3. The certificates shall be issued and signed and attested by the city clerk/recorder. All lots or parts of lots, as provided in this subsection, together with all improvements, shall be exempt from execution and from taxation and assessment for care and maintenance charges from and after said payment. (1982 Code § 8-252; amd. 1998 Code

7-6-8: PLACEMENT OF MONUMENTS AND MARKERS

Commented [DI4]: This section was added to differentiate monuments from markers, place limits on headstone base size, and headstone height, as headstone height interferes with our sprinklers' ability to cover the lawn, creating many dead spots within the Cemetery.

A. Upright monuments and primary headstones are allowed in all sections of the cemetery, but they must not exceed 36 inches in height at their tallest edge. Any monument or headstone that stands above the sod level is classified as an upright stone. Monuments and headstones that are level with the sod are also permitted. The dimensions for monument and headstone bases are restricted; they must not exceed 42 inches in length and 24 inches in width for a single plot. For two consecutive plots, the base length cannot exceed 84 inches while still maintaining the 24-inch width.

1.A plot that has been designated for cremation remains of no more than two people. The Monuments/Markers must be flush with the sod line

B.. If an individual purchased a headstone or marker which exceeds the 36-inch maximum height, that headstone or marker shall be allowed only if written proof is furnished to the sexton showing that the headstone or marker was purchased prior to Month_____ Date_____ Year _____.

C. Permitted Markers or Additional Stones. Any secondary marker must be flush with the sod line. The dimensions of the marker or stone shall not exceed 24 by 12 by six inches. The base upon which it is placed may not exceed 36 by 24 by six inches. A secondary marker, stone, may be permitted if the additional marker or stone identifies a currently unidentified individual within the same burial lot. Stones or markers that identify an individual already identified through another stone or marker within that same burial lot shall be prohibited. The only exception shall be veteran markers. No more than two markers or stones may be permitted in a single burial lot.

D. Materials Permitted. All monuments, headstones, or markers shall consist of granite, bronze, or other durable material approved by the sexton.

E. Authorization. Any individual, family, group, or the like must obtain approval from the sexton prior to the placement of any monument, headstone, or marker

7-6-9: PERPETUAL CARE LOTS:

A. Scope Of Care: The essential perpetual care that the city agrees to give shall consist of care of the cemetery generally, and shall include, but is not limited to, mowing of all lots and graves at reasonable intervals, resodding, seeding and filling in sunken graves,

sodding the surface of the graves to lot level, removing dead flowers and trimming trees and shrubbery when necessary, raking and cleaning the lots and straightening of tilting stones or markers, but shall not include repairing or replacing markers or memorial structures of any nature, except when the need for repair or replacement is directly caused by the city. (1982 Code § 8-262)

B. Contracting For Care:

1. No grave shall be hereafter opened in the cemetery of this city until perpetual care upon the lot where the grave is to be opened shall have been contracted for with the city, or perpetual care thereon paid. Should it be the desire of any person to have a grave opened and the body interred therein and perpetual care shall not have been previously contracted for or paid in full for the lot therein, the person may either pay the full purchase price for perpetual care or enter into a contract wherein payment shall be agreed. (1982 Code § 8-261)

2. The installment contract for perpetual care of, or purchase of a lot with perpetual care, shall provide for collection by the city in event of a default and such collection shall be by civil action, and the defendant therein shall pay cost of collection, together with reasonable attorney fees to the city, and shall also pay interest at the rate of eight percent (8%) per annum upon the past due installments. All installments shall immediately become due upon the default of any of the installments; provided however, that when perpetual care for any lot in the city cemetery or portion thereof, has not been paid for a period of ten (10) years, then, and in such an event, the unused portion of the lot shall thereafter escheat to the city, and the title thereof shall revert to the city, which shall thereafter have the right, option and privilege to sell and dispose of unused cemetery property, as is in this chapter provided, upon condition that the city shall thereafter maintain perpetually without cost of fee the portion of the lot occupied by a grave or graves prior to the date when the remaining property escheated to the city. (1982 Code § 8-261; amd. Ord. 2005-12, 4-6-2005)

3. The city shall have the power to fix, by resolution, a fee from any person now owning a cemetery lot or portion thereof for the annual maintenance and care thereof. (Ord. 2005-12, 4-6-2005)

C. Fund Created; Use:

1. There hereby is established a perpetual care fund according to the laws of the state and this chapter. All funds received from the sale of perpetual care services shall be placed in a special perpetual care fund, invested in compliance with the laws of the state and used for the purposes herein provided.

2. The income from the perpetual care fund shall be used to pay the upkeep and development of the cemetery. (1982 Code § 8-271; amd. 1998 Code)

D. Duties Of Treasurer: It shall be the duty of the city treasurer to keep an accurate record of the perpetual care trust fund account, including investments, to see that the principal portion thereof is properly invested in accordance with resolutions of the city council and the laws of the state. (1982 Code § 8-272; amd. 1998 Code)

E. Investment Income: All income from investments held in the perpetual care fund shall be quarterly credited to the cemetery maintenance fund for use in providing the perpetual care as required herein. (1982 Code § 8-274)

7-6-10: INDIGENTS:

The city council may by resolution designate a portion of the city cemetery to the burial of indigents. Whenever it is made to appear to the mayor and city council by proof submitted to them by the city clerk/recorder that any person who has died does not have an estate sufficient to pay the purchase price of a lot in the cemetery, and that the nearest relative or representative of such deceased person desires to have the body of such deceased interred in the cemetery, the mayor and city council may grant burial space for such deceased person at the request made to him by the city clerk/recorder. (1982 Code § 8-291; amd. 1998 Code)

7-6-11: RULES AND REGULATIONS:

A. Authority To Regulate; Procedure:

1. The city council may promulgate by resolution such additional rules and regulations concerning the care, use, operation and maintenance of the cemetery as it shall deem necessary.

2. The mayor may, from time to time as the city council deems necessary, direct and publish a booklet of rules and regulations for the convenience of the purchasers of lots in the city cemetery. Such rules and regulations shall constitute a part of the terms and conditions under which owners and users may utilize the cemetery and shall form a supplement to this chapter after they have been adopted as official by resolution of the city council.

3. Any changes in the rules and regulations shall be adopted by the city council before such changes shall be official. (1982 Code § 8-237)

B. Lots Sold: Every lot or single grave sold is subject to rules and regulations that have been or may be adopted. The rules and regulations shall be subject to such changes as are found necessary for the protection of lot owners, the remains of the dead and the preservation of the cemetery. (1982 Code § 8-227)

C. Traffic Control:

1. The provisions of the city traffic ordinances relative to the operation of vehicles and conduct of pedestrians shall be in effect in the cemetery, except as herein otherwise modified by this chapter.

2. It shall be unlawful for any person to ride or drive within the city cemetery at a speed greater than five (5) miles per hour. (1982 Code § 8-230)

D. Children: Children under the age of ~~eighteen (18)~~ Sixteen (16) years shall not be allowed in cemeteries unless accompanied by their parents or other adults, except for the purposes of attending authorized funerals or, in the company of adults, placing flowers on

the grave of a deceased relative or friend, or performing any other customary evidence of respect in accordance with their religious principles. (1982 Code § 8-231)

E. Animals: No animal shall be allowed in any cemetery, except in the confines of a vehicle and must be at all times retained within the confines of said vehicle while the vehicle remains in the cemetery. (1982 Code § 8-232)

F. Decorum: Cemetery grounds are sacredly devoted to the interment and repose of the dead. Strict observance of decorum due such a place shall be required of all persons. (1982 Code § 8-233)

G. Errors In Opening Graves: Under no circumstances will the city assume responsibilities for errors in opening graves when orders are given by telephone. (1982 Code § 8-229)

H. Religious And Fraternal Organizations: The city may contract with religious and fraternal organizations to designate a reasonable portion of the cemetery in which burials may be restricted to members of such religious and fraternal organizations and their families. (1982 Code § 8-226)

I. Placement Of Flowers, Plants And Other Items Of Decoration: *All adornments should be placed on the headstone or in a prescribed receptacle within the concrete foundation of the headstone. Items should not be placed on or in the grass surrounding the headstone, thus allowing staff to trim and edge without incident or movement of items. Shepard hooks are allowed but are restricted to one per headstone. Adornments, including but not limited to potted plants, flags, floral wreaths, and flowers in vases are allowed, but will be removed without notice by cemetery employees when they become withered, discolored, torn, broken or vandalized.*

J. Holidays: The city reserves the right to remove all flowers, plants or other items of decoration from the city cemetery grounds after seven (7) calendar days following any holiday or at such earlier time and/or other date if said flowers, plants or other items of decoration have died or become broken. The owner of all such flowers, plants or other items of decoration shall be responsible to remove the same within the above time periods if the owner desires to preserve such items; otherwise, all such items will be removed and disposed of by cemetery personnel. ~~The city shall post notice of the date following each holiday on which it shall remove all flowers, plants and other items of decoration.~~ (Ord. 2002-14, 12-18-2002)

K. *Temporary memorials: Temporary memorials, including but not limited to potted plants, flags, floral wreaths and flowers in vases, will be removed without notice by cemetery employees when they become withered, discolored, torn, broken or vandalized. Funeral flowers will be allowed to remain for three (5) business days, after which cemetery employees may remove them based on the above criteria. Other temporary memorial items such as glass containers, wires, sticks, iron rods, pegs, ceramic pots or other containers that may pose safety hazards will be removed by cemetery employees.*

Commented [DI5]: Placement of Flowers, plants, and other items of decoration is limited to within the headstone base, as well as notifying the family that once these items become withered, discolored, torn, or broken, the staff has the right to remove them. This was allowed in the existing code under item J

Commented [DI6]: We set the header to 'holidays,' but the rest of the text is what is in the code now. We crossed out the requirement to post a notice on the date following each holiday stating that staff would remove the flower/decoration, because the signage we post each year would get stolen and create a problem for staff. The way we have it now allows these items to be left longer until they weather, discolor, or become a maintenance issue.

Commented [DI7]: We added item K, Temporary memorials, to let the family know that after (5) business days, once the flowers, wreaths, and other such decorations start to fade, discolor, become broken, or become a maintenance issue, they will be removed.

7-6-12: CARE AND MAINTENANCE; RIGHT TO ENTER:

The city reserves the right to enter upon any grave and to perform all work necessary for the care and upkeep of all lots and graves in its cemeteries. (1982 Code § 8-228)

7-6-13: UNLAWFUL ACTS:

A. Injury To Property: It shall be unlawful:

1. For any person to tie or attempt to tie any horse, animal or motor vehicle to any monument, gravestone, tablet, marker, tree, shrub, fence or enclosure on the premises of the cemetery for the purpose of injuring, defacing or attempting the removal of same.

2. For any person to injure, deface, break, destroy or remove any headstone, tombstone, monument, tree, shrub or any other property in the cemetery. (1982 Code § 8-234; amd. 1998 Code)

B. Landscaping By Private Persons:

1. Except as provided by the rules and regulations of the city council, it shall be unlawful for any person to erect or maintain any fence, corner post, coping or boundary of any kind, to plant any vegetation upon any lot*/Burial plot* or lots*/Burial plots* lot or lots, street, alley or walk in the cemetery, ~~except as set forth in subsection B2~~ of this section, or to grade the ground or land thereof. The cemetery sexton shall, whenever required, furnish the true lines of any lots according to official survey, shall prevent and prohibit any markings of the same except by official landmarks, and shall prevent and prohibit any grading thereof that might destroy or interfere with the general slope of the land

2. ~~It shall be permitted to plant hard stem plants within the actual headstone area with a maximum of two (2) plants per headstone. Plants shall be planted no more than six inches (6") away from the headstone. If the~~ *Plants that existed from the date of this passing Month_____ Day_____ Year_____ will be able to remain*, but if plants remain unkempt for one year or grow too large, they may be removed by cemetery personnel. The city retains the right to determine when plants have grown too large. (1982 Code § 8-235; amd. 1998 Code; Ord. 2002-14, 12-18-2002)

C. Placement Of Markers: It shall be unlawful for any person to erect, place or cause to be placed any marker or monument on any lot in the cemetery in violation of the rules and regulations promulgated by the city council regarding the placement, construction and design of all such markers. (1982 Code § 8-236)

7-6-14: PENALTY:

Any person violating any provision of this chapter shall be guilty of a class B misdemeanor and upon conviction thereof, subject to penalty as provided in section 1-4-1 of this code. (1998 Code)

Commented [DI8]: We have eliminated the ability to plant around the exterior of the base (which is allowed within the base) due to maintenance issues. Still, we do allow the existing plants to stay, but we set a time. As you can see, those who have planted the live plants are supposed to maintain them, 98% don't leave it up to the staff.

Vacation rentals in Detached Accessory Dwelling units in residential zones in LaVerkin City.

I have serious concerns about allowing short term rentals (29 days or less) in DADUs in LaVerkin City.

One of LaVerkin's most serious challenges right now is a marked lack of affordable housing. There is a financial disincentive for builders to make smaller houses. LaVerkin is attempting to create a R – 1 – 6 zone hoping that smaller lots will result in smaller and more affordable houses. A better solution would be to encourage residents to offer detached Accessory Dwelling units as long term rentals, or "mother-in-law" housing for family or others who are struggling with affordability. Allowing those DADUs to be vacation rentals financially disincentivizes homeowners from making them available for long term rentals and will exacerbate not alleviate our affordable housing crisis.

Having back yards in residential zones become commercial spaces will adversely affect the nature of the neighborhood. No matter how careful the homeowners are about screening and policing their guests, there is a difference between how we treat property and neighbors in a short term "hotel room" and how we treat them where we live.

Having vacation units in back yards will increase the resale value of the property which will increase assessed value of the property around it and neighbors, many of whom are on fixed incomes will pay more in property taxes.

Vacation properties cause dramatically more infrastructure impact. In commercial zones business owners pay for that increased impact through higher taxes and fees. In residential zones other citizens who get no financial benefit will have to pay for the increased impact on utilities and services.

If LaVerkin City proceeds to allow vacation rentals in residential zones we will create a situation from which we cannot go back, profiting the few affluent enough to invest in them at the expense of the rest of the residents. I think it most unwise and urge the city council to carefully consider the unforeseen ramifications of opening this particular pandora's box.

Outlook

Upcoming County fair and Your City

From Ruffin Judd <ruffinjudd=gmail.com@hubspotstarter.hs-send.com>
Date Mon 12/22/2025 2:16 PM
To Kyle Gubler <kyle@laverkin.gov>

Hello Kyle,

Dear Members of the City Council,
We hope you're all doing well. Our names are Ruffin Judd and Brandon Ipson, and we're working with the Washington County Fair to strengthen its connection with our local communities and cities. We're writing to request a brief spot on one of your January or first-quarter city council agendas.
The Washington County Fair isn't just another event—it's the longest-running community event in our area, with roots going back to 1860, and it now generates an estimated **$5.8 million in economic impact** for our county. It's a huge opportunity to showcase your beautiful city, support local families and youth, and highlight the good things happening in your community.
We would love the chance to:

- Share the fair board's expectations for city and community involvement
- Discuss how the City and Fair can collaborate to increase resident participation
- Explore ideas for a city display/booth at the fair
- Coordinate simple, practical ways to get your schools, churches, and local groups involved

We are requesting about 10–15 minutes on an upcoming agenda to walk through these ideas and answer any questions. Our goal is to make participation easy, clear, and beneficial for both the City and your residents.
Thank you for your time and for all you do for our community. We'd be happy to provide any additional information you may need in advance of the meeting.

All the best,

Ruffin Judd
208-351-1413
ruffinjudd@gmail.com

Brandon Ipson
435-669-0332
brandonipson@yahoo.com

Washington County Fair, 5500 West 700 South, Hurricane, Utah 84737

Unsubscribe Manage preferences

Good Evening Ladies and Gentleman on the city council and any citizens,

Today I would like to share with you the Police Departments year end statistics from January 1st, 2025, to December 31st, 2025.

Our officers were either dispatched to or during their duties, initiated and created their own calls for service which totaled 1723 incidents during our calendar year.

2025- 1557 Incidents 800 Citations 1102 Violations Total=1723

2024- 1621 Incidents 736 Citations 924 Violations Total=1756

2023- 1641 Incidents 450 Citations 585 Violations Total= 1757

I have provided you with our top calls for service based on volume and how the call was originally generated.

#1- Animal Calls these calls include animal bites, dead animals in roadway, animal stray and vicious animal calls. Our animal control officers are Taunya Rangel and Steve Marcotte. They both work as part-time officers and respond to calls while maintaining our animal shelter, which includes proactively looking for permanent homes for the dogs. Over the last 4 years we have been awarded the highest achievement for having a No Kill shelter and it is something we want to maintain with your continued support. We had a total of 211 animal involved incidents.

#2- 911 Hang Up calls- Most of these calls result in a person's misdial. That is always a relief for the officer responding. The remainder of the 911 Hang up calls result in an incident where first responders are needed and action is taken by either Police, Fire, Medical or all these emergency services at once. There were 184 incidents originating from 911 Hang ups.

#3-Information calls- These incidents range from a person calling in suspected drug activity, suspected illegal Air BNB, or most recently people traveling to our city to commit crimes. Officers then disseminate the information to our patrol, and we take a proactive approach to verify and create solutions to these calls. There were 123 Information calls for service.

#4- Agency Assist- These types of calls include another agency such as Adult Protective Services, Child Protective Services, Adult Probation and Parole EMS calls where law is asked to respond and any other law enforcement agency that requests our assistance. We generated 100 of these calls for service.

#5 Traffic Offense- These are incidents where vehicles have been stopped and an additional offense has been created such as Possession of illegal substances, No insurance, Warrants attached to a vehicle and or impounds associated with the traffic stop. There was a total of 94 incidents.

It is the constant work of the entire LaVerkin Police Department who have contributed to these statistics where each team member has taken personal responsibility for strengthening bonds and building trust for our community.

If you have any questions or concerns please make our Police Department aware of these issues and we will help.

Thank You.

La Verkin

PROPOSED BOND REPAYMENT SCHEDULE

30 % Loan & 70 % P.F.

PRINCIPAL	$678,000.00	ANTICIPATED CLOSING DATE	December 9, 2025
HARDSHIP GRANT ASSESSMENT FEE	2.00%	FIRST P&I PAYMENT DUE	December 19, 2026
TERM	30	REVENUE BOND	$678,000
NOMIN. PAYMENT	$30,272.65	PRINC. FORGIVE.:	$1,550,000.00

YEAR	BEGINNING BALANCE	DATE OF PAYMENT	PAYMENT		PRINCIPAL	INTEREST	ENDING BALANCE	PAYM NO.
2025	$678,000.00	December 19, 2025	$376.67	*	$0.00	$376.67	$678,000.00	0
2026	$678,000.00	December 19, 2026	$30,560.00		$17,000.00	$13,560.00	$661,000.00	1
2027	$661,000.00	December 19, 2027	$30,220.00		$17,000.00	$13,220.00	$644,000.00	2
2028	$644,000.00	December 19, 2028	$29,880.00		$17,000.00	$12,880.00	$627,000.00	3
2029	$627,000.00	December 19, 2029	$30,540.00		$18,000.00	$12,540.00	$609,000.00	4
2030	$609,000.00	December 19, 2030	$30,180.00		$18,000.00	$12,180.00	$591,000.00	5
2031	$591,000.00	December 19, 2031	$29,820.00		$18,000.00	$11,820.00	$573,000.00	6
2032	$573,000.00	December 19, 2032	$30,460.00		$19,000.00	$11,460.00	$554,000.00	7
2033	$554,000.00	December 19, 2033	$30,080.00		$19,000.00	$11,080.00	$535,000.00	8
2034	$535,000.00	December 19, 2034	$30,700.00		$20,000.00	$10,700.00	$515,000.00	9
2035	$515,000.00	December 19, 2035	$30,300.00		$20,000.00	$10,300.00	$495,000.00	10
2036	$495,000.00	December 19, 2036	$29,900.00		$20,000.00	$9,900.00	$475,000.00	11
2037	$475,000.00	December 19, 2037	$30,500.00		$21,000.00	$9,500.00	$454,000.00	12
2038	$454,000.00	December 19, 2038	$30,080.00		$21,000.00	$9,080.00	$433,000.00	13
2039	$433,000.00	December 19, 2039	$30,660.00		$22,000.00	$8,660.00	$411,000.00	14
2040	$411,000.00	December 19, 2040	$30,220.00		$22,000.00	$8,220.00	$389,000.00	15
2041	$389,000.00	December 19, 2041	$29,780.00		$22,000.00	$7,780.00	$367,000.00	16
2042	$367,000.00	December 19, 2042	$30,340.00		$23,000.00	$7,340.00	$344,000.00	17
2043	$344,000.00	December 19, 2043	$29,880.00		$23,000.00	$6,880.00	$321,000.00	18
2044	$321,000.00	December 19, 2044	$30,420.00		$24,000.00	$6,420.00	$297,000.00	19
2045	$297,000.00	December 19, 2045	$29,940.00		$24,000.00	$5,940.00	$273,000.00	20
2046	$273,000.00	December 19, 2046	$30,460.00		$25,000.00	$5,460.00	$248,000.00	21
2047	$248,000.00	December 19, 2047	$29,960.00		$25,000.00	$4,960.00	$223,000.00	22
2048	$223,000.00	December 19, 2048	$30,460.00		$26,000.00	$4,460.00	$197,000.00	23
2049	$197,000.00	December 19, 2049	$29,940.00		$26,000.00	$3,940.00	$171,000.00	24
2050	$171,000.00	December 19, 2050	$30,420.00		$27,000.00	$3,420.00	$144,000.00	25
2051	$144,000.00	December 19, 2051	$30,880.00		$28,000.00	$2,880.00	$116,000.00	26
2052	$116,000.00	December 19, 2052	$30,320.00		$28,000.00	$2,320.00	$88,000.00	27
2053	$88,000.00	December 19, 2053	$30,760.00		$29,000.00	$1,760.00	$59,000.00	28
2054	$59,000.00	December 19, 2054	$30,180.00		$29,000.00	$1,180.00	$30,000.00	29
2055	$30,000.00	December 19, 2055	$30,600.00		$30,000.00	$600.00	$0.00	30
			$908,816.67		$678,000.00	$230,816.67		

*Interest Only Payment

La Verkin Community Survey – Results

The survey was available as a paper version and an online version. Eleven people filled out the paper survey and 6 took the online version. While this is not a representative number, several situations may contribute to why the responses were few. When people are satisfied with their living situation, they are less likely to respond; lives are busy and it was not a priority; they live in a stable neighborhood; or a number of other reasons.

The results are informative about particular items the participants are concerned about or supportive about. It is clear that among those who took the survey parks, walking, and community values are important. As you review the comments, they may inform or support some of the direction the city is taking.

Your Background

Please indicate your age group

0 – Under 12 years old

0 – 12-17 years old

0 – 18-24 years old

5 – 25-34 years old

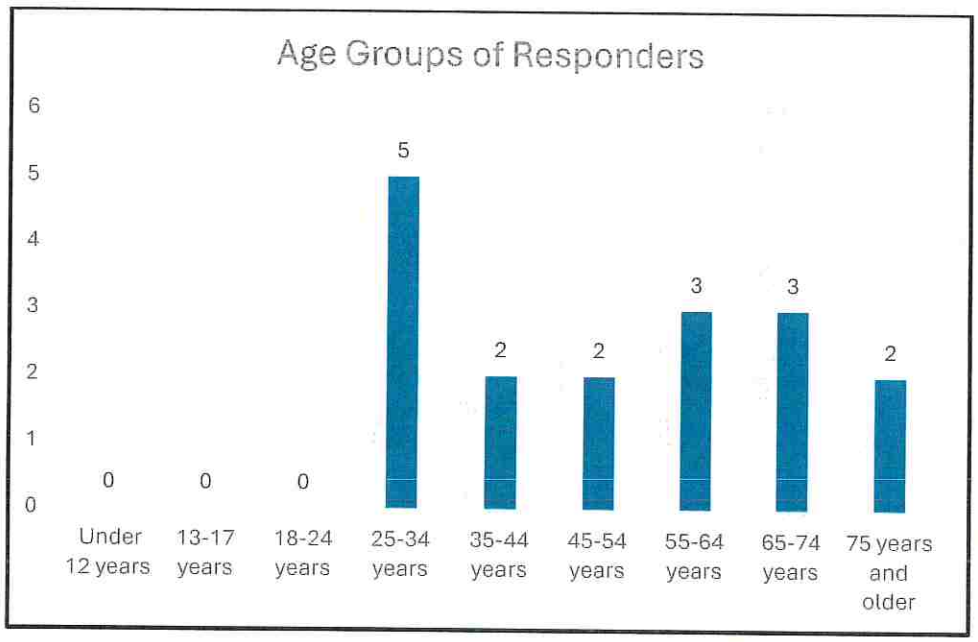
2 – 35-44 years old

2 – 45-54 years old

3 – 55-64 years old

3 – 65-74 years old

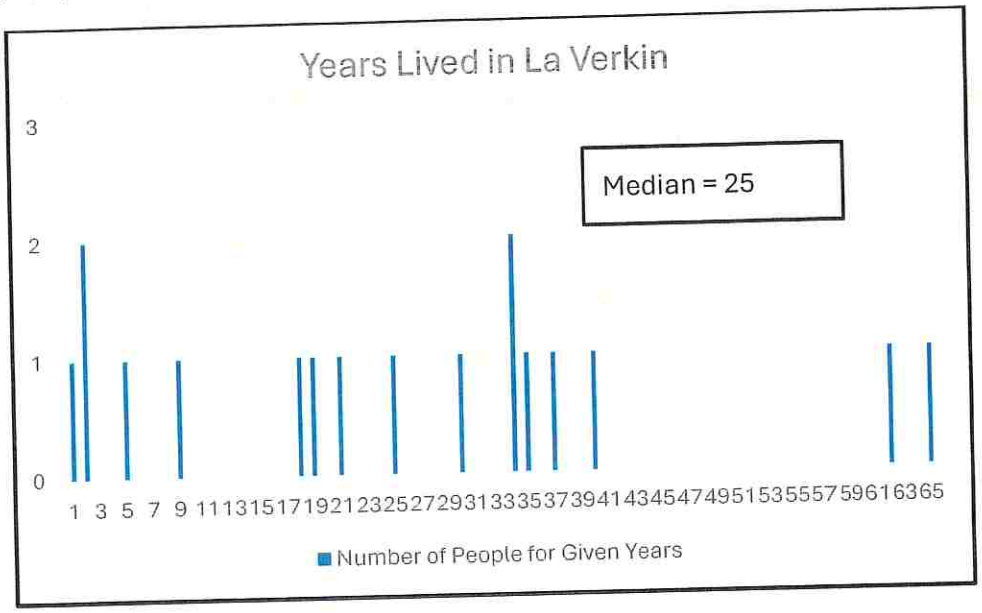
2 – 75 years or older



Female – **9** Male – **6**

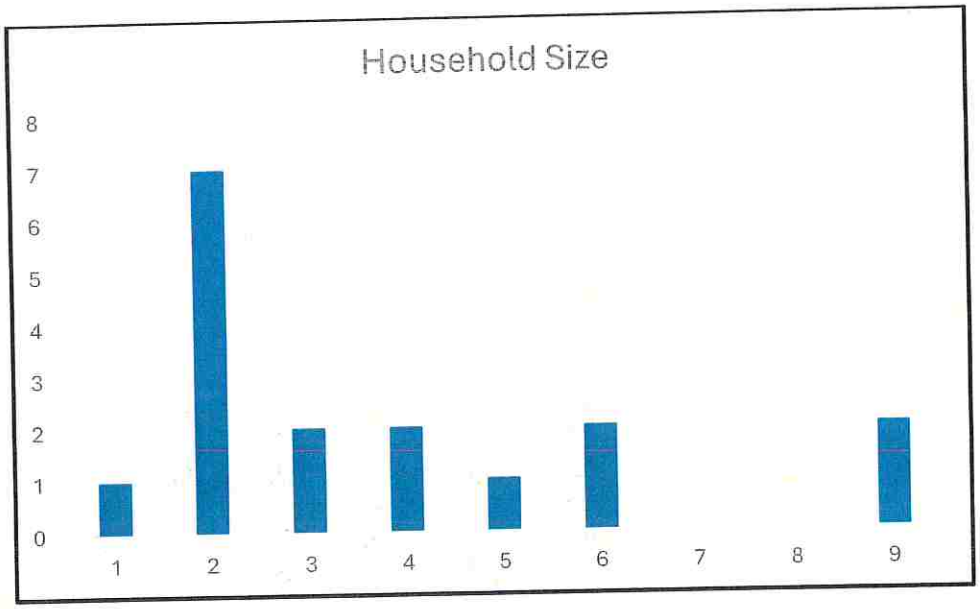
How many years have you lived in La Verkin?

25, 18, 21, 9, 5, 2, 19, 65, 40, 0.5, 37, 30, 2, 34, 34, 62



Number of people in your household:

9, 2, 6, 2, 2, 2, 5, 1, 3, 2, 4, 6, 9, 3, 2, 2, 4



Which of these describes your personal annual income?

0 – $0

0 – $1 to $9 999

0 – $10 000 to $24 999

1 – $25 000 to 49 999

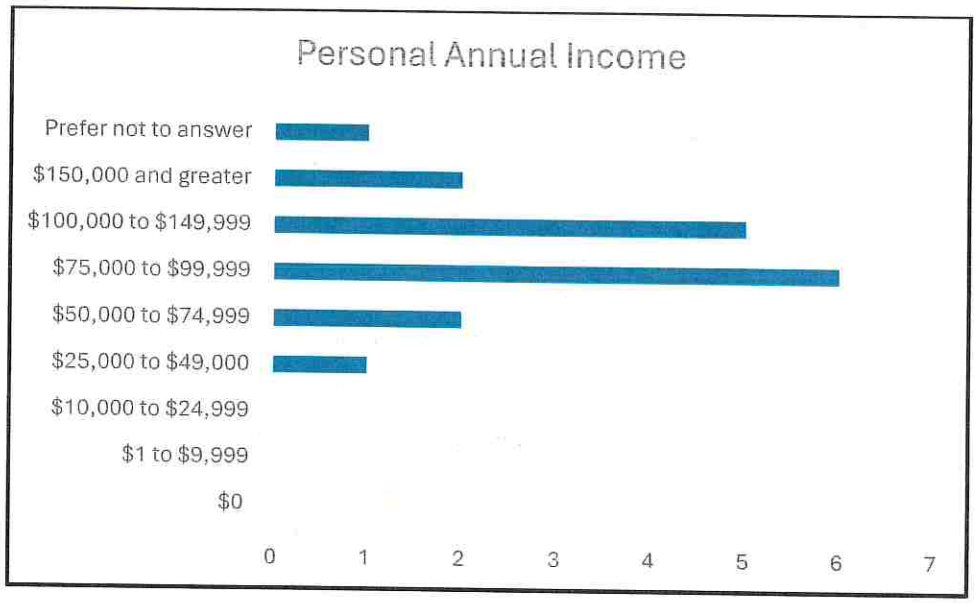
2 – $50 000 to 74 999

6 – $75 000 to 99 999

5 – $100 000 to 149 999

2 – $150 000 and greater

1 – Prefer not to answer



Please indicate your current living and employment situation *(select all that apply)*

0 – Single

11 – Couple

8 – Household with children

12 – Full-time resident

0 – Part-time resident

7 – Local year-round employment

2 – Commute to year-round employment

0 – Seasonal worker

2 – Business owner

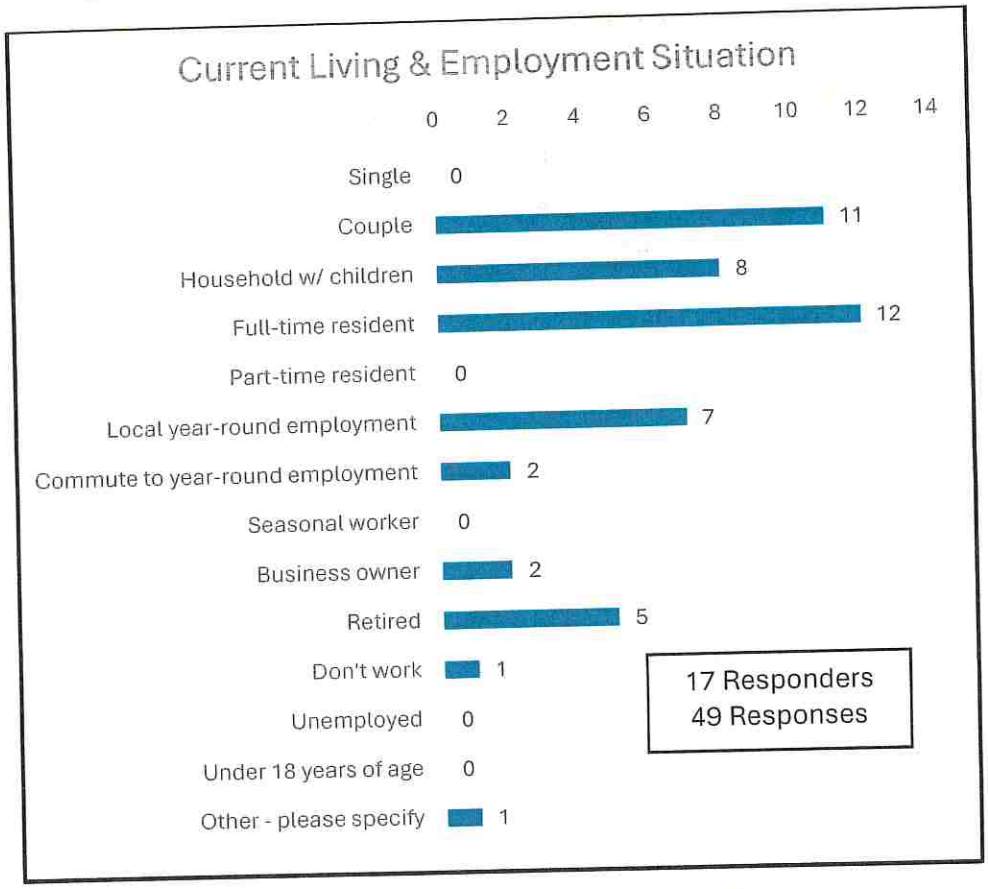
5 – Retired

1 – Don't work

0 – Unemployed

0 – Under 18 years of age

0 – Other – please specify



Housing Questions

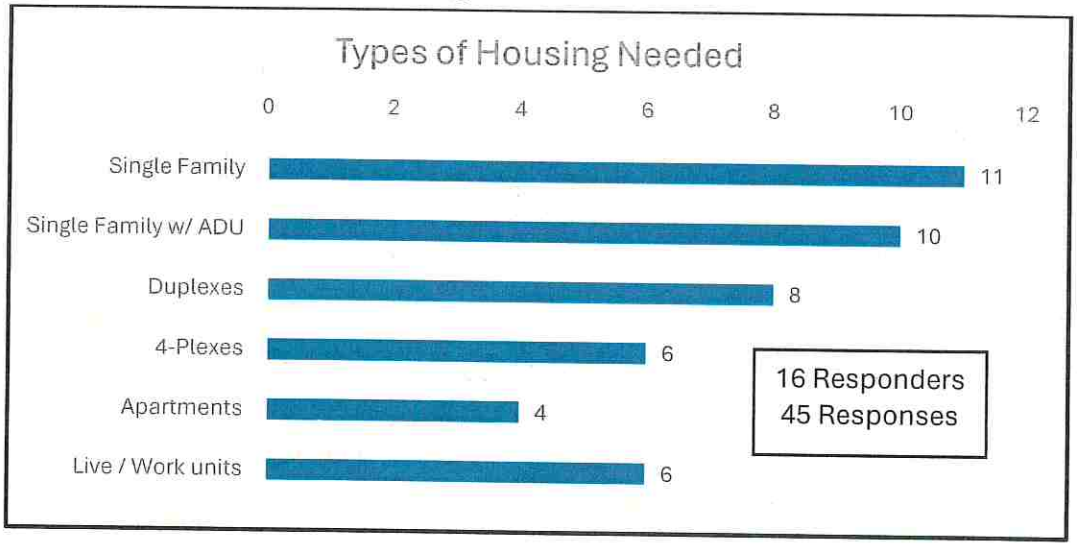
Housing is essential for all residents of La Verkin. Housing is a key issue for most communities, the State of Utah and the nation. Studies have shown that people opposing housing options which are different from their own over that past several decades, is the main reason there is a shortage of housing now. Please consider review the displays about housing and answer the following questions:

What types of housing do you think La Verkin needs? *(Check all that apply)*

11 – Single family homes
10 – Single family homes with an Accessory Dwelling Unit (ADU)*
8 – Duplexes
6 – 4-plexes
4 – Apartments complexes
6 – Live / Work units

**ADU – a secondary, residential unit on the same lot as the primary single-family home. It can be within the existing structure, attached to the primary residence, or a separate, detached structure. It is smaller than the primary residence.*

- *We need a mix of all – well managed*

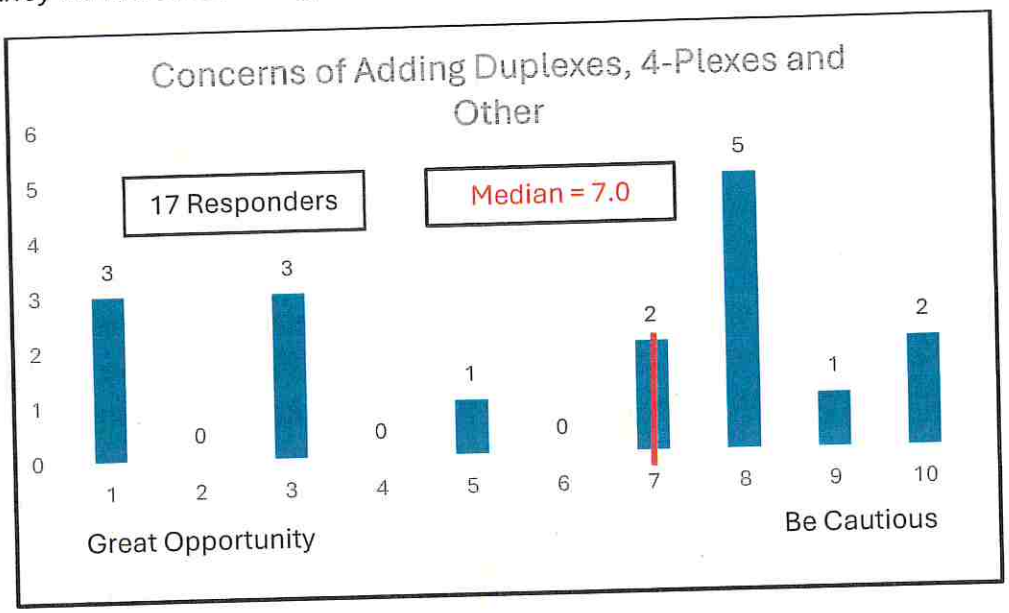


What do you think about adding duplexes, four-plexes and other types of housing in the community?

1	2	3	4	5	6	7	8	9	10
3		**3**		**1**		**2**	**5**	**1**	**2**

Great opportunity <----------> Be cautious

- *We need to be careful but we are also becoming a retirement community.*
- *If they can be well managed.*

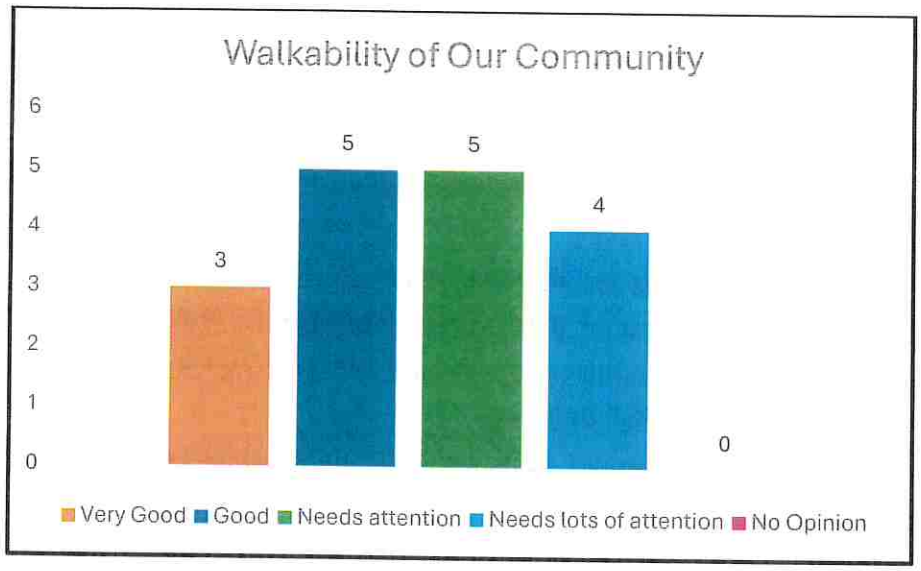


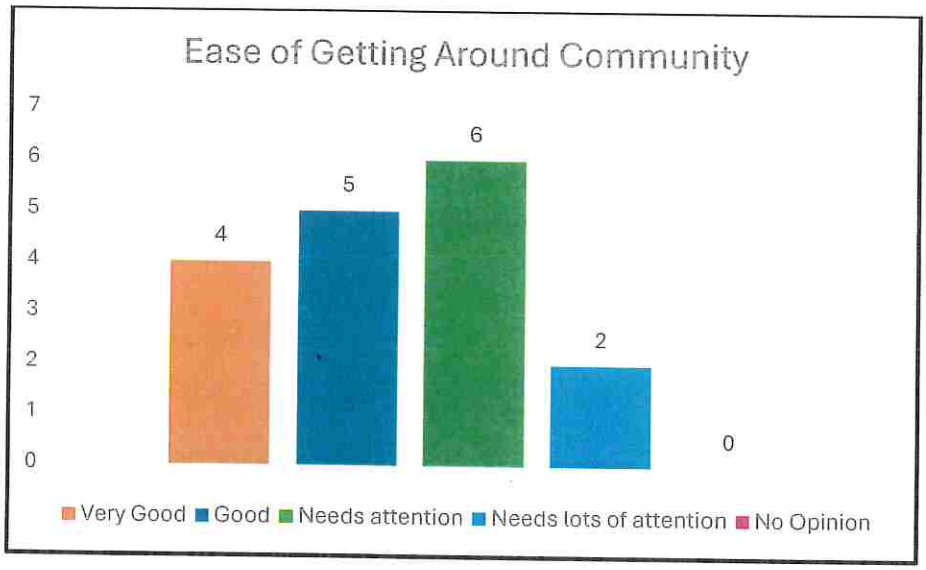
Walkable Community

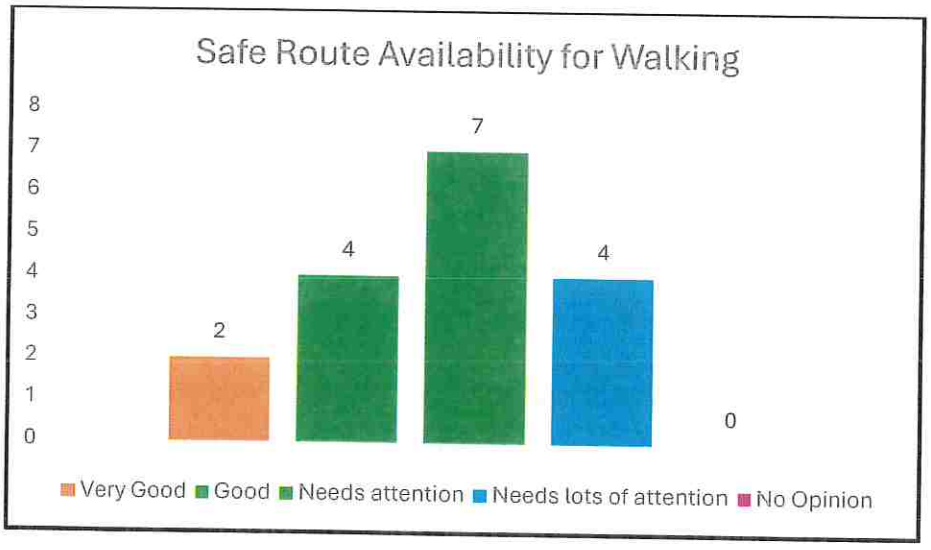
How would you rate the following in La Verkin: *(Rate each one independently)*

A – Very Good; B – Good; C – Needs Attention; D – Needs Lots of Attention; N – No Opinion

	A	B	C	D	N
Walkability of our community	3	5	5	4	
Ease of getting around community	4	5	6	2	
Safe route availability	2	4	7	4	


Walkability of Our Community
6
5
4
3
2
1
0
3
5
5
4
0
Very Good
Good
Needs attention
Needs lots of attention
No Opinion


Ease of Getting Around Community
7
6
5
4
3
2
1
0
4
5
6
2
0
Very Good
Good
Needs attention
Needs lots of attention
No Opinion


Safe Route Availability for Walking
8
7
6
5
4
3
2
1
0
2
4
7
4
0
Very Good
Good
Needs attention
Needs lots of attention
No Opinion

What improvements would you suggest for improving the walkability of La Verkin?

- *Better sidewalks in areas of the city that are well developed. (Or sidewalks added in areas where they are missing entirely.*
- *More and wider sidewalks – connecting spaces with good sidewalks – Pet containment*
- *Depends on where you go, but some lights up on S. Valley View.*
- *Bike lanes (so bikes are not on sidewalks); crosswalks – lit with signals – along SR9; clearing sidewalks, especially along agricultural land; Recourse [liability] to owners – off leash dogs are a HUGE deterrent*
- *More concentrated downtown; shop, restaurants, activities in the same area.*
- *Ped over passes*
- *Xings of SR9*
- *None*
- *Filling sidewalk gaps and improving roadways that are too narrow.*
- *Resolve the pit bulls and other dogs on the loose regularly. Add more sidewalks.*
- *Possibly more lights on State Street. (By Zion Hot Springs.)*
- *More lights at intersections on state street 300 south particularly*
- *Work on downtown walkability*

Parks & Recreation

The City has a number of parks and trails. The following questions are to determine your knowledge of them and address features that you enjoy or would like to see or improve.

Which of the following parks and recreation facilities have you ever used?

16 – Confluence Park

4 – Crescent Park

11 – La Verkin Overlook Trail

12 – Power Plant Park

9 – Rim to River Trailhead

10 – Riverwood Park

8 – Vintage Park

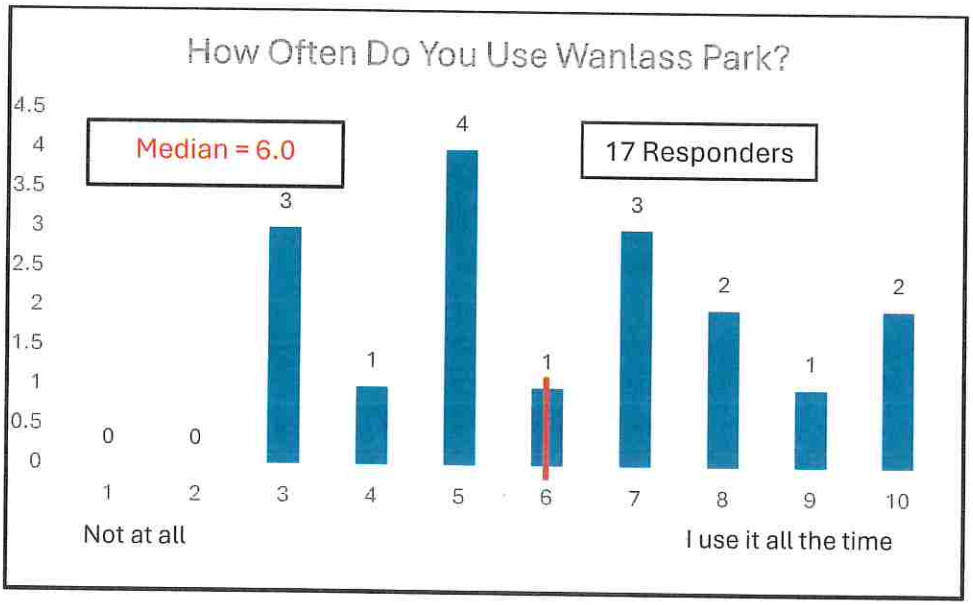
17 – Wanlass Park

5 – Zion View Estates Park

How often do you use Wanlass Park (by the Fire Station)? *(Circle one)*

1	2	3	4	5	6	7	8	9	10
		3	**1**	**4**	**1**	**3**	**2**	**1**	**2**

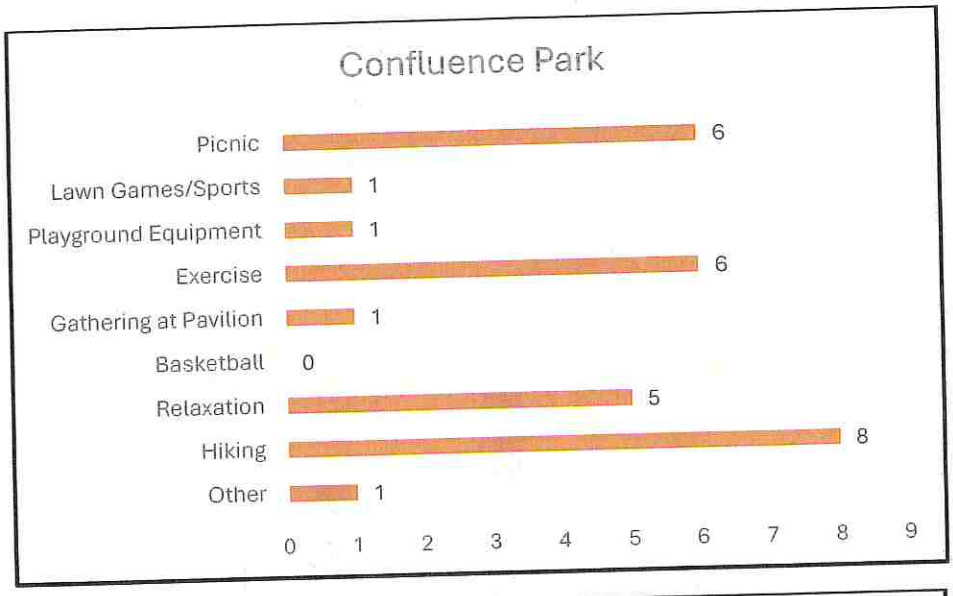
Not at all ←----------→ I use it all the time

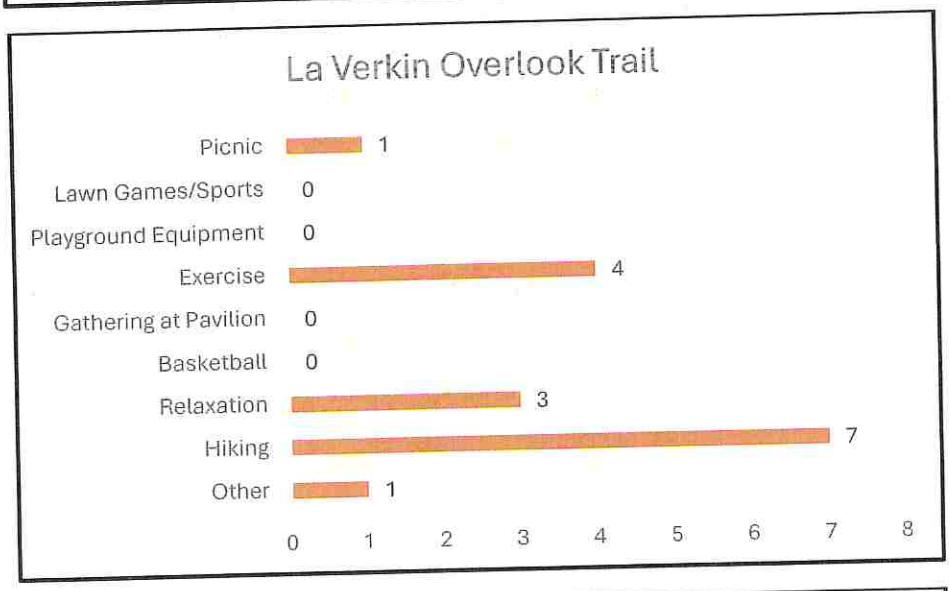


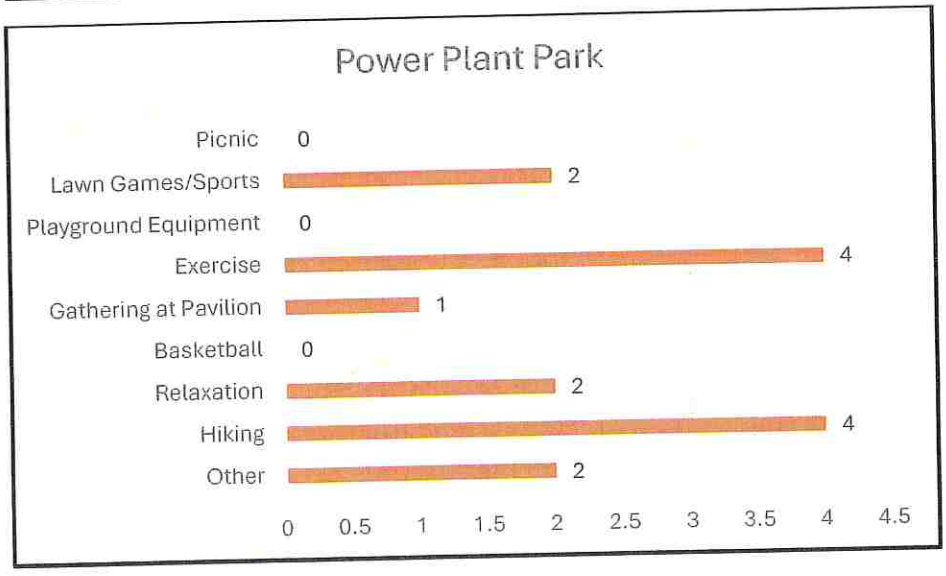
What activities do you do/participate in and at which park? *(Mark or add all that apply)*

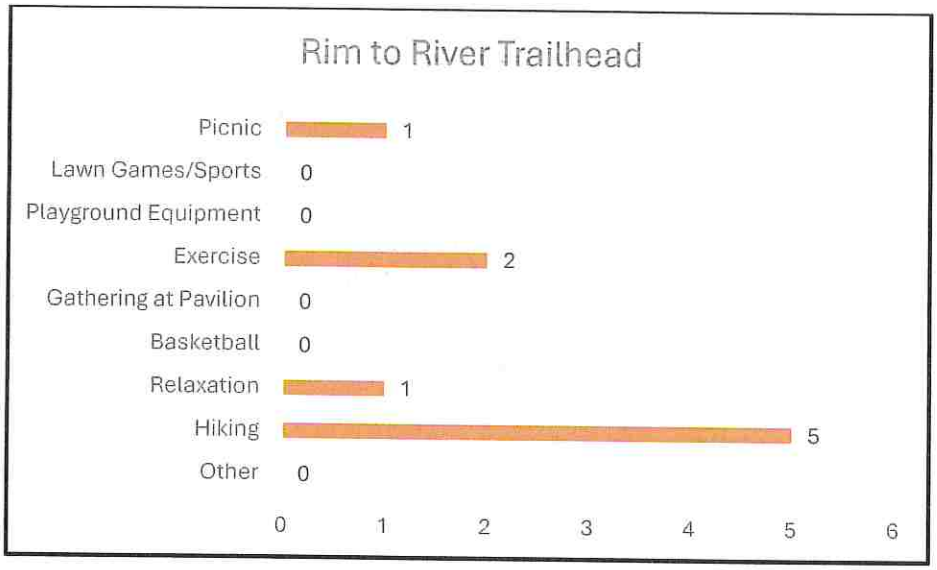
	Picnic	Lawn Games/Sports	Playground equipment	Exercise	Gathering at Pavilion	Basketball	Relaxation	Hiking	Other (please list)
Confluence Park	6	1	1	6	1		5	8	Dog walking
Crescent Park									
La Verkin Overlook Trail	1			4			3	7	Dog walking
Power Plant Park		1		4	1		2	4	Dog walking, *
Rim to River Trailhead	1			2			1	5	
Riverwood Park	1	2			2		2		
Vintage Park			3						
Wanlass Park	10	8	9	4	13	3	6		Birthdays
Zion View Estates Park			1			1			

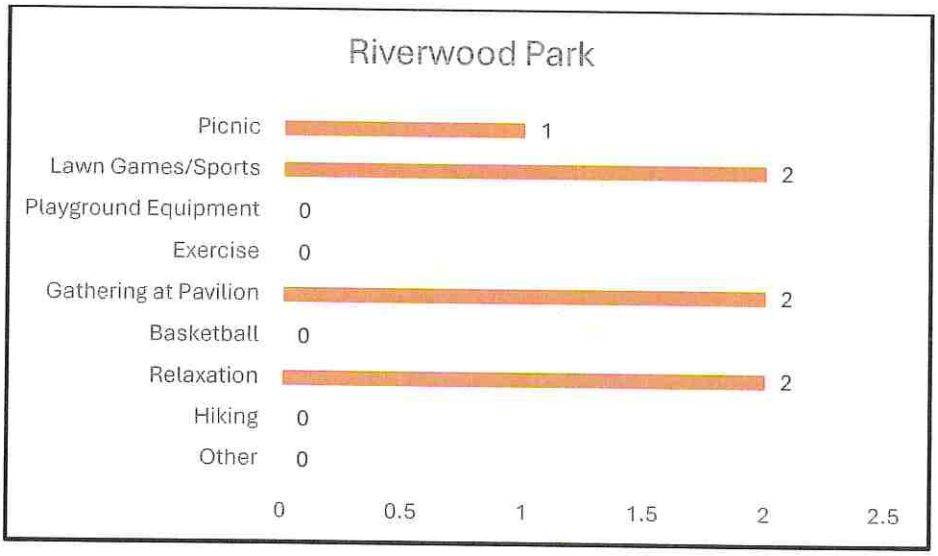
- **It's a dog park – No covers/tables playground*

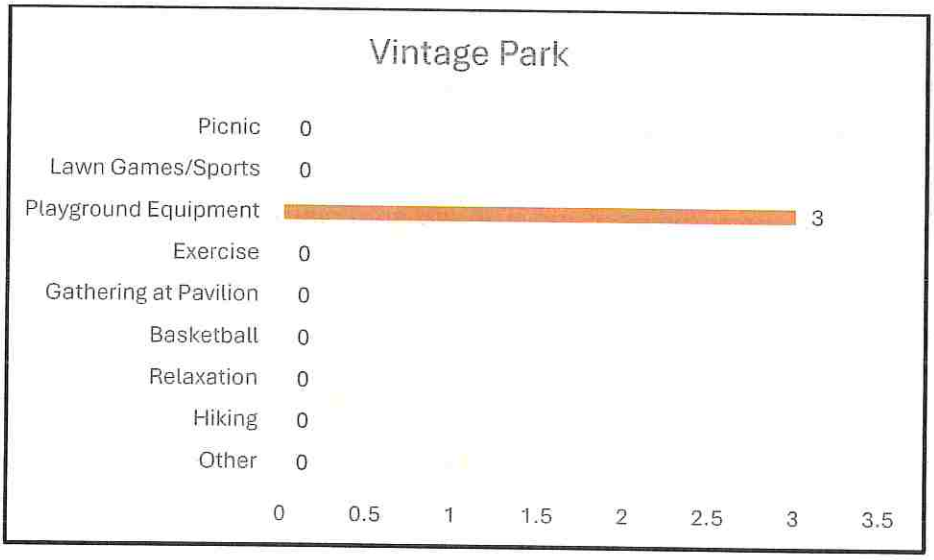

Confluence Park
Picnic 6
Lawn Games/Sports 1
Playground Equipment 1
Exercise 6
Gathering at Pavilion 1
Basketball 0
Relaxation 5
Hiking 8
Other 1
0 1 2 3 4 5 6 7 8 9

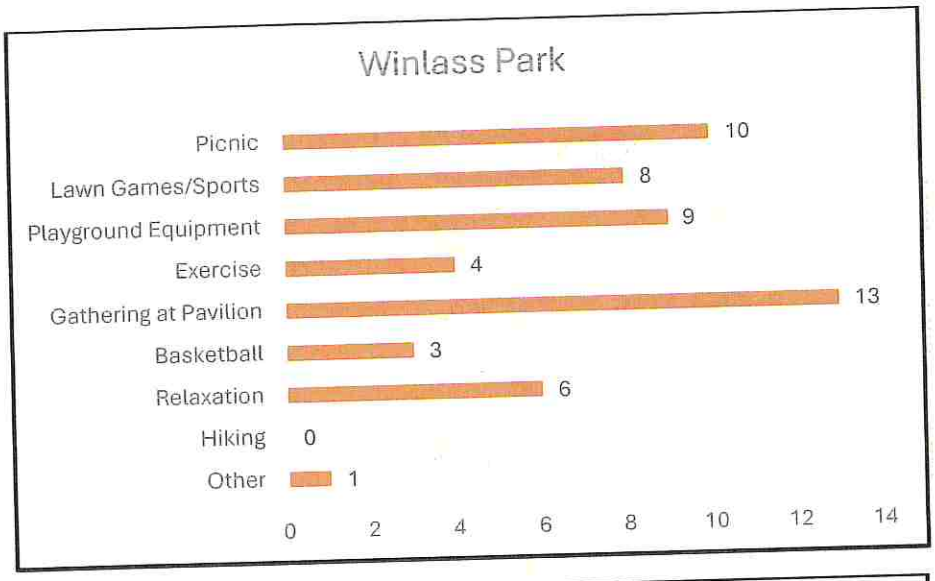

La Verkin Overlook Trail
Picnic 1
Lawn Games/Sports 0
Playground Equipment 0
Exercise 4
Gathering at Pavilion 0
Basketball 0
Relaxation 3
Hiking 7
Other 1
0 1 2 3 4 5 6 7 8

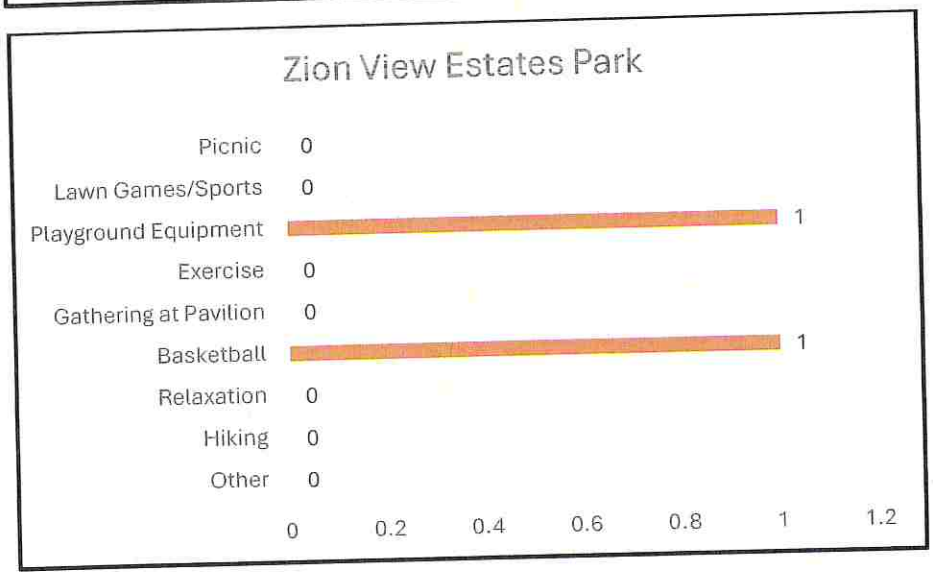

Power Plant Park
Picnic 0
Lawn Games/Sports 2
Playground Equipment 0
Exercise 4
Gathering at Pavilion 1
Basketball 0
Relaxation 2
Hiking 4
Other 2
0 0.5 1 1.5 2 2.5 3 3.5 4 4.5


Rim to River Trailhead
Picnic 1
Lawn Games/Sports 0
Playground Equipment 0
Exercise 2
Gathering at Pavilion 0
Basketball 0
Relaxation 1
Hiking 5
Other 0
0 1 2 3 4 5 6


Riverwood Park
Picnic 1
Lawn Games/Sports 2
Playground Equipment 0
Exercise 0
Gathering at Pavilion 2
Basketball 0
Relaxation 2
Hiking 0
Other 0
0 0.5 1 1.5 2 2.5


Vintage Park
Picnic 0
Lawn Games/Sports 0
Playground Equipment 3
Exercise 0
Gathering at Pavilion 0
Basketball 0
Relaxation 0
Hiking 0
Other 0
0 0.5 1 1.5 2 2.5 3 3.5





What changes or improvements would you like to see at Wanlass Park?

- *Better covered seating closer to the playground to watch kiddos!*
- *Finished parking – improved facilities – more sports courts*
- *Approved city plan would be great*
- *I would like to see a dog park and shaded area over playground*
- *Attention to neighbor's off leash dogs; remove trucks/for sale vehicles from adjacent parking (feels unsafe)*
- *More shade, park tables, pickleball courts*
- *More sitting benches*
- *Maintained bathrooms and cleaner picnic tables.*
- *More shade and better upkeep. The park needs to be better taken care of and I would like to see a shade added to the playground.*

- *Usable bathroom facilities.*
- *More gathering areas with picnic tables, shade, bathrooms*
- *Pickleball courts*

Which City events do you attend?

9 – Easter Egg Hunt

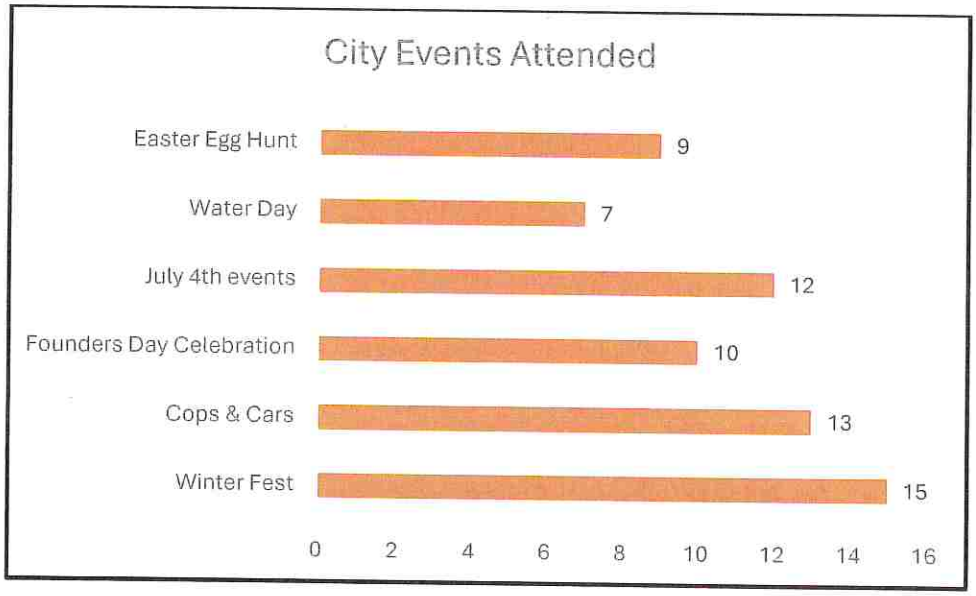
7 – Water Day

12 – July 4th events

10 – Founders Day Celebration - July 24th

13 – Cops & Cars

15 – Winter Fest



Are there any changes to the events that you would like to see?

- *No, they are all wonderful!*
- *Increase ability to continue to grow and improve*
- *More advertising, especially for Cops and Cars*
- *No*
- *I enjoy the events and have liked seeing them grow and change. I would like to see them keep growing.*

Are there any other events or community programs you would like to see?

- *A local storytime group would be wonderful. The Hurricane Libraries are so busy!*
- *The Halloween event a couple years ago was a lot of fun.*

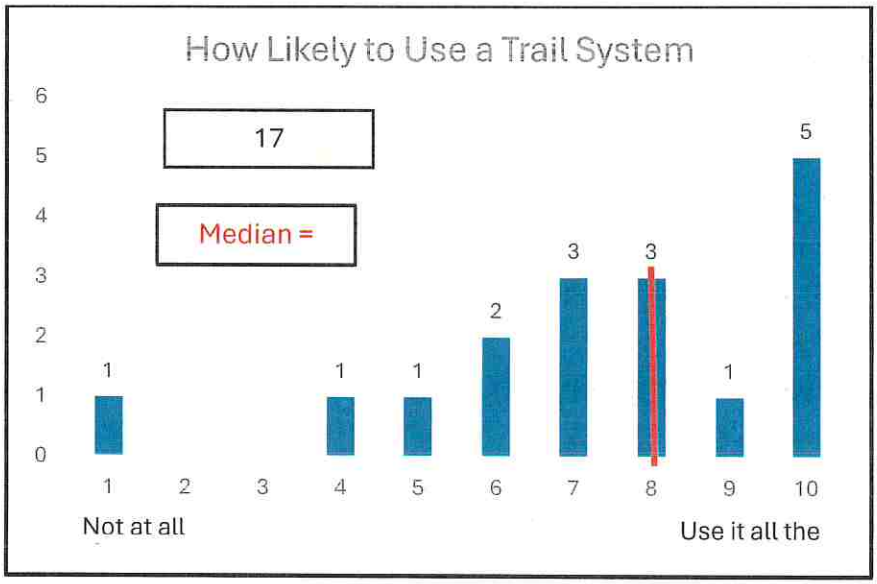
- *Not at this time*
- *I would like other programming at parks that encourage families to interact and increase our sense of community.*
- *Doing good!*

TRAILS can provide pedestrian and bicycle access where the users are generally separated from vehicular traffic. They contribute to walkability, safety and mobility. They are a part of Active Transportation. Trails often encourage visitors to stay and explore a community.

How likely would you be to use a trail system? *(Circle one)*

1	2	3	4	5	6	7	8	9	10
1		**3**	**1**	**1**	**2**	**3**	**3**	**1**	**5**

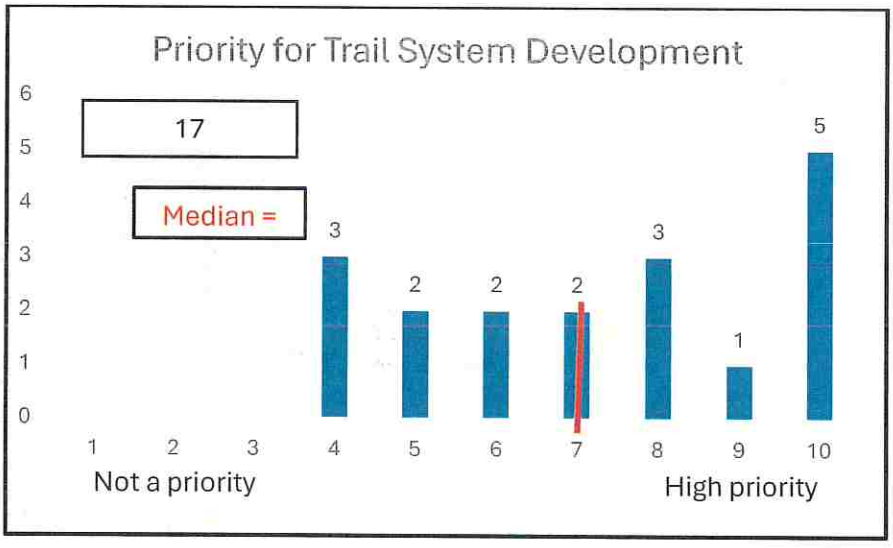
Not at all ←----------→ I would use it all the time



How much priority should development of trails have? *(Circle one)*

1	2	3	4	5	6	7	8	9	10
			3	**2**	**2**	**2**	**3**		**5**

Not a priority ←----------→ High priority



Public Safety

La Verkin's Public Safety Department provides police, victim advocacy, animal control, and code enforcement services. La Verkin is also part of the Hurricane Valley Fire District.

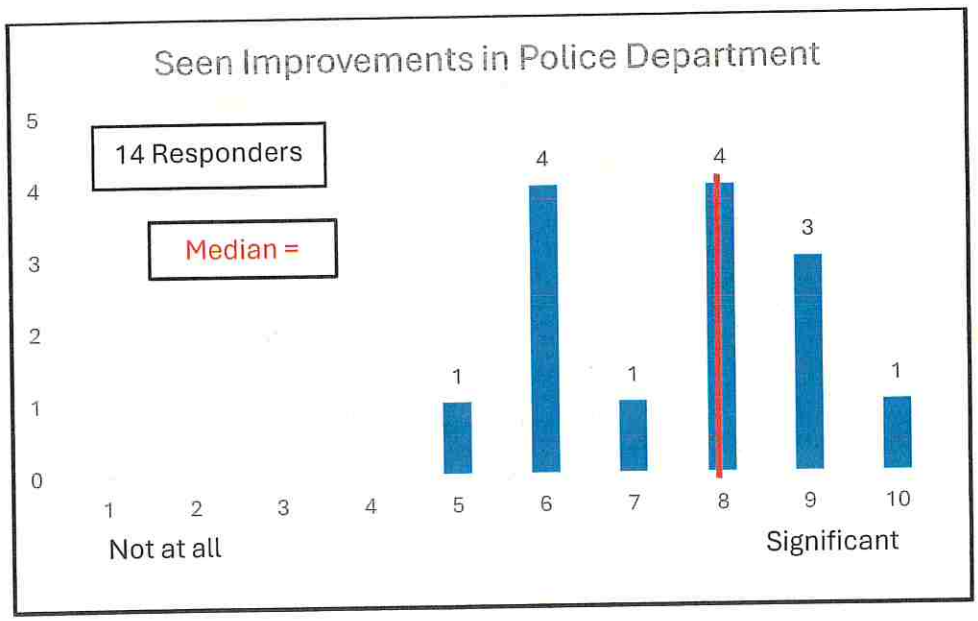
What are some things that you believe are criminal in nature that police can do a better job of addressing?

- *Drug use at school after hours, I've picked up several wrappers and other paraphernalia*
- *OFF leash dogs*
- *Nuisance, code, drug traffic*
- *Dumping in street?*
- *From our vantage point they seem watchful. Good to see them in neighborhood.*
- *None – they are doing awesome!*
- *Unleashed pets,*
- *Keeping drugs out of area, protecting neighborhoods from criminal activity*

Have you seen improvements within your city police department in the last couple of years? *(Circle one)*

1	2	3	4	5	6	7	8	9	10
				1	**4**	**1**	**4**	**3**	**1**

Not at all ←----------→ Significant improvements



What would you like to see from your city police department?

- *A little further aide at the crosswalks for the elementary school. The crossing guard's time feels a little short!*
- *My limited interactions have all been good*
- *They do a pretty good job overall –*
- *Quick response to off leash dog situations, particularly on Sunday; more traffic stops for speed on State St also esp. on Sunday*
- *Community patrolling*
- *Stay vigilant. Outside druggers and criminals seem to think La Verkin an easy target or place to hide out.*
- *Enforcement*
- *Continue protecting the community*
- *They do good work. I appreciate what they do.*
- *Keep up the good work!*
- *Keeping criminal elements out of area*

Infrastructure

Infrastructure includes buildings, roads, parks, and water and wastewater conveyance systems that enable the city to carry out activities essential to providing city services.

Are there areas where you would suggest expansion, improvement, or repair of city infrastructure?

- *Some residential roads have existed a long time with many homes and no sidewalks. I'd start there!*
- *Water system in Zion View Estates is constantly under repair. Can't the system be replaced once and for all?*
- *Improved roads and sidewalks. An improved Main Street area for increased community.*
- *Walkable State Street & Downtown*
- *Park update would be nice, sidewalks all down Main Street, maintain/update current streetlights*
- *Sidewalk maintenance on State St*
- *More complete sidewalks*
- *No*

- *I think there are road that could be better maintained and repaired. Sidewalks too.*

Dark Sky

Are you aware of La Verkin's Night Sky ordinance and city code related to lighting?

YES: **9** NO: **7**

What modifications have you made to lighting on your property to reduce that amount of glare and at the same time providing for safety?

- *Ours was already in compliance.*
- *Focused lights. Low watt landscape lighting.*
- *Low down lights*
- *Maintain streetlights*
- *All are compliant*
- *The water leak next to 60 E 420 N. There has been an open hole at the meter for over 2 months.*
- *None*
- *Porch light or seasonal holiday lights*
- *None*
- *I turn exterior lights when I turn in.*
- *I don't have any but little sidewalk lights. I don't leave lights on at night*

Is the current ordinance sufficient or would you like to see more?

- *I like what we have.*
- *Better dark skies*
- *Would like to see it advertised more, encourage the community to participate.*
- *The spa has a ton of lighting that stays on all night, unnecessarily.*
- *Sufficient*
- *No*
- *See more*
- *Unsure.*
- *Sufficient*
- *Not sure what ordinance is*
- *It's good!*

Conclusion

What do You Like Most About Living in La Verkin?

- *The people ♡*
- *Good people, good community*
- *The sense of community and the local events.*
- *Size*
- *Small town feel, friendly people*
- *Convenience to work*
- *Small town*
- *Location, people, size*
- *Quiet life, affordable housing, feels like home, friendly people, great school*
- *I love the community feel. I love the rich history of ancestry and hard working pioneer spirit that developed this community.*
- *I love the place and the community. My family has lived here for a long time and I feel very connected here.*
- *I love the fields and open spaces, livestock, gardens.*
- *Quiet peaceful area*
- *Everything*

Comments – is there anything else you would like to add?

- *Keep the Secondary Water running. Improve the water pressure!*
- *I feel whatever helps La Verkin maintain the small town and community feel.*
- *Make active transportation more important. Slow State Street traffic more walkable*
- *Thank you for all you do for us!!*

LAVERKIN CITY & WCWCD

SECONDARY WATER FEASIBILITY STUDY, USER RATE ANALYSIS, IMPACT FEE ANALYSIS & IMPACT FEE FACILITIES PLAN 2025

NOVEMBER 2025

PREPARED BY:

SUNRISE ENGINEERING, LLC.
11 North 300 West
Washington, UT 84780
TEL: 435-652-8450
FAX: 435-652-8416

Paul Andersen, E.I.T.
Project Manager

Blaine Worrell, P.E.
Project Engineer
State of Utah No. 13229751

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Table of Contents

APPENDICES

I. EXECUTIVE SUMMARY

This Secondary Water Feasibility Study evaluates LaVerkin City's existing secondary water system and provides a comprehensive plan for meeting projected demands through 2044. In coordination with the Washington County Water Conservancy District (WCWCD), the Study also explores opportunities for shared storage and the beneficial use of reuse water generated at the Confluence Park Water Reclamation Facility (CPWRF).

LaVerkin City (LaVerkin, the City) currently operates a pressurized irrigation system without any storage capacity. To improve water quality, pressure reliability, and system redundancy, a new shared-use pond is recommended. This facility would serve both LaVerkin City and WCWCD, with a recommended storage volume of 7.84 million gallons (23.5 acre-feet). This Study identified three alternative sites where a pond might feasibly be located. The preferred location is near Cottonwood Hollow Phase 5, as this site offers the largest storage volume and construction feasibility.

To integrate the new pond and improve operational serviceability, the following improvements are recommended to WCWCD:

i) LaVerkin Pond & Pipeline Project

Which consists of the following components:

- Extend WCWCD's 15-inch HDPE fill line north of 500 North to the pond; transitioning to 18-inch diameter north of 500 N.
- Construct a new 24-inch outlet transmission line from the pond to 500 North, and tie-in to the City's 15-inch trunkline along 100 East.
- Construct a booster pump station to raise system pressure by ~80 feet (35 psi) where gravity pressure is insufficient, with capacity up to 3,590 gpm.

ii) LaVerkin Transmission Line Improvements

Which consists of the following components:

- Repurpose an existing, unused 10-inch culinary line crossing under State Street for the secondary system.
- Replace an existing 6-inch pipe with a 10-inch trunkline from the cemetery crossing to 500 N.
- Extend the 10-inch trunkline along 500 N to 360 West and south along 300 West to 200 North.
- Install a new 8-inch looping line to connect 360 West to 600 North.

Other needed improvements to LaVerkin's secondary water distribution system were also identified and recommended to LaVerkin City. These include:

iii) LaVerkin City In-Town Replacements

Which consists of:

- Relocate irrigation lines in back lots to City street rights-of-way.

iv) 100 E Transmission Line Improvement

Consisting of:

- Replacement of a 15-inch aging plastic irrigation pipe trunkline along the length of 100 E.

The Study includes a detailed financial analysis to determine the user rates required to fund ongoing operation and maintenance of the system, including the future booster pump station. Based on projected 2026 expenses and system growth, the average secondary water user rate must increase by approximately 88% to ensure full cost recovery and maintain system viability.

Revenue projections, expense breakdowns, and deficit analyses are detailed in Section XIV of this Study.

This Study also serves as LaVerkin City's official Impact Fee Facilities Plan and includes an Impact Fee Analysis in accordance with Utah Code. Although WCWCD is expected to fund construction of the major capital improvements outlined in this Study, LaVerkin City may assess an impact fee to fund eligible planning costs and future capital needs. Based on the current growth model and project scope, the maximum allowable impact fee is $241.62 per new 1-inch secondary water connection.

A 20-year cash flow analysis is included in Appendix I.

II. INTRODUCTION

A) PREFACE

LaVerkin and WCWCD have partnered to contract Sunrise Engineering, LLC to prepare this feasibility study, master plan, impact fee facilities plan and impact fee analysis (Study).

For LaVerkin, this Study evaluates the position of the City's irrigation system relative to managing irrigation water rights, irrigation source and storage capacity, and the capability of the irrigation distribution system to meet the existing and projected demands to the system. This Study recommends management strategies and capital system improvements that make the system more efficient, facilitate maintenance and distribute cleaner irrigation water to the end user at delivery pressures that are as good or better than the existing conditions. The Study evaluates the financial requirements to implement the recommended improvements. This Study also serves as the City's Impact Facilities Plan and includes an Impact Fee Analysis.

For WCWCD, this Study presented a valuable early opportunity to utilize the reuse water generated by the CPWRF treatment facility which is nearing completion. The Study outlines a practical method to benefit from the reuse water close to the treatment facility—namely, enabling LaVerkin City's irrigation system to be supplied in part by the reuse water. In exchange, LaVerkin will allow a like-kind amount of its Virgin River water right to continue downstream to Quail Creek Reservoir for other beneficial use. The Study also identifies potential storage sites to serve as both a storage pond and forebay for LaVerkin's irrigation system, and simultaneously as a forebay for WCWCD to pump reuse water into the broader interconnected reuse system. Additionally, the Study presents a comparative assessment of the selected sites from both engineering and cost perspectives.

A joint advantage of the Study is the capture of significant water lost through slippage in LaVerkin's irrigation network.

B) LAVERKIN IRRIGATION SYSTEM DESCRIPTION

In 2007, LaVerkin City acquired the LaVerkin Bench Canal Company, which previously provided irrigation water to the service area, which is described as "those lands bounded on the south by the Virgin River, on the north and west by LaVerkin Creek, and on the east by the Hurricane cliffs."

The acquisition included the existing irrigation distribution network of, at the time, approximately 76,000 linear feet of irrigation pipe, the Company's water rights and financial assets. At present, a portion of LaVerkin's irrigation customers consist of former stockholders in the LaVerkin Bench Canal Company, whose stock has been exchanged for a water delivery contract, which entitles contract holders to receive their equivalent share of water available to the Company.

Today, LaVerkin City owns the irrigation distribution system, which consists of approximately 150,000 linear feet of main line irrigation pipes. The City of LaVerkin receives irrigation water from an onstream diversion of the Virgin River via a connection to the Quail Creek Pipeline, which is owned and maintained/operated by WCWCD. The onstream diversion is located upstream of the Pah Tempe Hot Springs, at a diversion structure owned and operated by WCWCD.

The diverted irrigation water passes through the Chance Hardy filter station before entering LaVerkin's distribution system. The filter station is located at the south end of the City. A map of LaVerkin's secondary water system is provided in Appendix A. The filter station houses three Amiad EBS 10,000 automatic filters that are equipped with 500-micron weave-wire screens. The filters reduce the quantity of suspended solids in the Virgin River water by capturing particles larger than 500 microns in size. However, during runoff events, the total suspended solids in the Virgin River is high enough that the system needs to be taken offline.

Historically, the secondary water distribution system is operational 9 months out of the year, from March to November. From time to time, LaVerkin has purchased water delivery contracts and, during the irrigation season, leases the use of this water to residents who are not in possession of a delivery contract. Many water users in LaVerkin elect not to use irrigation water at all, or to use culinary water instead of irrigation water, preferring the better-quality culinary water.

Users of irrigation water in LaVerkin can be divided into those with ownership of a delivery contract, hereafter called contract holders, and those that lease water from the City, hereafter called lease users. There is a third, but smaller, category called Standby users that have an irrigation water connection but do not actively use irrigation water.

C) CONTRACT HOLDERS

Contract holders are those irrigation users which formerly held stock in the LaVerkin Bench Canal Company. At the time that LaVerkin City purchased the Canal Company, there were 600 shares of stock with each individual share representing approximately 4.40 acre-feet annually (afa). Under the terms of the acquisition, LaVerkin City became obligated to deliver to contract holders the quantity of available water to which a former stockholder was entitled with the Canal Company, or their "share equivalent". Former stockholders that surrendered their stock in the Canal Company in exchange for a water delivery contract became "contract holders".

At the time of the acquisition the City gained a share of delivery contracts for its own use. Since then, the City has increased its delivery contract position by purchasing individual delivery contracts from time to time. As of July 2024, there are 290 unique delivery contract holders, excluding LaVerkin City.

The City's billing statements record the number of contract holders and the number of share equivalents for which they are billed on a semi-annual basis. The distribution of share equivalents

held by contract holders and the average contract holder statistics are summarized from these records in Table II.C-1 and Table II.C-2. As Table II.C-1 demonstrates, most of the delivery contract holders maintain ownership of between 0 and 1 share equivalents. However, as Table II.C-2 illustrates, the average number of share equivalents per contract holder is 1.51.

Table II.C-1: Contract Holder summary

Contract Holder Summary			
No. Share Equivalents Held	No. of Contract Holders	% Representation	Acre Feet Represented
0-1	223	77%	521.9
1 to 2	25	9%	178.5
2 to 5	26	9%	388.3
5 to 10	10	3%	343.6
10 to 20	5	2%	277.6
>20	1	0%	262.9
Total	290	100%	1972.8

Table II.C-2: Delivery Contract Holder statistics

Average Contract Holder Statistics	
Total Contract Holders Excluding LaVerkin City	290
Total Contract Holder Share Equivalents	441.86
Total Contract Holder Obligation (AFA)	1944.18
	Average
Share Equivalents per Contract Holder	1.51
Irrigatable Acreage per Contract Holder (acre)	1.11
Obligation per Contract Holder (AFA)	6.66

Each year, if all contract holders were to exercise their full contractual entitlement to water, LaVerkin City's obligation to fulfill these contracts would amount to approximately 1944.2 acre-feet.

D) LEASE & STANDBY USERS

LaVerkin City does not have a complete recordation of the delivery contracts which it claims. This Study assumes that the City owns the remainder of the water not obligated by the delivery contracts described in Section II.C.

The City leases its available irrigation water to users within its service area. The city tracks lessees according to the size of the user's parcel. There are also users that have an irrigation connection,

but that do not actively use irrigation water on a monthly basis. These are tracked and billed separately from leases. Based on the available data from past billing records, the City has 808 lease users and 292 standby connections as shown in Table II.D-1.

Table II.D-1: Lease & Standby user statistics

Lease & Standby User Statistics	
Lease Users	
Total Lease Users	808
Lots < 1/2 Acre	780
Lots 1/2 Acre to < 1 Acre	18
Lots > 1 Acre	10
Standby Connections	
Total Standby Connections	292

III. SYSTEM USERS ANALYSIS

A. HISTORICAL SECONDARY WATER USAGE

Secondary water usage data was provided by the City and is shown in Table III.A-1. This data comes from a master meter located at the Chance Hardy Filter Station and includes the total secondary water usage by month for years 2016 through 2024. The water usage reports include usage for the irrigation water year, which begins in March and ends in November.

Table III.A-1: Secondary water usage measured at the Chance Hardy Filter Station

Monthly Secondary Water Usage (Acre-Feet)										
Month	2016	2017	2018	2019	2020	2021	2022	2023	2024	Average
MAR	123	104	121	49	155	87	119	14	78	94
APR	109	135	186	138	142	218	267	96	182	164
MAY	184	213	234	409	271	300	307	226	238	265
JUN	290	303	353	285	324	298	385	250	319	312
JUL	328	288	242	361	352	222	314	359	360	314
AUG	163	272	222	312	353	244	157	182	205	234
SEP	195	213	270	296	298	272	233	162	225	240
OCT	189	208	91	210	262	133	200	253	244	199
NOV	103	121	0	109	66	109	25	85	84	78
Total Annual Usage	1,683	1,857	1,719	2,169	2,223	1,883	2,007	1,627	1,935	1,900
Surplus	957	783	921	471	417	757	633	1,013	705	740

Table III.A-1 compares the annual secondary water usage against the City's available water right duty of 2640 afa. The difference between these is surplus secondary water. Between 2016 and 2024 the volume of surplus secondary water has fluctuated between 417 acre-feet and 1,013 acre-feet, with an average of 740 afa during that time period.

Monthly consumption data for 2022 to 2024 is shown in Table III.A-2. The monthly average of secondary water consumption during this period has been 206 acre-feet. Figure III.A-1 depicts the 3-year monthly average usage as a percentage of the total use over the 9-month irrigation season.

Table III.A-2: Secondary water usage by month

Month & Year	Monthly Water Usage Data (Acre-Feet)			
	2022	2023	2024	Average
MAR	119	14	78	70
APR	267	96	182	182
MAY	307	226	238	257
JUN	385	250	319	318
JUL	314	359	360	344
AUG	157	182	205	181
SEP	233	162	225	207
OCT	200	253	244	232
NOV	25	85	84	65
DEC	0	0	0	0
Average	**223**	**181**	**215**	**206**

Monthly % of Usage		
Month	% of Annual	% of Average
MAR	3.8%	34.1%
APR	9.8%	88.1%
MAY	13.8%	124.6%
JUN	17.1%	154.2%
JUL	18.5%	166.9%
AUG	9.8%	87.9%
SEP	11.1%	100.2%
OCT	12.5%	112.6%
NOV	3.5%	31.4%
DEC	0.0%	0.0%

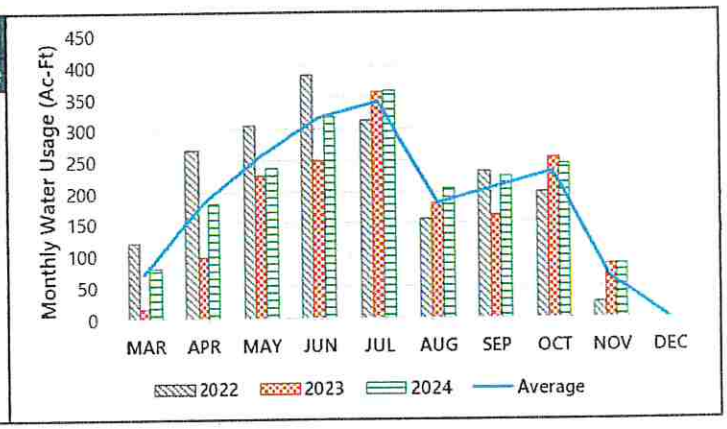


Figure III.A-1: Seasonal distribution of secondary water between 2022 and 2024

B. USAGE BY CONNECTION TYPE

Information regarding the number of secondary water connections was provided by LaVerkin City. As of the most recent 2024 data, there were 1,087 total secondary water connections, including 1,013 residential, 1 commercial, 1 industrial, 11 institutional and 61 agricultural connections. The number of connections between 2022 and 2024 is summarized below in Table III.B-1.

Table III.B-1: LaVerkin City secondary water connections 2022-2024

Year	Secondary Water Connection Data					
	Residential Connections	Commercial Connections	Industrial Connections	Institutional Connections	Agricultural Connections	Total Connections
2022	1,003	3	1	7	61	1,075
2023	1,003	1	1	7	61	1,073
2024	1,013	1	1	11	61	1,087

The City's secondary water system is unmetered and does not have reliable methods to monitor the consumption of each end user. Based on estimates provided by the City, secondary water usage is approximately distributed among the different connection types as shown in Table III.B-2. The Equivalent Residential Unit (ERU) ratio is also shown in Table III.B-2. The ERU ratio is simply the average usage for a given connection type divided by the average usage of a residential connection. Computing the average usage value per ERU allows for the comparison between a residential connection and any other type of connection. For example, Table III.B-2 shows that the average agricultural connection used 5.8 times more water than the average residential connection in 2022.

Table III.B-2: Share of usage by connection type and ERU ratio by connection type

Year	Total Monthly Average Water Use (gal)					Equivalent Residential Unit Ratio			
	Residential	Commercial	Industrial	Institutional	Agricultural	Commercial	Industrial	Institutional	Agricultural
2022	47,232,008	726,646	726,646	7,266,463	16,712,864	5.1	15.4	22.0	5.8
2023	38,289,226	589,065	589,065	5,890,650	13,548,495	15.4	15.4	22.0	5.8
2024	46,238,164	700,578	700,578	7,706,361	14,712,143	15.3	15.3	15.3	5.3
				Average ERU Ratio		12.0	15.4	19.8	5.6

The total number of ERUs in the system can then be determined by multiplying the number of connections of each type by their respective ERU ratios. The total number of ERUs for each connection type are shown in Table III.B-3. The distribution of ERUs by connection type is given in Table III.B-4.

Table III.B-3: Total ERUs by connection type

Year	Equivalent Residential Units					
	Residential ERUs	Commercial ERUs	Industrial ERUs	Institutional ERUs	Agricultural ERUs	Total ERUs
2022	1,075.0	15.4	15.4	154.3	354.9	1,615.1
2023	1,073.0	15.4	15.4	154.3	354.9	1,613.1
2024	1,087.0	15.3	15.3	168.8	322.3	1,608.8

Table III.B-4: Estimated distribution of secondary water usage by connection type according to City staff

Connection Type	Average % Usage
Residential	66.9%
Commercial	1.0%
Industrial	1.0%
Institutional	9.9%
Agricultural	21.3%

The estimated average usage per ERU is given in Table III.B-4. The three-year average is 1,028 gpd per ERU.

Table III.B-4: Average usage per ERU

Year	Average Total Usage Per ERU		
	Yearly (gal)	Monthly (gal)	Daily (gal)
2022	404,923	33,744	1,109
2023	328,663	27,389	900
2024	391,908	32,659	1,074
3 Yr Ave	375,165	31,264	1,028

C. USAGE BY BILLING TYPE

Under the City's existing billing structure irrigation water users are billed either as contract holders or lease users. This Study assumes that most contract holders have agricultural type connections, and that some contract holders use less, and some more, than the amount allotted to them. This Study also assumes that all commercial, industrial, and institutional connection types lease water, and that a majority of users who lease water do so for lawns and gardens.

Where no meters are in place to measure the usage of each user, the procedure used to estimate the average daily usage of lease users and contract holders is explained in this section.

This Study used the guidelines for determining outdoor use given in Section R309-510-3 of the State of Utah Administrative Rules to determine lessee usage. This guideline suggests that in LaVerkin the average annual usage should be approximately 3.26 acre-feet is used per year per acre of irrigated acre. City staff provided data on the average lot size and open space representing residential irrigation users. Based on the data provided, an average of 0.14 irrigable acres per lease user was estimated.

The average 0.14 irrigable acres per lease user was multiplied by the assumed usage of 3.26 afa per irrigated acre to determine the estimated average usage per lease user. The resulting estimated average lessee usage is presented in Table III.C-1.

As mentioned in this section all users of irrigation water can be categorized as either lease users or contract holders. Therefore, the total contract holder usage is equal to the total system usage less the lessee usage. This amount was distributed evenly across the 292 total contract holders to obtain the average contract holder usage values given in Table III.C-1. As the table shows, the estimated average usage per contract holder is approximately 5.1 afa. This does not seem unreasonable since each contract holder owns an average of 1.51 share equivalents, and each share equivalent allows for delivery of up to 4.4 afa. This means that on average, each contract holder has the right to delivery of up to 6.64 afa.

The numbers presented in Table III.C-1 will be used as the average lessee and contract holder usages throughout the rest of this Study.

Table III.C-1: Estimated average usage between lessee and contract holders

Estimated Average Usage by Billing Type				
Billing Type	AFA	gal/year	gal/month	gal/day
Average Lease User	0.459	149,549	16,617	554
Average Contract Holder	5.087	1,657,711	184,190	6,140

D. AVERAGE DAY DEMAND

The Average Day Demand (ADD) for both lease users and delivery contract holders was determined as described in Section III.C and reported in Table III.C-1. The average usage for lessees and contract holders is estimated to be:

- Lease Users: 554 gpd
- Contract Holders: 6,140 gpd

E. PEAK DAY DEMAND

Peak Day Demand (PDD) is defined by the Utah Administrative Code as the water system's demand on the day of highest water consumption. Several approaches were used to estimate the expected peak day demand of the system.

The first approach assumes that peak day demand in LaVerkin City would follow the guidelines for irrigation use given in Utah Administrative Code R309-510-7. This section of the code directs design for culinary water systems but provides general guidelines for water systems that provide culinary water for irrigation. According to Table 510-3, LaVerkin' secondary water system should be capable of providing at least 4.90 gpm per irrigated acre. Based on the average land use assumptions stated in Section II.C and Section III.C, the total irrigated acreage by the City's billing records is shown in Table III.E-1. By this approach the irrigation system should be capable of providing 2,179 gpm.

Table III.E-1: Estimated average irrigable area and minimum required source capacity

Connection Type	Average Irrigable Area per Connection (acres)	Total Connections	Total Irrigable Area (acres)
Delivery Contract	1.133	292	330.9
Lease User	0.141	808	113.8
Total		1,100	444.7
State Required Source Capacity (gpm/irrigable acre)		**Total Required Source Capacity (gpm)**	
4.90		2,179	

The PDD was also estimated by reviewing historical use data from prior irrigation seasons. As shown in Table III.A-1, July is the month with the highest average usage. A ratio was computed to compare the secondary water usage from a typical month to the usage of the average peak month (July) and the maximum historical month usage recorded since 2016. These ratios, called peaking ratios, and the PDD associated with each are reported in Table III.E-2.

Table III.E-2: Peaking factors used to determine the system PDD

System Peak Day Demand Determination			
Demand	Method of Determination	Required Source Capacity (gpm/system)	Peaking Factor
Average Day Demand	Historical Usage	1,556	1
Peak Day Demand - Approach 1	R309-510 Table 510-3	2,179	1.40
Peak Day Demand - Approach 2	Average Peak Month (July)	2,368	1.52
Peak Day Demand - Approach 3	Historical Peak Month (May '19)	3,085	1.98

Based on the spread of the historical peaking ratios, this Study concludes that the PDD is between 2,179 gpm and 3,085 gpm. Whereas the peaking factor in the average peak month is 1.52, and the maximum peaking factor recorded since 2016 was 1.98, this Study estimates the PDD using a peaking factor of two times the historical average system demand, or 3,111 gpm, as reported in Table III.E-3. The usage values for lessee and delivery contract holder associated with the PDD are also given in Table III.E-3.

Table III.E-3: PDD for the system, lease users and contract holders

Peak Day Demand		
Design Peak Day Demand	3,111	gpm/system
Design Peak Day Demand Lessee Usage	1,108	gpd/Conn.
Design Delivery Contract Peak Day Demand Usage	12,278	gpd/Conn.

F. PEAK INSTANTANEOUS DEMAND

Peak Instantaneous Demand (PID) for outdoor irrigation is defined as the highest demand on the system at any one instance. This can be determined based on peak instantaneous water flow data if such data is available.

Based on master meter data available at the Chance Hardy Filter Station, the City has recorded peak instantaneous demands as high as 8 cfs, or approximately 3590 gpm.

G. USAGE REDUCTION - CONSERVATION

This Study assumes that future development within LaVerkin will comply with WCWCD's long-term water efficiency and conservation goals, as written in the *Regional Water Master Plan* (WCWCD, update 2023). Specifically, the plan reports an average annual metered water use per ERC and targets a 23.19% water use reduction goal for future use. The plan also estimates that approximately 57% of water usage for new development will come from outdoor use.

Based on these projections, this Study estimates outdoor usage for new development of approximately 0.20 afa, or 238 gallons per day, as shown in Table III.G-1.

Table III.G-1: Estimated outdoor usage of future development in LaVerkin City based on figures from the *Regional Water Master Plan (WCWCD, 2023)*

Future Development (Hi-Efficient Water Use)		
Average annual metered water use per ERC	198,568.00	gal/year
2030 conservation target	23.19%	
Average daily metered use per ERC	544.0	gal/day
Estimated annual use with conservation target	152,520.08	gal/year
Estimated daily use with conservation target	417.9	gal/day
Estimated outdoor use fraction	57%	
Estimated daily outdoor use	238.2	gal/day
Estimated monthly outdoor use	7,145	gal/month
Estimated yearly outdoor use	64,309	gal/year
Estimated yearly outdoor use	0.20	afa

H. BUILD-OUT ANALYSIS

In addition to the 20-year planning window this Study considers outdoor water use for the scenario in which all existing zoning within the Lower Bench is filled. This scenario is referred to as the "build-out" condition.

The Study incorporates findings from the *LaVerkin City Culinary Water Master Plan (CWMP) Update (2025)* and adopts its buildout estimates while recognizing differing growth trajectories

between the culinary and secondary water systems. For example, secondary water demand on the lower bench is anticipated to be less at the buildout condition than in the proximate future. This is due to the aforementioned conservation targets, as well as the reduction in irrigation demand as agriculturally zoned properties are exchanged for other types of development.

The CWMP presented a build-out projection on the lower bench. As can be seen in Table III.H-1, the CWMP projects 4,222 residential culinary water ERUs and 5,419 total culinary water ERUs at the build-out condition.

Table III.H-1: LaVerkin City lower bench culinary water build-out as reported in the *LaVerkin City CWMP Update (Sunrise, 2025)*

Lower Bench Build Out Analysis	
Residential ERU	4,222
Other ERU	1,197
Total ERU	5,419
Projected Build Out Year	2075

This Study adapts the build-out projection from the CWMP to the City's secondary water system. This Study assumes that at the build-out condition, all culinary water connections will also have a secondary water connection. The projected number of commercial, institutional and industrial connections shown in Table III.H-2 were calculated by dividing the ERUs of each connection type by the respective equivalent ERU ratios per connection provided in the CWMP.

This Study also assumes that not all delivery contracts will be held by the City at the build-out condition. This Study assumes that there will be a residual of approximately 10% of the now 290 delivery contract holders, and that there is an average of 1.11 irrigable acres per contract holder.

Based on these assumptions, a projection of the number and type of irrigation connections comprising LaVerkin's secondary water system at the build out condition is presented in Table III.H-2.

Table III.H-2: LaVerkin City lower bench secondary water system at build-out

Lower Bench Secondary Water System Build-Out Summary	
Delivery Contract Holders	30
Lessees	4,542
Residential Connections	4,222
Commercial Connections	310
Institutional Connections	30
Industrial Connections	10
Total Connections	4572

IV. SYSTEM GROWTH ANALYSIS

A. LENGTH OF PLANNING PERIOD

It is typical for a master plan to use a 10- or 20-year planning period. For example, if the first year of a 10-year planning period were 2025, the 10th and final year would be 2034. This Study will use calendar years and will assume a 20-year planning period when considering recommended improvements, beginning in the year 2025 and concluding in the year 2044. This planning period will allow an adequate evaluation of the system for the potential infrastructure improvements or other needs. Revenue sources should be carefully evaluated each year as budgets are set by the city council.

B. PROJECTED GROWTH RATE

An important element in the development of a master plan and capacity analysis is the projection of the City's population growth rate. This projection gives the planner an idea of the potential future demands on the system in question for the length of the planning period. All planning for the future should be based on the expected population growth.

Sunrise has recently performed a master plan study for LaVerkin's culinary water system. The Culinary Water Master Plan (CWMP) was written for the planning period between 2025 and 2044, and analyzed historical population records, census data, water connection data and water population data to determine a growth rate for the planning period. This Study uses the growth figures presented in the CWMP and considers differences to these growth projections that are specific to the City's secondary water system.

Historic population growth and population growth rates are presented in Table IV.B-1 and Table IV.B-2.

Table IV.B-1: LaVerkin City historic population data

	POPULATION ESTIMATE - PAST			
YEAR	CENSUS DATA	RESIDENTIAL WATER CONNECTION DATA	WATER POPULATION DATA	AVERAGE
2016	4,182	4,170	4,800	4,384
2017	4,225	4,256	4,870	4,450
2018	4,268	4,327	4,700	4,432
2019	4,329	4,420	4,485	4,411
2020	4,383	4,485	4,520	4,463
2021	4,286	4,587	4,575	4,483
2022	4,360	4,284	4,605	4,416
2023	4,400	4,453	4,650	4,501

Table IV.B-2: LaVerkin City historic growth rate

YEAR	PERCENT GROWTH			
	CENSUS DATA	RESIDENTIAL WATER CONNECTION DATA	WATER POPULATION DATA	AVERAGE
2016	0.63%	1.27%	0.00%	0.63%
2017	1.03%	2.53%	2.05%	1.87%
2018	1.02%	2.07%	1.66%	1.58%
2019	1.43%	3.17%	2.16%	2.25%
2020	1.25%	1.13%	1.47%	1.28%
2021	-0.99%	3.12%	2.26%	1.46%
2022	1.73%	0.32%	-6.60%	-1.52%
2023	0.92%	1.72%	3.94%	2.19%
		2016-2023 AVERAGE		1.61%

The City's anticipated growth rate between 2016 and 2023 was 2.5% to 2.75%, which is higher than the observed growth rates reported in Table IV.B-2. In working with City staff to review past growth rates and upcoming developments, it was determined that a higher growth rate is expected over the next several years. This Study will use two growth rates: one for the first five years and a second for the remainder of the planning period. The growth rates used in this Study are presented in Table IV.B-3.

Table IV.B-3: Growth rates for the planning period

Predicted Growth Rate	
3.00%	5 Year Growth Rate (2025-2029)
2.50%	Extended Growth Rate (2030-2044)

C. 20-YEAR PROJECTED GROWTH

The forecasted growth of secondary water connections in LaVerkin is dependent on several factors. Firstly, growth in the secondary water system is constrained by the limits of the City's service area. This area was defined in Section II.B and is known as the "lower bench". At the time of writing of this Study the City has no intention to deliver secondary water to future development on the upper bench. This Study assumes that the secondary water system will not be expanded to the upper bench.

This Study assumes that all future development on the lower bench will be provided with a secondary water connection. New secondary water connections are assumed to grow at the growth rates given in Table IV.B-3. The projected growth of secondary water connections through 2045 is presented in Table IV.C-1.

Table IV.C-1: 20-year projected growth of secondary water connections

Year	Estimated Growth Rate	Total Contract Holders	Lessees Connected	Prospective Lessees not Connected	Prospective Lessees Converted	Added Development (Lower Bench)	Total New Development (Lower Bench)	Total Lessee Connections	Total Irrigation Connections
2024	3.0%	292	808	560	40	0	0	808	1,100
2025	3.0%	288	848	520	40	24	24	872	1,160
2026	3.0%	283	888	480	40	26	50	938	1,222
2027	3.0%	279	928	440	40	28	79	1,007	1,286
2028	3.0%	275	968	400	40	30	109	1,077	1,352
2029	2.5%	271	1,008	360	40	27	136	1,144	1,414
2030	2.5%	267	1,048	320	40	29	164	1,212	1,479
2031	2.5%	263	1,088	280	40	30	195	1,283	1,545
2032	2.5%	259	1,128	240	40	32	227	1,355	1,613
2033	2.5%	255	1,168	200	40	34	261	1,429	1,683
2034	2.5%	251	1,208	160	40	36	296	1,504	1,755
2035	2.5%	247	1,248	120	40	38	334	1,582	1,829
2036	2.5%	244	1,288	80	40	40	373	1,661	1,905
2037	2.5%	240	1,328	40	40	42	415	1,743	1,983
2038	2.5%	236	1,368	0	0	44	458	1,826	2,063
2039	2.5%	233	1,368	0	0	46	504	1,872	2,105
2040	2.5%	229	1,368	0	0	47	551	1,919	2,148
2041	2.5%	226	1,368	0	0	48	599	1,967	2,193
2042	2.5%	222	1,368	0	0	49	648	2,016	2,239
2043	2.5%	219	1,368	0	0	50	698	2,066	2,286
2044	2.5%	216	1,368	0	0	52	750	2,118	2,334
2045	2.5%	213	1,368	0	0	53	803	2,171	2,384

As part of the City's conservation measures, they are working to make secondary water available to all connections. The number of prospective secondary water users is shown in Table IV.C-2 and these were estimated by subtracting the number contract holders, active lessees and standby connections from the number of existing culinary water connections. This Study assumes that the City will connect all 268 of these users to secondary water, and that standby connections will begin using secondary water at a rate of approximately 40 connections per year between 2025 and 2038, as shown in Table IV.C-1.

Table IV.C-2: Unconnected Secondary Water Users in 2024

Unconnected Secondary Water Users	
Total Culinary Water Connections	1,660
Contract Holders	292
Active Lessee	808
Standby Connections	292
Unconnected Secondary Water Users	268

As build-out occurs this Study anticipates that contract holders will sell their delivery contracts to LaVerkin City at a rate of -1.50% per year for the planning period. Delivery contracts will decrease as properties with agricultural connections are sold and developed into properties with residential type secondary water connections.

V. WATER RIGHTS ANALYSIS

A. EXISTING WATER RIGHTS PORTFOLIO

LaVerkin's existing secondary water rights were acquired from the LaVerkin Bench Canal Company and are identified in Table V.A-1 below. The water rights are listed according to number, source, and flow.

Table V.A-1: LaVerkin City total secondary water rights

Secondary Water Rights			Flow		Duty
W.R. #	Type	Source	gpm	cfs	ac-ft
81-2481	Industrial	Virgin River	13.3	0.0297	20.0
81-2477 a13530	Irrigation	Virgin River	2,230.5	4.970	1,630.0
81-4334	Irrigation	Virgin River	1,346.4	3.000	990.0
		Total Other Water Rights	**3,590.20**	**8.00**	**2,640.00**

B. EXISTING REQUIRED WATER RIGHT

The City's required water right is determined from the ADD on the system. The ADD for lease users and contract holders was determined in Section III.D. These estimates of individual usage can be converted to an average system-wide demand of 1,882 afa.

Table IV.B-1 subdivides the average system-wide demand between contract holders and lease users. This is done firstly to account for the different projected growth patterns between lessees and contract holders, and secondly, to ensure that the lessee usage does not exceed the delivery contracts owned by the City.

Based on the total number of delivery contract holders plus lease users, and the estimated average usage for each, the City has access to enough water rights to supply its existing water right demand, with a surplus of 758 acre-feet, as shown in Table V.B-1.

Table V.B-1: LaVerkin total secondary water right surplus

Existing Average Demand (Total Use)								
292	Delivery	X	6,140 gpd X	1 day X	1 hr	=	1,245	gpm
	Contract Holder		DC	24 hr	60 min.			
292	Delivery	X	6,140 gpd X	274 day X	1 ac-ft.	=	1,506	ac-ft
	Contract Holder		DC	1 yr	325,829 gal			
808	Lessee	X	554 gpd X	1 day X	1 hr	=	311	gpm
	Connections		LC	24 hr	60 min.			
808	Lessee	X	554 gpd X	274 day X	1 ac-ft.	=	376	ac-ft
	Connections		LC	1 yr	325,829 gal			
					Total Required Water Right		**1,882**	**ac-ft**
					Existing Secondary System Water Right Surplus		**758**	**ac-ft**

C. PROJECTED REQUIRED WATER RIGHT

Using the same method of calculating water right demand, projections for the 10-, 20-, and 40-year planning horizons indicate that the City will maintain a surplus of water rights through the entire 40-year period, as shown in Table V.C-1. In the near-term, due to the relatively rapid addition of the unconnected secondary water users and additional growth, combined with the relatively slow attrition of high-usage delivery contracts, this Study estimates that a peak demand year, or worst-case demand year, will occur by the year 2038.

Table V.C-1: Projected growth of lease users, contract holders, unconnected users, irrigation demand, and water right surplus through 2065

Year	Total Lease Users	Total Contract Holders	Total Unconnected	Projected Irrigation Demand (afa)	Projected Total Water Right Surplus/Deficit (afa)
2025	872	288	520	1,857	976
2030	1212	267	320	1,870	963
2035	1582	247	120	1,897	936
2038	1826	236	0	1,920	912
2040	1919	229	0	1,903	930
2045	2171	213	0	1,868	965
2050	2456	197	0	1,845	987
2055	2779	183	0	1,836	997
2060	3144	169	0	1,841	992
2065	3558	157	0	1,825	1007

Figure V.C-1 shows the forecasted growth conditions described in this section. The forecasted number of total connections is shown by the black line in the figure. The number of total connections (represented by the black line) grows as the delivery contract connections are converted to lease connections. As the City purchases the delivery contracts the obligation to delivery contract holders (light blue line) decreases. The total irrigation demand remains relatively constant as higher consumption delivery contracts convert to more efficient lease connections.

The green line in Figure V.C-1. represents the City's priority Virgin River water right. LaVerkin's surplus water (dark blue line) is the difference between the City's water right and the total secondary water demand (red line). The dashed surplus line represents the available surplus after repairs to the system to reduce slippage in the system. The values corresponding to the dashed line are those reported in Table V.C-1. For a discussion on these repairs see Section IX.C.

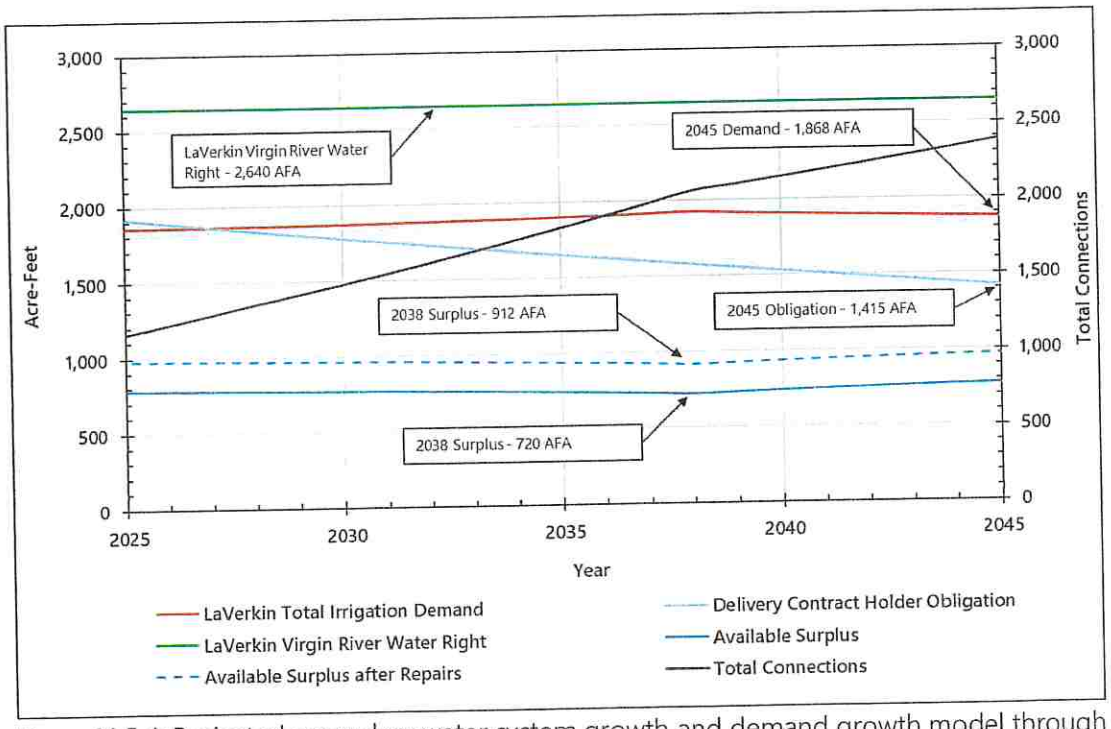


Figure V.C-1: Projected secondary water system growth and demand growth model through 2045

D. RECOMMENDED WATER RIGHTS IMPROVEMENTS

The projections in this analysis show that the City has sufficient water rights to meet the secondary water demands through the year 2065. Due to this sufficient capacity, this Study does not provide any recommended water rights improvements.

In 2026, Ash Creek Special Services District (ACSSD) will complete construction of a new water reclamation facility within the LaVerkin City boundary. The facility will receive wastewater from the surrounding region and produce Type I effluent. In conjunction with this treatment facility, WCWCD is currently developing a regional reuse program which could make additional water rights available to the City for irrigation.

VI. WATER SOURCE ANALYSIS

A. EXISTING WATER SOURCE CAPACITY

The City's sole secondary water source comes from a piped connection to the Quail Creek Diversion structure. Sufficient data is not available to determine a total source capacity. The capacity of the pipeline exceeds the City's water rights in the Virgin River and the measured historical usage. The City's source capacity used in this Study will be the 8.0 cfs (3590 gpm) flow rate limit established by the water rights given in Table V.A-1.

B. EXISTING REQUIRED WATER SOURCE CAPACITY

The source capacity calculation uses the PDD, which was determined in Section III.E to be:

- 1,108 gpd for lease users and
- 12,278 gpd for contract holders.

Based on the existing number of delivery contract holders plus lease users, and the estimated PDD for each, the City's secondary water system source demand is 3,111 gpm as shown in Table VI.B-1. The table shows that there is an existing source capacity surplus of 479 gpm.

Table VI.B-1: LaVerkin City water source capacity versus existing demand

Existing Required Source Capacity						
808 Lessee Conn X	1,108 gpd X	1 day X	1 hr	=	622	gpm
	ERU	24 hr	60 min.			
292 Delivery Contr X	12,278 gpd X	1 day X	1 hr	=	2,490	gpm
	ERU	24 hr	60 min			
Total Required Source Capacity					**3,111**	**gpm**
Source Capacity Surplus/Deficit					**479**	**gpm**

C. PROJECTED REQUIRED WATER SOURCE CAPACITY

Applying the same PDD to the projected growth of the irrigation system, outlined in Section IV, this Study anticipates that the City will have sufficient source capacity to exceed the secondary water demands throughout the planning period. Table VI.C-1 illustrates the surplus of available source relative to the projected demand from lease users.

As described in Section V.C, this Study anticipates that the irrigation system will experience a year of peak demand by the year 2038. In that year, this Study estimates excess source capacity of 371 gpm as shown in Table VI.C-1.

Table VI.C-1: LaVerkin City water source capacity versus projected demand

Year	Total Lease Users	Total Contract Holders	Total Unconnected	Required Source Capacity (gpm)	Projected Source Capacity Surplus/Deficit (gpm)
2025	872	288	520	3,113	477
2030	1212	267	320	3,134	456
2035	1582	247	120	3,179	411
2038	1826	236	0	3,219	371
2040	1919	229	0	3,190	401
2045	2171	213	0	3,131	459
2050	2456	197	0	3,093	497
2055	2779	183	0	3,078	513
2060	3144	169	0	3,085	505
2065	3558	157	0	3,117	474

This Study also evaluated how many additional lease users could be supplied without any attrition of delivery contract usage. If the existing usage patterns persist, and there is no attrition of contract holders, the source capacity of the system can support an additional 645 lease users, as demonstrated in Table VI.C-2.

Table VI.C-2: Maximum additional connections supportable by existing source capacity

Maximum Allowable Connections at Peak Day Demand						
1,453 Lessee Conn X	1,108 gpd X	1 day X	1 hr	=	1,117	gpm
	ERU	24 hr	60 min.			
290 Delivery Contr X	12,278 gpd X	1 day X	1 hr	=	2,473	gpm
	ERU	24 hr	60 min			
Total Required Source Capacity					**3,590**	**gpm**
Source Capacity Surplus/Deficit					**0**	**gpm**
Total Allowable New Lessee Connections					**645**	

D. RECOMMENDED WATER SOURCE CAPACITY IMPROVEMENTS

The source capacity analysis shows that the existing available source is sufficient to accommodate an existing peak day demand through the planning period, though at the peak projected use in the year 2038, the surplus source capacity is only 371 gpm. The system growth model anticipates that the system's excess source capacity will increase beyond 2038 as the demand from contract holders decreases and is replaced by development with lesser irrigation demand.

VII. WATER STORAGE CAPACITY ANALYSIS

A. EXISTING WATER STORAGE CAPACITY

LaVerkin City currently has no storage for secondary water.

B. EXISTING REQUIRED WATER STORAGE CAPACITY

The State does not require secondary water systems to provide storage. However, for culinary water systems that provide secondary water, guidelines for secondary water storage are found in the State of Utah Public Drinking Water Regulations, R309-510. For LaVerkin the guideline would be to use the maximum of either 4,964 gallons per irrigated acre, or the ADD, plus emergency storage. Whereas LaVerkin uses culinary water only for fire suppression, no additional secondary water storage is necessary for fire suppression.

The ADD was determined to govern, and the minimum required storage was determined to be approximately 2.24 million gallons (MG) as shown in Table VII.B-1.

Table VII.B-1: Recommended secondary water capacity to satisfy existing ADD

Existing Required Storage Capacity					
LaVerkin City Historic Average Day Consumption					
	554 gpd Conn.	X	808 Lessee Conn.	=	447,538 gpd
	6139 gpd	X	292 Delivery Contract Holders	=	1,792,635 gpd
			Total Existing Required Storage		2,240,174 gal.
			Total Existing Capacity		0 gal.
			Existing Capacity Deficit		(2,240,174) gal.

C. PROJECTED REQUIRED WATER STORAGE CAPACITY

Based on the projected growth model outlined in Section IV, and the peak anticipated demand in the year 2038 explained in Section V.C, this Study anticipates that the required storage capacity based on one average day demand will be as shown in Table VII.C-1. According to these projections, this Study anticipates that in 2038 a storage capacity of approximately 2.32 MG will be needed to supply one ADD.

Table VII.C-1: LaVerkin City projected required secondary water storage capacity

Year	Total Lease Users	Daily Lessee Usage (gal)	Total Contract Holders	Daily Contract Holder Usage (gal)	Total 1 Day Required Storage (gal)
2025	872	475,467	288	1,765,746	2,241,213
2030	1,212	619,596	267	1,637,229	2,256,824
2035	1,582	770,757	247	1,518,066	2,288,823
2038	1,826	866,913	236	1,450,772	2,317,685
2040	1,919	888,937	229	1,407,575	2,296,512
2045	2,171	948,998	213	1,305,127	2,254,125
2050	2,456	1,016,951	197	1,210,135	2,227,087
2055	2,779	1,093,835	183	1,122,058	2,215,892
2060	3,144	1,180,821	169	1,040,390	2,221,211
2065	3,558	1,279,238	157	964,667	2,243,905

D. RECOMMENDED WATER STORAGE CAPACITY IMPROVEMENTS

While the existing source currently provides a reliable and consistent supply sufficient to meet the City's secondary water demands without the need for storage, the addition of a storage facility could offer several operational benefits. Storage would help buffer peak demands on the source and support pressure regulation throughout the distribution network. Additionally, a properly designed storage facility could facilitate sediment removal prior to water entering the distribution system, thereby improving overall water quality.

VIII. SECONDARY WATER FILTERING STATION ANALYSIS

A. EXISTING FILTER STATION

LaVerkin City currently filters its secondary water following diversion from the Virgin River, which is known for carrying significant amounts of sediment and other debris. During storm events, when the river experiences elevated turbidity and flow, the City typically shuts down the secondary irrigation system to prevent sediment-related clogging and damage.

The existing filtration system, constructed in 2010, consists of three Amiad filters in parallel, each equipped with electronic backwash capabilities. These filters utilize screens rated to capture particles down to 500 microns (0.5 mm) in diameter, primarily targeting coarse sand and larger debris. While the installation represented a substantial improvement at the time, the system still allows fine sediment and silt to pass through.

A) RECOMMENDED WATER FILTERING IMPROVEMENTS

Should the City pursue a secondary water storage facility, as recommended in Section VII, the facility could act as a sedimentation basin and remove the need for filtration.

IX. SECONDARY WATER DISTRIBUTION SYSTEM ANALYSIS

LaVerkin City's existing distribution system is fed and pressurized directly from the Virgin River through the Chance Hardy filter station. From the filter station the water is conveyed to the system through three separate pipelines.

The pressurized pipe network distributes water to the end users throughout the City. This Study used the computer modeling software, AquaTwin, by Aquanuity©, to analyze the performance of the existing distribution network under PDD and PID conditions. The system performance was evaluated based on the pressure and flow available to end users. Operating pressures between 40 and 80 psi, and flow velocities of less than 5 feet/second were deemed acceptable for this Study.

The evaluation identified potential areas of improvement throughout the system. A map of the existing irrigation system model is presented as Appendix B of this report. The labels on the map indicate the corresponding number of each node in the irrigation system model.

A. EXISTING DISTRIBUTION SYSTEM ANALYSIS

The existing Average Day Demand, Peak Day Demand and Peak Instantaneous Demand were calculated in Section III. These flows were converted from gallons per day per end user to gallons per minute for the distribution system and are shown in Table IX.A-1 below.

Table IX.A-1: LaVerkin City existing secondary water demand

Average Day Demand		
Lease User (gpd)	Contract Holder (gpd)	System (gpm)
554	6,139	1,556
Peak Day Demand		
Lease User (gpd)	Contract Holder (gpd)	System (gpm)
1,108	12,278	3,111
Peak Instantaneous Demand		
System (gpm)		
3,590		

The existing model scenarios for PDD, PID and PDD demonstrate that the existing system is adequate to meet these demands. The resulting pressure at each node of the irrigation system under the three demand scenarios is presented in tabular form in Appendix B of this report. In general, under ADD conditions, the irrigation system provides adequate performance, as described above, throughout the City.

Under PDD and PID conditions, the area where irrigation service pressure is less than 40 psi extends into the east side of Zion View Estates.

B. PROJECTED DISTRIBUTION SYSTEM ANALYSIS

The projected system analysis is performed using the same assumptions in the existing system analysis, except that the projected demands from the worst-case irrigation demand year (2038), as defined in Section V.C, are used. The projected future demands are as follows:

- ADD – 1,628 gpm
- PDD – 3,257 gpm
- PID – 3,758 gpm

The existing distribution system was modeled considering the projected system demands. Based on these projected demands, the model identifies a slight increase in the total area where service pressures are less than 40 psi. However, this area remains confined to the Zion View Estates, Sunset View Estates, and Cottonwood Hollow subdivisions.

Maps and tables of the model output results for the projected secondary water demand are given in Appendix B of this report.

C. RECOMMENDED DISTRIBUTION SYSTEM IMPROVEMENTS

The projected distribution analysis indicates that the existing system has the capacity to maintain the described levels of service through the planning window. However, the system experiences several significant challenges which require attention. The following paragraphs list recommended system improvement projects to help with operation and maintenance of the system.

First, the 15-inch distribution line in 100 E is made of plastic irrigation pipe (PIP), which is old and brittle, and requires regular repair. This Study recommends replacing the full length of 15-inch trunkline from 500 N to 400 S. If a pressure regulating irrigation pond is constructed (as recommended in the PER section of this study), the 15-inch PIP line may be replaced with a 16-inch PVC line that can taper to a 12- and then 8-inch pipe to the south, as shown in Appendix C.

Second, many of the irrigation lines run along the backs and sides of private lots, outside of the right-of-way of City streets. This creates significant maintenance challenges when City staff need to access the lines for repairs. Relocating lines to City streets has been on the City's project priority list since the *LaVerkin City Secondary Water Master Plan* was published in 2010. Some of the lines requiring relocation which were identified in that report have been relocated as a result of other projects. A current map of the lines located outside of the City's right-of-way is presented as Appendix C of this report. The area of this project encompasses the entirety of LaVerkin City.

D. SYSTEM SLIPPAGE

LaVerkin City has reported that they anticipate as much as 0.4 cubic feet per second (cfs) of secondary water is lost due to slippage, or leakage, in the existing irrigation distribution network. It is estimated that this slippage value is constant when the system is in use. This equates to approximately 180 gpm, or 214 acre-feet during the typical 9-month irrigation season.

The City anticipates that the recommended improvements would help reduce the amount of observed slippage in the system. However, the exact location where the slippage occurs is unknown. The implementation of the recommended projects represents significant replacement of the existing irrigation system, approximately 25% of the system by pipe length.

LaVerkin City anticipates that most of the estimated slippage occurs within the area of the proposed improvement projects. By implementing these projects, it is anticipated that 90% of the observed slippage will be recaptured, representing nearly 8 percent of the City's annually available water.

X. SECONDARY WATER & REUSE FEASIBILITY STUDY INTRODUCTION

This Study includes an evaluation of the potential for mutual benefits of coordinated water resource planning between LaVerkin City and WCWCD. The concept of developing a new storage pond further developed from the need to identify practical uses and storage options for the reuse water produced by the Confluence Park Water Reclamation Facility (CPWRF) as part of the WCWCD Regional Reuse Purification System.

Early discussions considered alternatives such as sending the water directly to the Toquerville Secondary Water System (TSWS) and potentially back feeding into LaVerkin. One of the key purposes of a storage pond was to provide an intermediate storage location that could be filled without relying on high-pressure pumping—allowing water to be lifted once from Confluence Park to LaVerkin, and then a second time from LaVerkin to TSWS with more moderate pumping requirements. Furthermore, the reuse water could be used immediately in LaVerkin. Through these discussions, the idea of a LaVerkin-based storage pond emerged, and this report evaluates the feasibility of such a facility, identifies potential locations, and recommends a preferred site.

LaVerkin City has previously considered constructing a secondary water storage facility to support its system. This Study builds upon that earlier groundwork. The facility would be designed to store both reuse water and Virgin River water that the City uses for its secondary water system.

The following sections of the report establish the objectives and evaluation criteria for a potential pond site. A suitable location would need to meet the moderate head requirements associated with pumping from Confluence Park while also tying conveniently into LaVerkin's existing irrigation distribution system. Ideally, the pond would be situated at an elevation high enough to provide direct pressurization of the secondary irrigation network. In addition, the site must be large enough to store a practical volume of water, while remaining constructible and cost-effective to develop.

A. TARGET OBJECTIVES

For WCWCD, the strategic objectives relate to the regional reuse water program. Primary objectives include:

- Develop a storage facility to accommodate reuse water generated at the CPWRF.
- Strategically locate the storage facility to gain the operational flexibility to deliver reuse water to other interconnected facilities within its broader reuse network.

LaVerkin City's objectives in this joint study are focused on improving the reliability, efficiency, and sustainability of its secondary water system. These can be summarized as follows:

- Establish a storage facility that can regulate water quality and provide backup supply when river conditions are unsuitable for direct diversion.
- Improve the quality of water delivered to end users, which can be degraded by elevated total suspended solids (TSS) and silt—especially during or after flooding events on the Virgin River.

B. STORAGE FACILITY SELECTION CRITERIA

One component of this Study is to identify a potential site for a shared storage facility. The following criteria used to identify an appropriate location for a storage facility:

- target hydraulic grade line,
- target storage volume,
- operational efficiency, and
- the availability of suitable land.

These practical and technical considerations formed the basis of the site selection process used to identify and evaluate potential storage pond locations.

i) Target Hydraulic Grade Line

The elevation of the proposed storage pond is a critical factor in site selection, as it directly influences both the ability to fill the facility from the Virgin River and the potential to supply LaVerkin's secondary system under gravity pressure. An ideal location would strike a balance—low enough to be filled by gravity using existing infrastructure, yet high enough to preserve hydraulic energy and provide useful pressure to the distribution network without the need for additional pumping.

The context of the current operations provides the following hydraulic constraints. First, the existing hydraulic grade line at the Chance Hardy filter station under terminal head loss is shown in Table X.B-1. At the terminal head loss condition, the HGL is approximately 3382 feet at the filter station.

Table X.B-1: Hydraulic grade line at Chance Hardy filter station

HGL at Chance Hardy Filter Station		
Parameter	Clean Filters	Terminal Head Loss
Elevation (ft)	3151	3151
System Pressures (psi)	105	100
Total Head (ft)	3393	3382

WCWCD operates an existing 15-inch HDPE transmission line that runs north from the Chance Hardy Filter Station along Main Street. A target achievable hydraulic grade line was identified

after accounting for head loss along the line between the filter station and prospective pond sites. As the topography of LaVerkin slopes gradually upward to the north, and because more available parcels for siting a pond are also located on the north end of town, the longest potential fill line was assumed to extend to near the Interstate Rock pit, approximately 14,500 feet from the filter station.

The head loss at that distance was calculated based on the Hazen-Williams friction head loss formula shown in Equation 1.

Equation 1

$$h_f = \frac{3.022 v^{1.85} L}{C^{1.85} D^{1.17}}$$

Where h_f is the friction head loss in the pipe, v is the flow velocity in the pipe in ft/sec, L is the length of the pipe, C is a roughness coefficient dependent on the type of pipe material, and D is the pipe diameter in feet. Based on the calculated head loss, the approximate elevation range to which the Virgin River water can be delivered near the north end of the City is shown in Table X.B-2. A design fill rate of 2,500 gpm was used since this is slightly higher than the average demand in the peak month of July and would be required to keep the pond full at that demand. To provide a conservative buffer against variability in system performance and hydraulic conditions, a 10-foot safety factor was applied, establishing a target high-water elevation of between 3,320 and 3,330 feet for the proposed storage pond.

Table X.B-2: Target pond elevation range

Pond Elevation Range		
Design Flow Rate	2,500	gpm
Pipe Diameter, D	15	in
Flow Velocity, v	4.5	ft/sec
Pipe Length, L	14,500	ft
Roughness Coefficient, C	140	
Head Loss, h_f	51.9	ft
Maximum Pond Elevation at		
Terminal Head Loss	3330	ft
Clean Filters	3341	ft

To provide adequate pressure throughout LaVerkin's secondary system—where operating pressures typically range between 30 and 80 psi—the pond surface would need to be situated at least 70 to 185 feet above typical service elevations. Zion View Estates, at a typical elevation of 3290 feet, represents the highest point in LaVerkin's existing distribution system that receives typical irrigation pressures. Pressures are generally reduced in the higher Sunset View Estates. Without a booster pump, a pond elevation of approximately 3360 feet would be required to provide 30 psi pressure at Zion View Estates under peak instantaneous demand conditions.

Whereas this is higher than elevation to which the Virgin River water can be delivered, it was determined that a booster station would likely be required to raise the HGL of the pond.

Considerations were given to lifting water to a storage tank on the "Upper Bench". Through a cost-benefit analysis it was found that pumping water to the "Upper Bench" would be cost prohibitive. Feasible sites were therefore limited to the bench and hillside areas east of town.

ii) Target Storage Volume

The target storage volume for the proposed pond was determined based on LaVerkin City's projected irrigation demands in the highest demand year, projected by this Study in the year 2038. The goal was to provide storage capacity equal to at least two full days of demand in the average July month.

To estimate peak day demand, a peaking factor was applied to the average daily usage of lessees and contract holders. This peaking factor—calculated as the ratio of the average instantaneous demand in July to the average instantaneous demand—was found to be 1.52. The adjusted daily usage was then projected forward to the highest demand forecast year, 2038, to account for system growth. Under this worst-case scenario, the estimated peak day demand was calculated to be approximately 3.91 MGD, as shown in Table X.B-3.

Table X.B-3: Required storage capacity in projected peak demand year

Required Storage Capacity at Worst Case (2038) LaVerkin City Historic Peak Day Summer Month Consumption						
9345 gpd / ERU	X	254	ERU	=	2,370,665	gpd
843 gpd / ERU	X	1,826	ERU	=	1,539,989	gpd
1 Day Required Storage					3,910,654	gal.
2 Day Required Storage					7,821,308	gal.
Average Depth					10	ft
Required Pond Footprint					104,563	ft^2
Required Pond Footprint					2.40	acres

To meet the target of two days of storage, the required total storage volume was set at 7.82 million gallons, or approximately 24 acre-feet. For planning purposes, the pond was assumed to have an average depth of 10 feet. Based on that depth, the required surface area of the pond would be approximately 2.40 acres. This footprint informed the site selection process, ensuring each potential location could accommodate both the storage volume and pond grading.

iii) Operational Efficiency

The new storage facility would need to be integrated with LaVerkin City's existing distribution system. As such, the preferred location would utilize as much of the existing distribution system as possible to avoid costly improvements. Furthermore, costs of everyday operation such as pumping and maintenance or operation of the storage facility should be kept to a minimum.

iv) Site Suitability

In addition to hydraulic and operational criteria, the search for suitable sites required the availability of open land within the city boundaries capable of accommodating the proposed facility footprint. Each site requires consideration of how to resolve its own unique construction challenges.

Just as importantly, the land had to be owned by a party willing to sell to WCWCD.

XI. CONSIDERED POND SITE ALTERNATIVES

Given the selection criteria described, three candidate pond sites were identified, all on the north end of the City. Consideration was also given to siting a storage facility on the "Upper Bench." However, cost–benefit analysis showed that the pumping requirements for this option would be prohibitive. As a result, feasible locations were limited to bench and hillside areas east of town.

The location of the three potential pond sites, and the target contour line are shown in Appendix D of this report. An assessment of the three candidate sites is given in the following sections.

A. ALTERNATIVE 1 – PARCEL LV-154-A

i) Description

The first pond site is located on the foothills along the east side of LaVerkin City, near the north end of town. The property lies within the platted Cottonwood Hollow Phase 5 subdivision and is currently owned by Interstate Rock Products. The site is positioned on a hillside that contains elevations within the target range for storage. However, the area is characterized by relatively steep slopes, and portions of the site may be constrained by local hillside protection ordinances, which could limit the buildable area.

ii) Hydraulic Grade Line

The site is situated approximately 11,900 feet from the Chance Hardy Filter Station. At the design flow rate of 2,500 gpm, the calculated head loss along the 15-inch HDPE fill line is approximately 48.4 feet. Under these conditions, the Virgin River water could be delivered to a maximum elevation of roughly 3,330 to 3,340 feet, excluding the 10-foot factor of safety applied in previous evaluations.

The target elevation contour crosses the east side of this site. Substantial raising of the west side of the site would be required to attain a high-water elevation of 3320.

iii) Storage Volume

The challenging topography of the site would necessitate construction of an earthen embankment dam to provide adequate storage. Specifically, the west side of the site would require fill ranging from 20 to 40 feet in height to achieve the target pond elevation. Preliminary grading models assuming 2:1 interior side slopes and a maximum depth of 20 feet, indicate that, with a high-water elevation of 3,320 feet, the site could provide a total storage volume of approximately 7.3 million gallons (MG).

iv) Operational Efficiency

The site has several operational efficiencies. Firstly, the existing 15-inch HDPE line along Main Street could continue to be used as the pond fill line without requiring major realignment. Secondly, this site is approximately 6,000 feet from the CPWRF, meaning the generated reuse water could be delivered to the pond via a short and direct pipeline.

The pond would tie into LaVerkin's irrigation system from the north end with a new outlet line. To maintain existing service pressures, a booster pump station would be required. This station would house a high-flow, low-head pump designed to raise the HGL from the 3,320 foot pond elevation to approximately 3,375 feet.

v) Site Suitability

Several challenges affect the suitability of this site. The most significant physical constraint is the topography: the pond would be located on a hillside, requiring substantial grading. To achieve a target high-water elevation of 3,320 feet, the west embankment would need to be raised by importing fill material. Alternatively, if the pond elevation were lowered to reduce the amount of fill, the system would rely more heavily on booster pumps to meet required pressures, increasing ongoing operational costs.

Geotechnical considerations also introduce concerns. According to USGS Quaternary fault mapping, the Hurricane Fault is mapped as crossing the east side of this site. While a site-specific fault study conducted by Rosenberg Associates for the Cottonwood Hollow Phase 5 Subdivision did not identify any direct trace of the fault, its proximity and known seismic activity increase the risk of structural damage to a reservoir in the event of a significant earthquake. This geologic risk represents a notable disadvantage when evaluating the long-term reliability and safety of this location.

The site is owned by Interstate Rock Products, a landowner with an established and positive working relationship with WCWCD. Furthermore, due to the steep topography and hillside protection ordinances, portions of the property may be unsuitable for residential development.

B. ALTERNATIVE 2 – PARCEL T-3-1-13-40001

i) Description

The second alternative pond site is located in the Land at Mesa Views, within the Trail View Estates subdivision. The site lies just north of the access road running east–west north of the Interstate Rock pit. The proposed location is situated on a knoll, the top of which coincides with the target contour elevation of 3,320 feet. The knoll is a prominent landform and includes a portion of the popular Nephi's Twist trail, which would need to be considered in project planning.

ii) Hydraulic Grade Line

The site is approximately 14,500 feet from the filter station. Hydraulic modeling indicates that, accounting for head losses in the existing 15-inch HDPE line at the design flow of 2,500 gpm, water from the Virgin River could be delivered to the site at the target elevation of 3,320 feet while maintaining the 10-foot factor of safety. This makes the site hydraulically feasible within the established design parameters.

iii) Storage Volume

Preliminary grading analyses, assuming 2:1 interior side slopes and a maximum excavation depth of 20 feet, estimate a storage capacity of approximately 6.09 million gallons. The footprint of the knoll limits the achievable storage volume compared to other alternatives, though it still provides a usable capacity.

iv) Operational Efficiency

From an operational perspective, the existing 15-inch HDPE fill line could continue to serve as the pond fill line with only an extension required. However, the new outlet line connecting the pond to the distribution system would be longer than in other alternatives, leading to higher construction costs and a minor reduction in hydraulic efficiency.

Similar to the first alternative, a booster pump station would be required to raise the hydraulic grade from the pond elevation of 3,320 feet to approximately 3,375 feet to maintain the desired level of service across LaVerkin's irrigation system.

v) Site Suitability

Construction of a reservoir at this location would involve excavating into the knoll, resulting in a substantial net export of material. Given the proximity to Interstate Rock's active pit, the cost of material removal and export may be relatively low.

The site is located directly on a section of the Hurricane Fault that is mapped as concealed. A detailed fault hazard study would therefore be required prior to development. Geologic mapping indicates the knoll consists primarily of alluvial fan deposits. Nearby geologic formations may also provide suitable materials for use as pond liner construction, potentially reducing import costs for lining materials.

C. ALTERNATIVE 3 – PRIVATE PARCEL IN TRAIL RIDGE ESTATES

i) Description

The third alternative pond site is located within Trail Ridge Estates, just east of the second alternative along the same access road. The site occupies a natural drainage basin, the rim of which lies near the target contour elevation of 3,320 feet. The property is privately owned. Because of its natural basin configuration, the site was considered as a potential reservoir location with the idea that a dam across the west side of the basin could provide storage with minimal earthwork compared to hillside excavation alternatives.

ii) Hydraulic Grade Line

The rim of the basin lies at the target elevation contour of 3,320 feet. The site is located approximately 14,500 feet from the filter station. Hydraulic analysis indicates that water from the Virgin River could be delivered to the site at the design fill rate of 2,500 gpm while maintaining the 10 foot safety factor, making the site hydraulically feasible.

iii) Storage Volume

Although the basin appears favorable in aerial imagery, field reconnaissance and grading models show that it is relatively narrow and deep, with a limited surface area. Assuming 2:1 interior side slopes from the 3,320-foot contour, the pond would have a depth of approximately 40 feet and result in a total storage capacity of only 4.5 million gallons. This represents the smallest storage volume of the three alternatives, limiting the site's ability to meet seasonal irrigation demands.

iv) Operational Efficiency

Operationally, this site would function similarly to the second alternative. The existing 15-inch HDPE fill line could continue to serve as the pond fill line with an extension, while a new outlet line would need to be constructed to connect to the distribution system. A booster pump station would also be required to raise the hydraulic grade from 3,320 feet to approximately 3,375 feet to maintain current service levels.

v) Site Suitability

The limited storage volume and challenging geometry make this site less desirable than the other alternatives. A deep dam embankment would be required across the drainage basin, introducing both construction challenges and long-term stability risks.

In addition, because the site is an active drainage basin, a streamflow alteration permit would be required, and the reservoir would need to accommodate inflow from the basin's design flood.

The limited surface area and steep basin walls leave little additional storage capacity to safely route storm inflows, increasing the complexity and risk of development.

D. COMPARISON OF POND SITE ALTERNATIVES

The three pond sites present advantages and challenges that influence their overall suitability.

The first site (Cottonwood Hollow Phase 5) offers the greatest storage capacity at approximately 7.3 MG, with room to expand. However, it requires significant embankment construction on steep hillsides. Additionally, its proximity to the Hurricane Fault introduces long-term seismic risk, making it less favorable from a geotechnical standpoint.

The second site (Mesa Views / Trail View Estates knoll) provides moderate storage at approximately 6.1 MG and is situated on a knoll at the target elevation, minimizing the need for high embankment fills. However, it would require substantial excavation with a large net export of material. While the proximity to Interstate Rock's pit may mitigate costs, the site sits directly on a mapped concealed trace of the Hurricane Fault, requiring additional fault studies. The site would also require longer outlet connections, slightly reducing operational efficiency compared to the first site.

The third site (Trail Ridge Estates drainage basin) presents the lowest storage volume at only 4.5 MG, which significantly limits its ability to meet irrigation demands. While it appears attractive as a natural basin with a rim at the correct elevation, detailed evaluation shows that it would require a tall embankment dam, creating both construction and long-term stability concerns. Further complications include the need for a streamflow alteration permit and limited space to route storm inflows, reducing both safety and reliability.

A comparison of the three alternatives is given in Table XI.D-1.

Table XI.D-1: Comparison of alternative pond sites

Alternative Pond Site Comparison			
	Alternative 1	Alternative 2	Alternative 3
Location (Parcel ID)	LV-154-A	T-3-1-13-40001	NA
Parcel ID	Cottonwood Hollow Ph 5	Land in Mesa Views at Trail Ridge Est.	Trail Ridge Estates
Hydraulic Grade Line	Interstate Rock Products	Sanpete Investors, LLC - Lloyd Baker	Privately Owned
Storage Volume (gal)	7,325,695.08	6,090,305.76	4,536,221.54
Surface Area (ft2)	71,330.84	60,567.67	39,266.18
Depth	20.00	20.00	40.00
Average Depth	13.78	13.45	24.75
High Water El.	3,320	3,320	3,320
Pros	•Most storage capacity •Possibility to expand •Landowner is favorable to project	•Simplified construction methods •Safer site •Proximity to Interstate Rock pit	•Existing basin and site access •Proximity to Interstate Rock pit
Cons	•Substantial import material required •Likely high hazard rating •Proximity to Hurricane Fault	•Substantial export material required •Inability to expand •Outside of LaVerkin City limits	•Substantial inflow design flood •Deep fill dam required •Outside of LaVerkin City limits

XII. SELECTED ALTERNATIVE

Alternative 3 was quickly eliminated from consideration. While the natural basin initially appeared attractive, the steep and confined topography limited usable storage volume to only 4.5 million gallons. Achieving this volume would require a tall embankment dam, introducing construction challenges and long-term stability concerns. In addition, development of this site would trigger streamflow alteration permitting due to the large contributing drainage basin, further complicating its feasibility.

Between Alternative 1 and Alternative 2, both sites were determined capable of meeting system demands with near equal efficiency. Each would require similar integration projects—including extension of the existing 15-inch HDPE fill line, construction of a booster pump station, and new outlet connections to the irrigation system. At a high level, construction at Site 2 appeared somewhat more straightforward, as the pond would be excavated into a knoll rather than constructed with a large embankment. However, both sites presented geotechnical risks associated with the Hurricane Fault and would require detailed fault investigations prior to construction.

Ultimately, Alternative 1 was selected as the preferred option due to its larger storage capacity, and the positive working relationship between WCWCD and the landowner, Interstate Rock Products. Preliminary discussions with the landowner regarding use of the property for a reservoir were favorable, providing additional assurance of project feasibility. Site 2 remains identified as a potential backup location should issues arise during more detailed investigations at Site 1.

This section discusses the requirements to construct and integrate the pond in greater detail.

A. REQUIRED SYSTEM IMPROVEMENTS

The preferred alternative pond site was evaluated using network hydraulic modeling to assess system performance following its integration into the irrigation network. The evaluation was guided by the following performance criteria:

- Provide irrigation water of equal or better quality than that currently delivered,
- At pressures equal to or greater than those currently delivered, even under projected future demands.

Hydraulic modeling evaluated combinations of pipeline sizes, lengths, and configurations to identify the minimum set of projects necessary to satisfy these performance criteria. Through this iterative process, a system of improvements was developed that satisfies the performance requirements.

For the ease of construction phasing, the required system improvements are divided into two projects. The first project consists of those improvements needed to construct and fill the pond, and connect the pond to the existing irrigation system, known as the LaVerkin Pond & Pipeline improvements. The second project consists of the pipeline improvements required to maintain the existing levels of service, known as the LaVerkin Transmission Line improvements.

i) LaVerkin Pond & Pipeline Improvements

1. Construction of a pond to store approximately 8 million gallons of irrigation water.
2. Extension of the existing 15-inch HDPE fill line from 500 North to the pond. From 500 North, the fill line transitions from 15-inch to 18-inch diameter.
3. Construction of a new 24-inch transmission line from the pond site to 500 North, where it will be bored under 500 North and tied into the existing 15-inch trunkline along 100 East.
4. Construction of a booster pump station to raise the hydraulic grade by approximately 80 feet (~35 psi), ensuring the pond can pressurize the distribution system and maintain existing levels of service.

ii) LaVerkin Transmission Line Improvements

1. Repurposing of an existing, unused 10-inch culinary water crossing beneath State Street as part of the secondary irrigation system. Downstream of this crossing, an existing 6-inch line will be replaced with a new 10-inch trunkline extending to 500 North and westward to 360 West. The 10-inch trunkline will also extend along 300 West between 500 North and 200 North.
2. Installation of a new 8-inch looping line to connect 360 West with 600 North.

The proposed booster pump station will be somewhat unique in that the required pump head is essentially constant at about 80 feet (~35 psi), while the flow range will vary from near zero up to the maximum projected demand of 3,590 gpm. To reliably meet this demand, this Study anticipates installation of a multi-stage vertical centrifugal pump capable of operating efficiently across this flow range and delivering the necessary pressure increase to the irrigation distribution system.

Hydraulic modeling of the improved network indicates that the proposed configuration maintains, and in most areas improves, levels of service across LaVerkin City. Modeled results show an average increase of approximately 6 psi in system pressure.

The scope of these projects is illustrated in Appendix E of this report.

B. BOOSTER STATION EVALUATION

A high-level evaluation was performed to estimate the expected capital, operation, and maintenance (O&M) costs of the proposed booster station facility at the preferred alternative. The analysis was intended to establish a realistic expectation of long-term ownership costs and provide a basis for comparing alternatives.

For the purposes of this Study, it was assumed that booster station would serve only the lower bench demand. Electricity rates were based on Rocky Mountain Power's 2024 commercial service schedule. Assumptions on other pumping characteristics are given in Table XII.B-1.

Table XII.B-1: Assumed pumping characteristics

Parameter	Summer	Spring/Fall
Peak Demand (gpm)	3,590.4	2,715.2
Average Demand (gpm)	2,715.2	1,795.2
Pump Head Required (ft)	80.0	80.0
Pump Head Required (psi)	34.7	34.7
Daily Peak Pumping Time (hours)	4.0	2.0
Daily Average Pumping Time (hours)	12.0	8.0

Using the given assumptions, the required pump performance characteristics, and the monthly electricity costs for both the summer and spring/fall seasons were determined. These are presented in Table XII.B-2.

Table XII.B-2: Required pump performance characteristics

Parameter	Summer	Spring/Fall
Average Brake hP Required (hP)	78.5	51.9
Peak Brake hP Required (hP)	103.7	78.5
Average Demand Input Power (hP)	104.6	69.2
Peak Demand Input Power (hP)	138.3	104.6
Daily kWH	1,347.4	568.1
Electrical Base Charge	$320.00	$320.00
Monthly Electricity Cost	$3,011.21	$1,454.63
Monthly Pump Hours (hours)	480.0	300.0

Additional pumping and storage alternatives were also evaluated to assess the feasibility of extending irrigation service to LaVerkin's upper bench. The evaluation found that these options would result in significantly initial construction costs and higher operating costs, with estimated

pumping expenses on the order of three to four times greater than those for the lower bench booster station.

Based on this cost analysis, it was ultimately determined that extending irrigation water service to the upper bench was not financially viable.

C. POND CONSTRUCTION

The proposed irrigation pond at the selected site was evaluated for constructability to establish a basis for the cost estimates included in this Study. Due to the proximity of the site to residential areas and schools, and at an elevation above surrounding development, the pond was assumed to be constructed as a synthetically double-lined system to provide reliable water retention and minimize seepage risk.

The embankment was modeled as a homogenous rolled earth embankment with typical 3:1 interior side slopes and 2:1 exterior side slopes. The preliminary grading models of the site indicate the approximate earthwork necessary to construct the pond. Based on the preliminary site grading, approximately 1500 cubic yards of net import is required as shown in Table XII.C-1.

Table XII.C-1: Estimated earthwork volumes from preliminary site grading

Approximate Earthwork Volumes	
Cut (yd^3)	9,621.09
Fill (yd^3)	11,067.17
Net (yd^3)	1,446.08

In addition to the lined embankment, it was assumed that a separate settling basin or transfer structure would be constructed upstream of the pond. This facility would allow sediment to settle out of the Virgin River water prior to entering the pond, thereby extending the useful life of the liner system and reducing long-term maintenance.

The proposed pond, booster pump facility, and pipe network improvements will hereafter be called collectively the LaVerkin Pond & Pipeline Project. An opinion of probable cost for the LaVerkin Pond & Pipeline project is provided in Appendix F of this report.

XIII. SUMMARY OF RECOMMENDED IMPROVEMENTS

Recommended system improvements have been given in Section IX.C and X.G of this Study.

A. RECOMMENDED SYSTEM IMPROVEMENTS

Table XIII.A.1 below shows a summary of each recommended improvement, along with its expected year of construction, estimated cost, and inflated costs. Inflation costs for this Study assume a 3% increase per year.

Table XIII.A-1: Cost summary of recommended system improvements

Project	Current Cost Estimate	Est. Year of Installation	Estimated Inflated Costs
LaVerkin Pond & Pipeline Project	$ 7,376,300.00	2026	$ 7,597,600.00
LaVerkin Transmission Line Improvements	$ 1,152,100.00	2026	$ 1,186,700.00
LaVerkin City In-Town Replacements	$ 10,111,800.00	2026	$ 10,415,200.00
100 E Transmission Line Improvement	$ 2,487,200.00	2026	$ 2,561,800.00
Capital Facilities Plan and IFFP & IFA Update (2030)	$ 64,600.00	2030	$ 74,900.00
Capital Facilities Plan and IFFP & IFA Update (2035)	$ 64,600.00	2035	$ 86,800.00
Total	**$ 21,256,600.00**		**$ 21,923,000.00**

B. ENGINEER'S OPINION OF PROBABLE COST

An Engineer's Opinion of Probable Cost (EOPC) for each recommended improvement has been included in Appendix F. Opinions of probable cost of each of the recommended improvements are based on experience with similar projects, bid tabulations from past projects, and from information provided by the City through prior experience.

The opinions of probable project costs included in this report are planning-level costs only. As the City seeks to undertake specific projects, more detailed and updated costs should be prepared to guide project development through the preliminary engineering and budgeting phases of the project.

C. POSSIBLE FINANCING PLAN

The City is in discussion with WCWCD to provide funding for the capital improvement projects listed in Table XIII.A.1. The Capital Facilities Plans are anticipated to be paid for with impact fee money. Therefore, this Study did not investigate funding agency options or provide a possible financing plan.

The calculations in the subsequent sections of this report assume that the costs of the recommended improvements will be paid for by WCWCD. If funding is not available through WCWCD, it is recommended that the City reevaluate the financial analysis provided in the subsequent section.

XIV. FINANCIAL ANALYSIS

LaVerkin City has different secondary water user rate structures for delivery contract holders and for lease users.

A. EXISTING DELIVERY CONTRACT RATE

The current fee schedule for delivery contract holders is shown in Table XIV.A-1. Each contract holder is assessed a one-time annual fee of $50.89 and $25.45 for the first share equivalent or partial share equivalent of secondary water. For each additional share equivalent, delivery contract holders pay a twice annual fee of $12.72.

Based on the existing billing records, the average delivery contract holder owns a delivery contract worth an average of 1.51 share equivalents. The average annual fee paid by a delivery contract holder is therefore equal to the one-time assessment fee plus an additional $38.51 for additional share equivalents. The total annual fee is equal to $89.40, or $9.93 per month on a 9-month irrigation schedule.

Table XII.A-1: LaVerkin City existing delivery contract holder fee schedule

Delivery Contract Holder Fee Schedule		
Annual Assessment Fee	$	50.89
Usage Fee - 1 Share or Less	$	25.45
Usage Fee - Additional Contracts	$	12.72
Average Number of Share Equivalents Held		1.51
Average Contract Holder Usage Fee	$	38.51
Average Annual Contract Holder Fee	**$**	**89.40**
Average Monthly Contract Holder Fee	**$**	**9.93**
Annual Contract Holder Fees Collected	**$**	**26,103.72**

B. EXISTING LEASE USER RATE

The fee schedule for lease users of secondary water is presented in Table XIV.B-1 and is dependent upon the lot size of the end user. The monthly fee assessed for lots one acre and larger is $25.42, for lots smaller than one-half acre-$12.72, and for lots between one-half acre and one acre-$19.08.

The monthly cost for a typical lease user, based on a weighted average, is $13.02.

Table XII.B-1: LaVerkin City existing lease user fee schedule

Existing Lease User Cost		
Lot Size	**Existing Users (2025)**	**Billing Schedule**
Lots < 1/2 Acre	780	$ 12.72
Lots 1/2 Acre to <1 Acre	18	$ 19.08
Lots > 1 Acre	10	$ 25.45
Total Users (2025)	808	
Monthly Leasee Fees Collected	$	**10,519.54**
Average Leasee User Monthly Cost	$	**13.02**
Annual Lease User Fees Collected	$	**94,675.86**

C. REQUIRED AVERAGE RATE DETERMINATION

This Study provides an average rate analysis to determine the average rate required by each connection in order to cover the expenses of the secondary water system. The analysis uses recent fiscal year expenses and annual budgets to project the expenses in fiscal year 2026. New expenses associated with the implementation of the new booster pump station to support the recommended pond alternative are also considered. This analysis considers projected expenses and income sources to determine the amount of revenue needed to be generated by user rates.

The target revenue needed from user rates is divided by the estimated number of connections serviced by the system and converted to an average monthly user rate. This gives an average user rate needed per connection to cover the expenses of the secondary water system. The analysis results in an average user rate per connection of $21.99/mo., based on a 9-month irrigation schedule. The user rate analysis is presented in Table XIV.C-1.

Table XII.C-1: LaVerkin City average user rate analysis

LAVERKIN CITY AVERAGE USER RATE DETERMINATION FY 2026	
Irrigation Fund O&M Expenses (FY 2026)	**Total**
Salaries, Benefits, & Pension	$ 133,404.00
New Water Mains, Water Main Repair & Contractual Services	$ 21,557.12
Phone, Office, Material & Equipment Supplies	$ 11,250.66
Depreciation / Rewnewal & Replacement Expense	$ 18,811.40
Insurance	$ 7,832.68
Booster Pump O&M	$ 47,750.00
Total Water Fund O&M Expenses	**$ 240,605.86**
EXISTING DEBT SERVICE	
2010 Irrigation Water Revenue Bond	$ 11,000.00
Subtotal Existing Debt Service	**$ 11,000.00**
Total Debt Service/Financial Expense	**$ 11,000.00**
Other Income (Besides Water Sales)	
Impact Fees	$ 2,174.56
Interest Earned	$ 1,600.00
Connection Fees	$ 4,538.80
Assessment Fees	$ -
Other (Penalties & Miscellaneous)	$ 1,592.20
Total Other Income	**$ 9,905.56**
Expenses Less Income	**$ 241,700.30**
Required Costs Per Connection	
Connections (FY 2026)	1,222
Average Monthly Use/Billed Connection (Gal)	62,323
Monthly Cost/Connection in FY 2026	**$ 21.99**
Annual Cost/Connection in FY 2026	**$ 197.84**
Cost/1000 Gallons	**$ 0.35**

D. FEE SCHEDULE DETERMINATION

Based on the anticipated revenue deficits under the existing user rate structure, the analysis shows that the City will not be able to cover the projected capital, operation, and ongoing maintenance expenses of the secondary water system if rates remain unchanged.

To ensure the system remains financially sustainable, it is recommended that the City establish a revised rate structure that generates sufficient revenue to meet these expenses. The financial analysis indicates that an average user rate of $21.99 is needed to balance revenues and costs. There are multiple approaches available to achieve this target.

This Study provides a possible rate structure that is an adaptation of the existing rate structure, which will provide enough revenue to cover the anticipated system costs. Sunrise worked with City staff and elected officials to adapt the existing user rate structure to meet the projected expenses. The proposed rate structure is given in Table XIV.D-1.

Table XII.D-2: Proposed adjusted secondary water fee schedule

Proposed Lease User Fees			
Lot Size	**Number of Users**	**Monthly Billing Schedule**	**% Increase From Existing**
Lots < 1/2 Acre	780	$ 23.97	88%
Lots 1/2 Acre to <1 Acre	18	$ 35.95	88%
Lots > 1 Acre	10	$ 47.94	88%
Proposed Contract Holder Fees			
Annual Contract Holder Assessment Fee		$ 140.00	175%
Annual Usage Fee - 1 Share or Less		$ 47.94	88%
Bi-Annual Usage Fee - Additional Contracts		$ 23.97	88%

XV. IMPACT FEES

This report constitutes a Capital Facilities Plan, which determines the public facilities required to serve new development. A community may charge an impact fee to provide funding for projects required by this growth. The total cost that is eligible for the impact fee assessment is equal to the portion of any planned improvement projects that will be constructed in the planning window. The combined costs for these projects are divided by the projected number of new connections that will be added to the secondary water system to determine the impact fee allowable.

A. EXISTING IMPACT FEES

The existing impact fees charged by the City for secondary water connections is shown in Table XV.A-1. The existing impact fees are associated with residential zoning.

Table XV.A-1: LaVerkin City existing secondary water impact fee schedule

LaVerkin City Secondary Water Impact Fee Schedule	
Zoning	Impact Fee
R-A-1	$ 6,644.00
R-1-14	$ 1,545.00
R-1-10	$ 850.00
R-1-8	$ 618.00
R-3-6	$ 386.00

B. PROPOSED IMPACT FEES

This Study includes an Impact Fee Analysis to determine the maximum allowable impact fee that the City can assess as its secondary water impact fee. As stated above, an impact fee covers the cost of projects falling within the planning window, which for this analysis is 10 years. The impact fee can also cover debt services for past projects that can be attributed to growth.

According to state impact fee laws, impact fees must be used within six years of their receipt. This Study accounts for incoming fees to be used for eligible projects and debts in the continuous six-year window.

As stated in Section XI.C, this Study assumes that the recommended improvements will be funded by WCWCD. Where these projects are being funding by WCWCD and anticipated to be constructed in the near future they are not considered impact fee eligible. This Study does include a recommendation for future updates to this Study every 5 years. According to the impact fee law these updates are considered 100% impact fee eligible.

Based on these assumptions, the maximum allowable impact fee for a new 1-inch secondary water connection is calculated to be $241.62. See Table XIII.B-1 for the impact fee analysis.

Table XV.B-1: LaVerkin City allowable impact fee determination

LaVerkin City Impact Fee Analysis						
Existing Debt Service	**Debt to be paid 2025-2034**				**IF Eligibility (%)**	**IF Eligibility ($)**
2010 Irrigation Water Revenue Bond	$ 117,000.00				0%	$0.00
Subtotal	$ 117,000.00				0%	$0.00
Secondary Water Improvements Project	**Total Estimated Project Costs**	**Year of Improvement**	**Inflated Costs ($)**	**Financed Cost ($)**	**IF Eligibility (%)**	**IF Eligibility ($)**
LaVerkin City In-Town Replacements	$ -	2026	$ -	$0.00	0.0%	$0.00
100 E Transmission Line Improvement	$ -	2026	$ -	$0.00	0.0%	$0.00
Subtotal	$ -		$ -	$0.00	0.0%	$0.00
Future Planning Projects	**Current Cost**	**Year of Improvement**	**Inflated Costs ($)**	**Financed Cost ($)**	**IF Eligibility (%)**	**IF Eligibility ($)**
Capital Facilities Plan and IFFP & IFA Update	$ 64,600.00	2030	$ 74,900.00		100%	$ 74,900.00
Capital Facilities Plan and IFFP & IFA Update	$ 64,600.00	2035	$ 86,800.00		100%	$ 86,800.00
Subtotal	$ 129,200.00		$ 161,700.00			$ 161,700.00
Total Impact Fee Eligible						$161,700.00
Number of New Irrigation Connections by 2035						669
Maximum Allowable Impact Fee per Connection						$241.62

Whereas larger meter connections are considered to consume larger amounts of secondary water, these are therefore required to pay a higher impact fee based on the meter size. The maximum allowable impact fee for each meter size is shown in the table below.

Table XV.B-2: LaVerkin City proposed secondary water impact fee schedule

LaVerkin City Secondary Water Proposed Impact Fee Schedule	
Meter Size	Impact Fee
1"	$ 241.62
2"	$ 569.30
3"	$ 948.83
4"	$ 1,328.37
6"	$ 3,795.33

C. IMPACT FEE RELATED ITEMS

In general, it is beneficial to update this impact fee facilities plan analysis at least every five years, or more frequently if drastic growth or changes affect the assumptions and data in this Study. It is assumed that this Study will be updated as recommended.

City staff should be aware that, in conformance with Utah Code 11-36a-602, impact fees can generally only be expended for a system improvement that is defined in the Impact Fee Facilities

Plan and that is for the specific public facility type for which the fee was collected (i.e., the transportation impact fees cannot be used for water or sewer projects). Also, impact fees in Utah must be expended or encumbered for a permissible use within six years of their receipt unless 11-36a-602(2)(b) applies. Additionally, impact fees must have proper accounting (track each fee in and out) in accordance with Utah Code 11-63a-601.

In accordance with Utah Code 11-36a-306 a certification of impact fee analysis is provided in Appendix G.

D. CONNECTION FEE

Currently the City charges a $100 connection fee for any new service that is connected to the system. According to Utah State Law, connection fees are not to be more than the actual cost of establishing the connection including a water meter and labor to connect the meter to the water main line.

These fees should be looked at periodically and adjusted as prices for materials and labor increases.

E. CASH FLOW

A 20-year cash flow analysis was prepared as part of this Study. This cash flow shows several years of past revenues and expenses, along with twenty years of projected revenues and expenses for the secondary water system. These projections are based on assumptions of inflation, growth, average rates, proposed projects, etc. Calculations for average rates and impact fees have been carried over to the cash flow analysis. The cash flow analysis is presented in Appendix I.

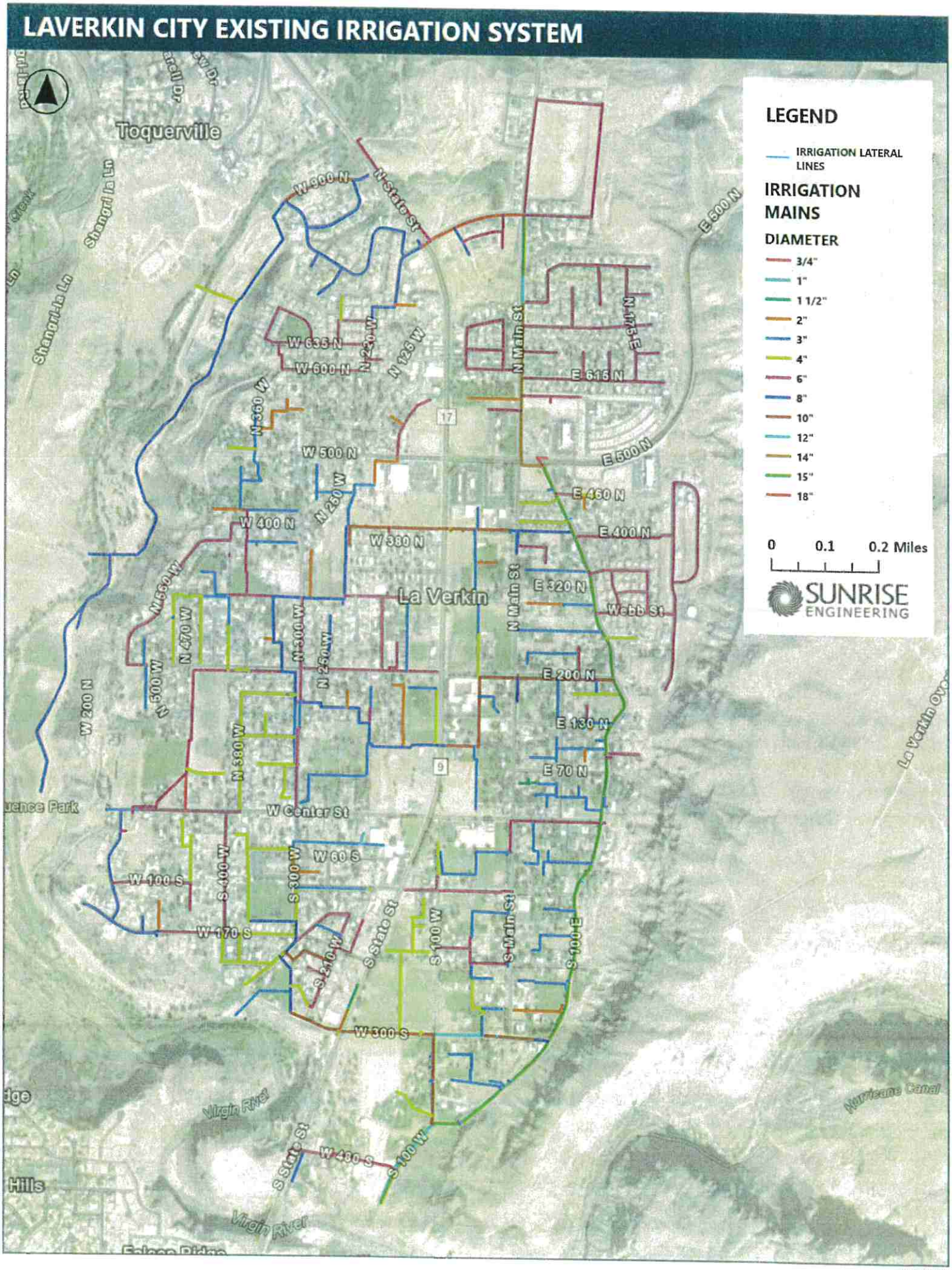
Secondary water user rates and fees should be reviewed by the City periodically to ensure that they keep up with inflation and increased costs in system maintenance. LaVerkin City does not have to adopt the amounts shown in the rate analysis. However, the rates suggested are calculated to cover the anticipated expenses and ensure that the water fund remains viable.

APPENDIX A

LaVerkin City

Secondary Water System Map

LAVERKIN CITY EXISTING IRRIGATION SYSTEM

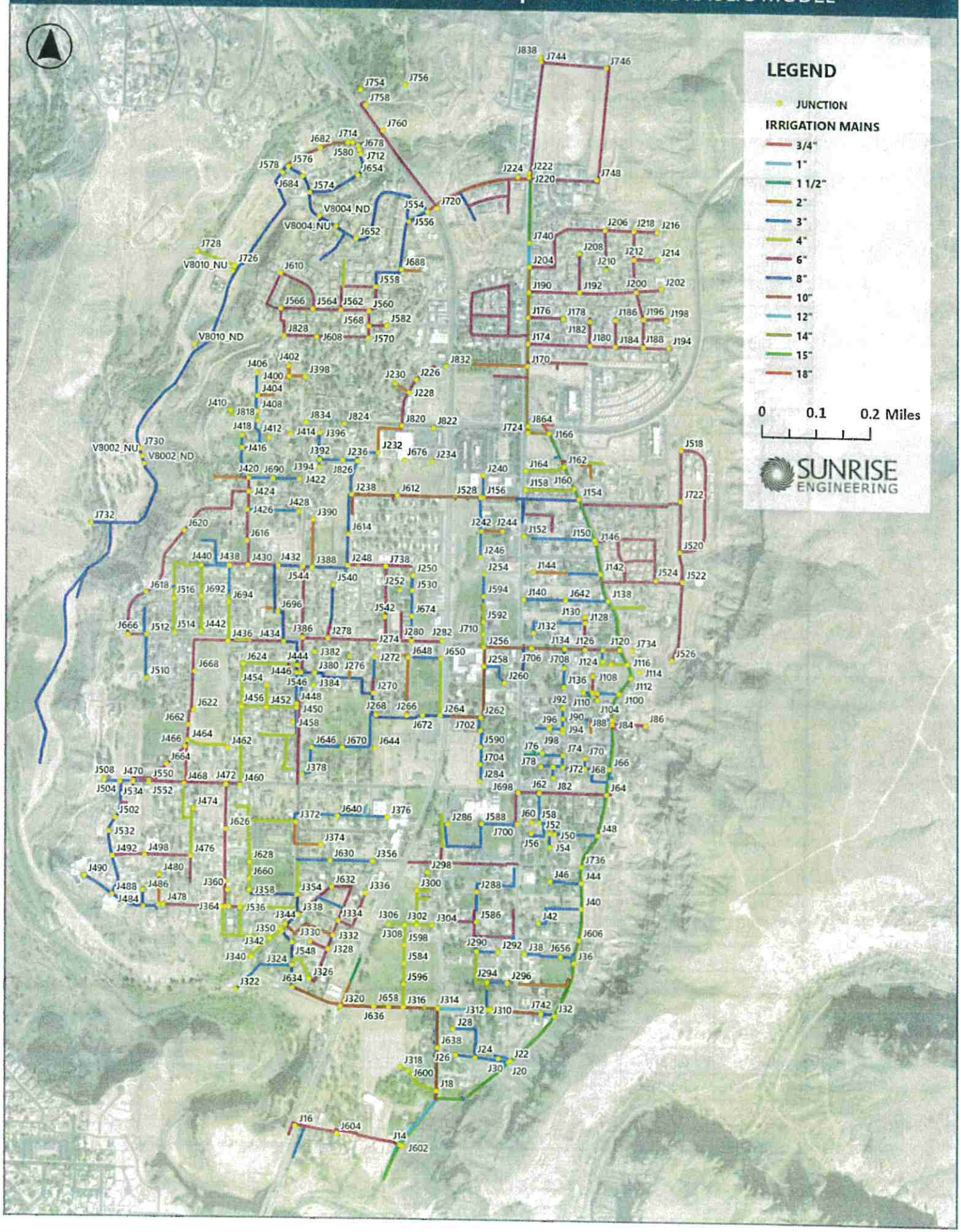


7/26/2025

APPENDIX B

Network Hydraulic Model & Output
AquaTwin by Aquanuity

LAVERKIN CITY EXISTING IRRIGATION SYSTEM | NETWORK HYDRAULIC MODEL



7/28/2025

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J100	1125999.3	10043006	3254	4.24	3384.96	56.75
J102	1125788.6	10043009	3236	4.24	3384.59	64.38
J104	1125787.1	10042941	3240	4.24	3384.58	62.65
J106	1125744.9	10043014	3234	4.24	3384.56	65.24
J108	1125746.4	10043169	3238	4.24	3384.56	63.5
J110	1125653.1	10043014	3227	4.24	3384.55	68.27
J112	1126111	10043156	3255	4.24	3384.92	56.3
J114	1126189.2	10043213	3260	4.24	3384.83	54.09
J116	1126077.9	10043285	3250	4.24	3384.89	58.45
J118	1125925.8	10043283	3244	4.24	3384.89	61.05
J120	1126005.6	10043423	3248	4.24	3384.86	59.3
J122	1125841.3	10043421	3242	4.24	3384.74	61.85
J124	1125842.9	10043313	3239	4.24	3384.73	63.15
J126	1125666.8	10043422	3228	4.24	3384.63	67.87
J128	1125668.3	10043677	3232	4.24	3384.46	66.06
J130	1125668.3	10043732	3233	4.24	3384.45	65.62
J132	1125164.1	10043574	3220	4.24	3384.4	71.24
J134	1125471.1	10043427	3218	4.24	3384.51	72.15
J136	1125463.6	10043063	3215	4.24	3384.44	73.42
J138	1125894	10043888	3247	4.24	3384.85	59.73
J14	1123884.3	10038702	3170	4.24	3386.87	93.97
J140	1125067.4	10043894	3220	4.24	3384.68	71.36
J142	1125820	10044147	3253	4.24	3384.85	57.13
J144	1125157.7	10044156	3229	4.24	3384.79	67.5
J146	1125772	10044440	3249	4.24	3384.84	58.86
J150	1125760.2	10044468	3249	4.24	3384.84	58.86
J152	1125070.4	10044495	3230	4.24	3384.78	67.07
J154	1125604.7	10044857	3250	4.24	3384.84	58.43
J156	1124669.9	10044862	3224	4.24	3384.41	69.51
J158	1125083.8	10044940	3234	4.24	3384.84	65.36
J16	1122873.1	10038869	3220	4.24	3386.87	72.3
J160	1125559.4	10044955	3250	4.24	3384.85	58.43
J162	1125461.5	10045164	3250	4.24	3384.86	58.43
J164	1125082.3	10045119	3237	4.24	3384.85	64.06
J166	1125311.2	10045480	3248	4.24	3384.87	59.31
J170	1125095.7	10046118	3253	4.24	3384.82	57.12
J174	1125098.7	10046332	3255	4.24	3384.8	56.24
J176	1125100.3	10046582	3252	4.24	3384.78	57.53

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J178	1125446.5	10046575	3264	4.24	3384.78	52.33
J18	1124240	10039216	3210	4.24	3386.65	76.54
J180	1125708.8	10046321	3268	4.24	3384.72	50.58
J182	1125708.8	10046551	3274	4.24	3384.72	47.98
J184	1125954.1	10046316	3277	4.24	3384.7	46.67
J186	1125958.6	10046567	3282	4.24	3384.7	44.5
J188	1126222	10046313	3287	4.24	3384.7	42.33
J190	1125106.7	10046822	3249	4.24	3384.76	58.82
J192	1125604.9	10046828	3267	4.24	3384.72	51.01
J194	1126476.6	10046310	3290	4.24	3384.69	41.03
J196	1126225.2	10046578	3288	4.24	3384.69	41.9
J198	1126452.5	10046572	3290	4.24	3384.69	41.03
J20	1124935.7	10039498	3260	4.24	3386.3	54.72
J200	1126153	10046838	3286	4.24	3384.69	42.76
J202	1126401.3	10046870	3290	4.24	3384.69	41.03
J204	1125109.7	10047063	3250	4.24	3384.74	58.38
J206	1125853.2	10047423	3272	4.24	3384.7	48.83
J208	1125600.4	10047197	3268	4.24	3384.72	50.57
J210	1125865.3	10047045	3275	4.24	3384.69	47.53
J212	1126130.5	10047146	3284	4.24	3384.69	43.63
J214	1126359.2	10047149	3290	4.24	3384.69	41.03
J216	1126359.2	10047412	3285	4.24	3384.69	43.2
J218	1126130.5	10047418	3278	4.24	3384.69	46.23
J22	1124947.8	10039509	3260	4.24	3386.28	54.72
J220	1125104.9	10047917	3205	4.24	3384.7	77.86
J222	1125104.9	10047957	3205	4.24	3384.7	77.86
J224	1124995	10047917	3197	4.24	3384.7	81.33
J226	1124010.1	10045975	3250	4.24	3379.12	55.95
J228	1123938.1	10045852	3250	4.24	3379.21	55.99
J230	1123803.7	10045935	3245	4.24	3379.11	58.11
J232	1123645.1	10045276	3242	4.24	3383.17	61.17
J234	1124171.6	10045197	3230	4.24	3383.05	66.32
J236	1123445.4	10045194	3248	4.24	3383.86	58.87
J238	1123390.9	10044874	3240	4.24	3383.93	62.36
J24	1124612.1	10039537	3227	4.24	3386.07	68.93
J240	1124671	10045070	3230	4.24	3384.4	66.9
J242	1124652.8	10044538	3220	4.24	3384.18	71.14
J244	1124858.6	10044541	3218	4.24	3384.16	72

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J246	1124643.7	10044290	3218	4.24	3384.16	72
J248	1123356.6	10044196	3234	4.24	3383.46	64.76
J250	1123989.9	10044107	3214	4.24	3382.67	73.08
J252	1123858.9	10043966	3210	4.24	3382.6	74.79
J254	1124682.6	10044130	3212	4.24	3383.69	74.39
J256	1124684	10043432	3205	4.24	3384.12	77.61
J258	1124684	10043249	3203	4.24	3384.04	78.45
J26	1124424	10039560	3211	4.24	3386.06	75.85
J260	1124881.9	10043093	3198	4.24	3384.02	80.6
J262	1124653.5	10042762	3194	4.24	3383.87	82.27
J264	1124261.5	10042774	3190	4.24	3383.76	83.96
J266	1123934.2	10042774	3190	4.24	3383.56	83.87
J268	1123637.4	10042774	3190	4.24	3383.42	83.81
J270	1123610.7	10042979	3200	4.24	3383.34	79.44
J272	1123619.5	10043324	3207	4.24	3383.34	76.41
J274	1123621.4	10043427	3212	4.24	3383.28	74.21
J276	1123381.7	10043327	3221	4.24	3383.19	70.28
J278	1123166.1	10043500	3225	4.24	3383.12	68.51
J28	1124399.9	10039807	3203	4.24	3386.03	79.31
J280	1123977.2	10043483	3198	4.24	3383.12	80.21
J282	1124278.7	10043485	3198	4.24	3383.12	80.21
J284	1124647.5	10042156	3188	4.24	3383.55	84.73
J286	1124341.1	10041745	3188	4.24	3384.95	85.34
J288	1124622.2	10041108	3188	4.24	3385.64	85.64
J290	1124622.2	10040543	3195	4.24	3385.76	82.66
J292	1124828	10040539	3198	4.24	3385.74	81.35
J294	1124725.1	10040253	3195	4.24	3385.87	82.71
J296	1124918.3	10040249	3203	4.24	3385.86	79.23
J298	1124145.4	10041286	3188	4.24	3385	85.36
J30	1124834.9	10039531	3244	4.24	3386.27	61.64
J300	1124042.5	10041114	3188	4.24	3385	85.36
J302	1124040.4	10040785	3189	4.24	3385.03	84.94
J304	1124195.8	10040785	3188	4.24	3385.03	85.37
J306	1123769.5	10040791	3189	4.24	3385.06	84.95
J308	1123922.8	10040785	3189	4.24	3385.06	84.95
J310	1124727.2	10039992	3198	4.24	3386.03	81.47
J312	1124756.6	10039992	3198	4.24	3386.03	81.47
J314	1124252.5	10039999	3195	4.24	3386.03	82.77

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J316	1123914.4	10040005	3193	4.24	3385.81	83.55
J318	1123886.8	10039438	3210	4.24	3386.62	76.53
J32	1125375.6	10039941	3260	4.24	3386.03	54.61
J320	1123306.8	10040009	3190	4.24	3385.52	84.72
J322	1122289.5	10040159	3030	4.24	3385.15	153.89
J324	1122839.8	10040396	3184	4.24	3385.21	87.18
J326	1122999.4	10040261	3186	4.24	3385.07	86.26
J328	1123180.1	10040549	3182	4.24	3385.07	87.99
J330	1123007.8	10040618	3178	4.24	3385.09	89.73
J332	1123230.5	10040679	3182	4.24	3385.06	87.98
J334	1123283	10040818	3179	4.24	3385.05	89.28
J336	1123545.5	10041082	3185	4.24	3384.73	86.54
J338	1122894.4	10040872	3178	4.24	3385.02	89.7
J340	1122440.4	10040465	3169	4.24	3384.61	93.43
J342	1122623.3	10040641	3178	4.24	3384.62	89.53
J344	1122772.2	10040780	3178	4.24	3385.07	89.72
J346	1122741.5	10040713	3178	4.24	3385.08	89.73
J350	1122729.7	10040740	3178	4.24	3385.07	89.72
J352	1122722.3	10040733	3178	4.24	3385.08	89.73
J354	1122884.2	10041060	3183	4.24	3384.96	87.51
J356	1123612	10041383	3188	4.24	3384.9	85.32
J358	1122415.4	10041101	3192	4.24	3384.95	83.6
J36	1125567.1	10040443	3255	4.24	3385.82	56.69
J360	1122205.7	10041099	3192	4.24	3384.95	83.6
J364	1122181.1	10040941	3189	4.24	3382.95	84.04
J366	1122148.2	10040941	3189	4.24	3382.94	84.04
J368	1122218.1	10040941	3188	4.24	3383	84.49
J370	1122183.1	10041179	3194	4.24	3382.86	81.83
J372	1122865.7	10041749	3195	4.24	3384.57	82.14
J374	1123108.3	10041533	3188	4.24	3384.28	85.05
J376	1123749.9	10041802	3188	4.24	3384.53	85.16
J378	1122925.9	10042198	3198	4.24	3382.72	80.04
J38	1125085.4	10040522	3214	4.24	3385.73	74.41
J380	1123041.2	10043167	3222	4.24	3383.14	69.82
J382	1123039.2	10043368	3226	4.24	3383.14	68.09
J384	1123030.9	10043048	3222	4.24	3383.06	69.79
J386	1122922.2	10043502	3228	4.24	3383.13	67.22
J388	1123012.2	10044175	3237	4.24	3383.21	63.35

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J390	1123018.4	10044630	3245	4.24	3382.92	59.76
J392	1123078	10045202	3250	4.24	3383.61	57.89
J394	1123075.9	10045132	3248	4.24	3383.6	58.76
J396	1123078	10045461	3252	4.24	3383.59	57.02
J398	1122933.5	10045990	3220	4.24	3376.23	67.7
J40	1125639.4	10040959	3255	4.24	3385.62	56.6
J400	1122775.2	10045992	3220	4.24	3376.34	67.74
J402	1122775.2	10046090	3205	4.24	3376.27	74.21
J404	1122470.9	10045807	3208	4.24	3378.72	73.97
J406	1122464.8	10046021	3204	4.24	3378.7	75.7
J408	1122468.9	10045657	3214	4.24	3378.98	71.49
J410	1122207.8	10045663	3212	4.24	3378.98	72.35
J412	1122586.1	10045406	3233	4.24	3379.94	63.67
J414	1122795.8	10045445	3245	4.24	3375.98	56.75
J416	1122322.9	10045307	3222	4.24	3381.84	69.26
J418	1122320.8	10045427	3220	4.24	3381.82	70.12
J42	1125221	10040818	3221	4.24	3385.57	71.31
J420	1122388.7	10045020	3209	4.24	3381.93	74.93
J422	1122884.2	10045014	3238	4.24	3381.83	62.32
J424	1122388.6	10044892	3209	4.24	3381.98	74.95
J426	1122376.3	10044717	3215	4.24	3382.13	72.42
J428	1122880	10044707	3242	4.24	3382.09	60.7
J430	1122384.4	10044188	3240	4.24	3382.66	61.82
J432	1122684.6	10044186	3240	4.24	3383.06	61.99
J434	1122742.1	10043462	3232	4.24	3383.06	65.45
J436	1122197.2	10043462	3228	4.24	3382.89	67.11
J438	1122207.5	10044182	3236	4.24	3382.65	63.54
J44	1125638	10041202	3255	4.24	3385.53	56.56
J440	1121938.2	10044182	3240	4.24	3382.53	61.76
J442	1121938.2	10043551	3234	4.24	3382.5	64.34
J444	1122875.7	10043237	3224	4.24	3383.09	68.93
J446	1122869.5	10043168	3223	4.24	3383.1	69.37
J448	1122869.5	10042870	3222	4.24	3382.94	69.74
J450	1122869.5	10042833	3222	4.24	3382.93	69.73
J452	1122577.6	10042833	3220	4.24	3382.89	70.58
J454	1122577.6	10043042	3224	4.24	3382.89	68.85
J456	1122332.9	10042839	3220	4.24	3382.89	70.58
J458	1122832.5	10042692	3221	4.24	3382.91	70.16

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J46	1125333.9	10041215	3220	4.24	3385.5	71.71
J460	1122321.2	10042093	3208	4.24	3382.81	75.75
J462	1122197.2	10042443	3216	4.24	3382.78	72.27
J464	1121806.6	10042513	3224	4.24	3382.79	68.8
J466	1121781.6	10042455	3224	4.24	3382.79	68.8
J468	1121773.3	10042102	3218	4.24	3382.79	71.4
J470	1121275.8	10042124	3222	4.24	3382.78	69.67
J472	1122184.8	10042099	3208	4.24	3382.81	75.74
J474	1121872.3	10041867	3209	4.24	3382.83	75.32
J476	1121843.5	10041417	3202	4.24	3382.84	78.36
J478	1121573.4	10040954	3197	4.24	3382.85	80.53
J48	1125796.1	10041657	3255	4.24	3385.35	56.48
J480	1121534.4	10041237	3208	4.24	3382.84	75.76
J482	1121530.2	10040954	3195	4.24	3382.84	81.39
J484	1121380.2	10040935	3195	4.24	3382.83	81.39
J486	1121376	10041089	3205	4.24	3382.83	77.05
J488	1121080	10041046	3195	4.24	3382.82	81.38
J490	1120796.2	10041219	3195	4.24	3382.82	81.38
J492	1121080	10041410	3215	4.24	3382.81	72.71
J498	1121390.4	10041422	3216	4.24	3382.83	72.29
J50	1125374.5	10041666	3215	4.24	3384.98	73.65
J502	1121106.7	10041773	3220	4.24	3382.79	70.54
J504	1121151.6	10042114	3220	4.24	3382.78	70.53
J508	1120997.8	10042132	3200	4.24	3382.76	79.19
J510	1121404.9	10043101	3215	4.24	3381.85	72.3
J512	1121400.8	10043516	3225	4.24	3381.89	67.98
J514	1121674.3	10043531	3228	4.24	3382.48	66.93
J516	1121668.1	10043862	3234	4.24	3382.48	64.34
J518	1126598.3	10045335	3307	4.24	3384.84	33.73
J52	1125329.4	10041667	3213	4.24	3384.95	74.51
J520	1126585.9	10044363	3315	4.24	3384.84	30.26
J522	1126614.9	10044079	3320	4.24	3384.84	28.1
J524	1126475.1	10044087	3300	4.24	3384.85	36.76
J526	1126512	10043330	3310	4.24	3384.84	32.43
J528	1124645.6	10044860	3224	4.24	3384.4	69.5
J530	1123982.9	10043964	3210	4.24	3382.68	74.82
J532	1121044.8	10041644	3220	4.24	3382.8	70.54
J534	1121275.6	10042112	3222	4.24	3382.78	69.67

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J536	1122328.1	10040934	3188	4.24	3383.14	84.56
J54	1125327.9	10041538	3216	4.24	3384.94	73.2
J540	1123216.8	10044007	3230	4.24	3383.12	66.35
J542	1123717.6	10043709	3210	4.24	3383.46	75.16
J544	1122921.4	10044178	3238	4.24	3383.15	62.89
J546	1122910.7	10043167	3223	4.24	3383.11	69.38
J548	1122836.4	10040607	3178	4.24	3385.12	89.74
J550	1121429.3	10042126	3224	4.24	3382.78	68.8
J552	1121429.7	10042109	3224	4.24	3382.78	68.8
J554	1124113.5	10047573	3180	4.24	3384.62	88.66
J556	1123927.3	10047480	3182	4.24	3384.5	87.74
J558	1123608.1	10046856	3178	4.24	3384.44	89.45
J56	1125148.8	10041667	3203	4.24	3384.94	78.83
J560	1123546	10046621	3188	4.24	3384.42	85.11
J562	1123275.6	10046630	3188	4.24	3384.41	85.11
J564	1123000.7	10046638	3194	4.24	3384.41	82.5
J566	1122690.4	10046638	3194	4.24	3384.4	82.5
J568	1123546	10046479	3195	4.24	3384.41	82.07
J570	1123541.6	10046364	3198	4.24	3384.41	80.77
J572	1123541.6	10046093	3218	4.24	3384.4	72.1
J574	1122965.3	10047746	3090	4.24	3235.34	62.98
J576	1122756.9	10047990	3078	4.24	3235.32	68.17
J578	1122699.2	10047932	3082	4.24	3235.32	66.43
J58	1125227	10041771	3200	4.24	3384.99	80.16
J580	1123430.8	10048198	3110	4.24	3235.32	54.3
J582	1123719	10046486	3205	4.24	3384.41	77.74
J584	1123918.9	10040419	3193	4.24	3385.32	83.33
J586	1124622.2	10040824	3190	4.24	3385.67	84.78
J588	1124667	10041753	3190	4.24	3385.01	84.5
J590	1124650.8	10042484	3190	4.24	3383.62	83.89
J592	1124676.5	10043672	3208	4.24	3383.9	76.22
J594	1124679.8	10043917	3210	4.24	3383.77	75.29
J596	1123916.8	10040224	3192	4.24	3385.53	83.86
J598	1123920.7	10040593	3190	4.24	3385.18	84.57
J60	1125153.3	10041773	3200	4.24	3384.99	80.15
J600	1123960.9	10039405	3210	4.24	3386.62	76.53
J602	1123915.7	10038691	3170	4.24	3386.87	93.97
J604	1123276.7	10038802	3200	4.24	3386.87	80.97

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J606	1125613.8	10040660	3255	4.24	3385.74	56.65
J608	1123041.2	10046372	3196	4.24	3384.4	81.63
J610	1122685.5	10046975	3192	4.24	3384.4	83.37
J612	1123831	10044869	3240	4.24	3384.09	62.43
J614	1123362.1	10044494	3236	4.24	3383.65	63.98
J616	1122374.6	10044421	3225	4.24	3382.41	68.21
J618	1121393.2	10043917	3230	4.24	3381.9	65.82
J62	1125227	10042052	3195	4.24	3385.14	82.39
J620	1121762.7	10044511	3220	4.24	3381.93	70.16
J622	1121867.2	10042802	3220	4.24	3382.8	70.54
J624	1122343.9	10043246	3222	4.24	3382.95	69.74
J626	1122184	10041675	3200	4.24	3382.83	79.22
J628	1122418.5	10041365	3193	4.24	3384.81	83.11
J630	1123200.4	10041386	3187	4.24	3384.91	85.76
J632	1123215.5	10041139	3184	4.24	3385.03	87.11
J634	1122840.7	10040181	3187	4.24	3385.3	85.92
J636	1123632.3	10040007	3192	4.24	3385.67	83.92
J638	1124246.6	10039627	3205	4.24	3386.32	78.57
J64	1125882	10042044	3255	4.24	3385.22	56.42
J640	1123271.9	10041808	3192	4.24	3384.54	83.43
J642	1125480.4	10043891	3222	4.24	3384.72	70.51
J644	1123629.7	10042456	3193	4.24	3383.06	82.35
J646	1123015	10042460	3196	4.24	3382.75	80.92
J648	1123944.2	10043324	3200	4.24	3383.38	79.46
J650	1124266.5	10043316	3194	4.24	3383.36	82.05
J652	1123418.2	10047310	3135	4.24	3384.26	108.01
J654	1123431.2	10047915	3100	4.24	3235.33	58.64
J656	1125435.9	10040502	3230	4.24	3385.76	67.49
J658	1123772.5	10040006	3192	4.24	3385.74	83.95
J66	1125912	10042285	3254	4.24	3385.15	56.83
J660	1122416.7	10041207	3193	4.24	3384.88	83.14
J662	1121815.8	10042660	3222	4.24	3382.79	69.67
J664	1121600.9	10042286	3224	4.24	3382.78	68.8
J666	1121217.4	10043511	3223	4.24	3381.89	68.85
J668	1121875.6	10043169	3224	4.24	3382.83	68.82
J670	1123316.2	10042458	3193	4.24	3382.84	82.26
J672	1124092	10042774	3190	4.24	3383.66	83.91
J674	1123980	10043719	3204	4.24	3382.85	77.49

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J676	1123903.4	10045204	3235	4.24	3383.07	64.16
J678	1123442.7	10048158	3110	4.24	3235.32	54.3
J68	1125672.7	10042286	3228	4.24	3384.14	67.66
J680	1123380.6	10048225	3110	4.24	3235.32	54.3
J682	1123063.1	10048169	3100	4.24	3235.32	58.63
J684	1122895.5	10047898	3086	4.24	3235.33	64.7
J688	1123855.6	10047023	3180	4.24	3384.46	88.59
J690	1122626.7	10045017	3218	4.24	3381.85	71
J692	1121938.2	10043885	3238	4.24	3382.51	62.61
J694	1122202.5	10043832	3238	4.24	3382.74	62.71
J696	1122682.3	10043746	3238	4.24	3383.06	62.85
J698	1125018.8	10042054	3193	4.24	3385.13	83.25
J70	1125672.7	10042387	3228	4.24	3384.13	67.65
J700	1125011	10041754	3192	4.24	3385.13	83.68
J702	1124652.3	10042638	3192	4.24	3383.72	83.07
J704	1124649.1	10042317	3189	4.24	3383.56	84.3
J706	1125145.1	10043429	3210	4.24	3384.34	75.54
J708	1125467.3	10043244	3216	4.24	3384.45	72.99
J710	1124674.9	10043553	3206	4.24	3383.99	77.12
J712	1123455.6	10048115	3110	4.24	3235.32	54.3
J714	1123332.5	10048225	3110	4.24	3235.32	54.3
J72	1125457.5	10042300	3214	4.24	3383.58	73.48
J720	1124205.5	10047608	3180	4.24	3384.68	88.69
J722	1126592.1	10044849	3307	4.24	3384.84	33.73
J724	1125103.4	10045484	3250	4.24	3384.89	58.45
J726	1122233.4	10047038	3065	4.24	3235.28	73.78
J728	1121872.3	10047177	3060	4.24	3235.28	75.95
J730	1121326.8	10045288	3045	4.24	3235.26	82.44
J732	1120850	10044576	3015	4.24	3235.26	95.44
J734	1126122	10043420	3248	4.24	3384.86	59.3
J736	1125636.5	10041358	3257	4.24	3385.47	55.67
J738	1123723	10044190	3224	4.24	3383.46	69.09
J74	1125457.5	10042413	3214	4.24	3383.55	73.46
J740	1125109.4	10047292	3249	4.24	3384.73	58.81
J742	1125247.9	10039961	3260	4.24	3386.03	54.61
J744	1125220.9	10049016	3197	4.24	3384.7	81.33
J746	1125859.8	10048968	3223	4.24	3384.7	70.06
J748	1125769.5	10047902	3247	4.24	3384.7	59.67

Existing System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J750	1124992.9	10050432	3220	4.24	3384.7	71.37
J752	1124948.6	10050389	3218	4.24	3384.7	72.23
J754	1123449.9	10048728	3085	4.24	3384.67	129.85
J756	1123880.9	10048778	3111	4.24	3384.66	118.58
J758	1123501.1	10048585	3113	4.24	3384.67	117.71
J76	1125255.8	10042431	3205	4.24	3383.53	77.36
J760	1123667.7	10048341	3130	4.24	3384.67	110.35
J762	1123896.5	10038697	3170	4.24	3386.87	93.97
J78	1125242.3	10042303	3205	4.24	3383.5	77.35
J80	1125361.2	10042301	3209	4.24	3383.52	75.62
J82	1125361.2	10042198	3210	4.24	3383.51	75.18
J84	1125934.7	10042714	3255	4.24	3385.04	56.35
J86	1126252.3	10042705	3287	4.24	3385.04	42.48
J88	1125934.6	10042756	3255	4.24	3385.02	56.34
J90	1125457.4	10042761	3225	4.24	3384.19	68.98
J92	1125457.4	10042860	3218	4.24	3384.18	72.01
J94	1125454.4	10042665	3221	4.24	3384.12	70.68
J96	1125323.5	10042668	3209	4.24	3384.11	75.88
J98	1125452.9	10042630	3217	4.24	3384.12	72.41
V8002_NU	1121346.3	10045216	3043	4.24	3235.26	83.31
V8002_ND	1121366.9	10045146	3043	4.24	3235.26	83.31
V8004_NU	1123221.5	10047426	3120	4.24	3384.18	114.47
V8004_ND	1123060.2	10047523	3120	4.24	3235.39	50
V8010_NU	1122217.1	10046991	3065	4.24	3235.28	73.78
V8010_ND	1121854.4	10046291	3065	4.24	3235.28	73.78

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J100	1125999.3	10043006	3254	8.48	3379.61	54.43
J102	1125788.6	10043009	3236	8.48	3378.27	61.65
J104	1125787.1	10042941	3240	8.48	3378.25	59.9
J106	1125744.9	10043014	3234	8.48	3378.15	62.46
J108	1125746.4	10043169	3238	8.48	3378.15	60.73
J110	1125653.1	10043014	3227	8.48	3378.12	65.48
J112	1126111	10043156	3255	8.48	3379.47	53.93
J114	1126189.2	10043213	3260	8.48	3379.15	51.63
J116	1126077.9	10043285	3250	8.48	3379.36	56.05
J118	1125925.8	10043283	3244	8.48	3379.35	58.65
J120	1126005.6	10043423	3248	8.48	3379.24	56.87
J122	1125841.3	10043421	3242	8.48	3378.82	59.28
J124	1125842.9	10043313	3239	8.48	3378.78	60.57
J126	1125666.8	10043422	3228	8.48	3378.4	65.17
J128	1125668.3	10043677	3232	8.48	3377.77	63.16
J130	1125668.3	10043732	3233	8.48	3377.75	62.72
J132	1125164.1	10043574	3220	8.48	3377.58	68.28
J134	1125471.1	10043427	3218	8.48	3377.98	69.32
J136	1125463.6	10043063	3215	8.48	3377.71	70.5
J138	1125894	10043888	3247	8.48	3379.21	57.29
J14	1123884.3	10038702	3170	8.48	3386.54	93.83
J140	1125067.4	10043894	3220	8.48	3378.6	68.72
J142	1125820	10044147	3253	8.48	3379.2	54.68
J144	1125157.7	10044156	3229	8.48	3378.99	64.99
J146	1125772	10044440	3249	8.48	3379.19	56.41
J150	1125760.2	10044468	3249	8.48	3379.19	56.41
J152	1125070.4	10044495	3230	8.48	3378.96	64.54
J154	1125604.7	10044857	3250	8.48	3379.18	55.97
J156	1124669.9	10044862	3224	8.48	3377.63	66.57
J158	1125083.8	10044940	3234	8.48	3379.16	62.9
J16	1122873.1	10038869	3220	8.48	3386.51	72.15
J160	1125559.4	10044955	3250	8.48	3379.2	55.98
J162	1125461.5	10045164	3250	8.48	3379.23	56
J164	1125082.3	10045119	3237	8.48	3379.2	61.62
J166	1125311.2	10045480	3248	8.48	3379.3	56.89
J170	1125095.7	10046118	3253	8.48	3379.11	54.64
J174	1125098.7	10046332	3255	8.48	3379.03	53.74
J176	1125100.3	10046582	3252	8.48	3378.95	55.01

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J178	1125446.5	10046575	3264	8.48	3378.95	49.81
J18	1124240	10039216	3210	8.48	3385.73	76.14
J180	1125708.8	10046321	3268	8.48	3378.74	47.99
J182	1125708.8	10046551	3274	8.48	3378.74	45.38
J184	1125954.1	10046316	3277	8.48	3378.68	44.06
J186	1125958.6	10046567	3282	8.48	3378.68	41.89
J188	1126222	10046313	3287	8.48	3378.65	39.71
J190	1125106.7	10046822	3249	8.48	3378.88	56.28
J192	1125604.9	10046828	3267	8.48	3378.72	48.41
J194	1126476.6	10046310	3290	8.48	3378.64	38.41
J196	1126225.2	10046578	3288	8.48	3378.64	39.27
J198	1126452.5	10046572	3290	8.48	3378.64	38.41
J20	1124935.7	10039498	3260	8.48	3384.45	53.93
J200	1126153	10046838	3286	8.48	3378.64	40.14
J202	1126401.3	10046870	3290	8.48	3378.64	38.41
J204	1125109.7	10047063	3250	8.48	3378.82	55.82
J206	1125853.2	10047423	3272	8.48	3378.65	46.21
J208	1125600.4	10047197	3268	8.48	3378.72	47.97
J210	1125865.3	10047045	3275	8.48	3378.64	44.91
J212	1126130.5	10047146	3284	8.48	3378.63	41
J214	1126359.2	10047149	3290	8.48	3378.63	38.4
J216	1126359.2	10047412	3285	8.48	3378.63	40.57
J218	1126130.5	10047418	3278	8.48	3378.63	43.6
J22	1124947.8	10039509	3260	8.48	3384.39	53.9
J220	1125104.9	10047917	3205	8.48	3378.67	75.25
J222	1125104.9	10047957	3205	8.48	3378.67	75.25
J224	1124995	10047917	3197	8.48	3378.66	78.71
J226	1124010.1	10045975	3250	8.48	3358.49	47.01
J228	1123938.1	10045852	3250	8.48	3358.82	47.15
J230	1123803.7	10045935	3245	8.48	3358.45	49.16
J232	1123645.1	10045276	3242	8.48	3373.14	56.82
J234	1124171.6	10045197	3230	8.48	3372.68	61.82
J236	1123445.4	10045194	3248	8.48	3375.61	55.29
J238	1123390.9	10044874	3240	8.48	3375.87	58.87
J24	1124612.1	10039537	3227	8.48	3383.66	67.88
J240	1124671	10045070	3230	8.48	3377.56	63.94
J242	1124652.8	10044538	3220	8.48	3376.77	67.93
J244	1124858.6	10044541	3218	8.48	3376.71	68.77

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J246	1124643.7	10044290	3218	8.48	3376.69	68.76
J248	1123356.6	10044196	3234	8.48	3374.16	60.73
J250	1123989.9	10044107	3214	8.48	3371.3	68.16
J252	1123858.9	10043966	3210	8.48	3371.06	69.79
J254	1124682.6	10044130	3212	8.48	3374.98	70.62
J256	1124684	10043432	3205	8.48	3376.54	74.33
J258	1124684	10043249	3203	8.48	3376.28	75.08
J26	1124424	10039560	3211	8.48	3383.59	74.79
J260	1124881.9	10043093	3198	8.48	3376.18	77.2
J262	1124653.5	10042762	3194	8.48	3375.64	78.71
J264	1124261.5	10042774	3190	8.48	3375.24	80.27
J266	1123934.2	10042774	3190	8.48	3374.54	79.96
J268	1123637.4	10042774	3190	8.48	3374.03	79.74
J270	1123610.7	10042979	3200	8.48	3373.74	75.28
J272	1123619.5	10043324	3207	8.48	3373.74	72.25
J274	1123621.4	10043427	3212	8.48	3373.5	69.98
J276	1123381.7	10043327	3221	8.48	3373.19	65.94
J278	1123166.1	10043500	3225	8.48	3372.94	64.1
J28	1124399.9	10039807	3203	8.48	3383.49	78.21
J280	1123977.2	10043483	3198	8.48	3372.94	75.8
J282	1124278.7	10043485	3198	8.48	3372.94	75.8
J284	1124647.5	10042156	3188	8.48	3374.48	80.8
J286	1124341.1	10041745	3188	8.48	3379.57	83.01
J288	1124622.2	10041108	3188	8.48	3382.09	84.1
J290	1124622.2	10040543	3195	8.48	3382.51	81.25
J292	1124828	10040539	3198	8.48	3382.44	79.92
J294	1124725.1	10040253	3195	8.48	3382.92	81.43
J296	1124918.3	10040249	3203	8.48	3382.86	77.93
J298	1124145.4	10041286	3188	8.48	3379.75	83.09
J30	1124834.9	10039531	3244	8.48	3384.35	60.81
J300	1124042.5	10041114	3188	8.48	3379.77	83.09
J302	1124040.4	10040785	3189	8.48	3379.87	82.7
J304	1124195.8	10040785	3188	8.48	3379.85	83.13
J306	1123769.5	10040791	3189	8.48	3379.98	82.75
J308	1123922.8	10040785	3189	8.48	3379.99	82.76
J310	1124727.2	10039992	3198	8.48	3383.5	80.38
J312	1124756.6	10039992	3198	8.48	3383.5	80.38
J314	1124252.5	10039999	3195	8.48	3383.5	81.68

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J316	1123914.4	10040005	3193	8.48	3382.7	82.2
J318	1123886.8	10039438	3210	8.48	3385.62	76.1
J32	1125375.6	10039941	3260	8.48	3383.5	53.51
J320	1123306.8	10040009	3190	8.48	3381.63	83.03
J322	1122289.5	10040159	3030	8.48	3380.29	151.78
J324	1122839.8	10040396	3184	8.48	3380.5	85.14
J326	1122999.4	10040261	3186	8.48	3379.99	84.05
J328	1123180.1	10040549	3182	8.48	3379.99	85.79
J330	1123007.8	10040618	3178	8.48	3380.08	87.56
J332	1123230.5	10040679	3182	8.48	3379.95	85.77
J334	1123283	10040818	3179	8.48	3379.91	87.06
J336	1123545.5	10041082	3185	8.48	3378.78	83.97
J338	1122894.4	10040872	3178	8.48	3379.82	87.45
J340	1122440.4	10040465	3169	8.48	3378.34	90.71
J342	1122623.3	10040641	3178	8.48	3378.36	86.82
J344	1122772.2	10040780	3178	8.48	3380	87.53
J346	1122741.5	10040713	3178	8.48	3380.03	87.54
J350	1122729.7	10040740	3178	8.48	3380.01	87.53
J352	1122722.3	10040733	3178	8.48	3380.02	87.53
J354	1122884.2	10041060	3183	8.48	3379.61	85.19
J356	1123612	10041383	3188	8.48	3379.4	82.93
J358	1122415.4	10041101	3192	8.48	3379.55	81.26
J36	1125567.1	10040443	3255	8.48	3382.75	55.35
J360	1122205.7	10041099	3192	8.48	3379.55	81.26
J364	1122181.1	10040941	3189	8.48	3372.32	79.43
J366	1122148.2	10040941	3189	8.48	3372.29	79.42
J368	1122218.1	10040941	3188	8.48	3372.51	79.95
J370	1122183.1	10041179	3194	8.48	3371.98	77.12
J372	1122865.7	10041749	3195	8.48	3378.2	79.38
J374	1123108.3	10041533	3188	8.48	3377.16	81.96
J376	1123749.9	10041802	3188	8.48	3378.03	82.34
J378	1122925.9	10042198	3198	8.48	3371.48	75.17
J38	1125085.4	10040522	3214	8.48	3382.41	72.97
J380	1123041.2	10043167	3222	8.48	3373.01	65.43
J382	1123039.2	10043368	3226	8.48	3372.99	63.69
J384	1123030.9	10043048	3222	8.48	3372.73	65.31
J386	1122922.2	10043502	3228	8.48	3372.95	62.81
J388	1123012.2	10044175	3237	8.48	3373.26	59.04

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J390	1123018.4	10044630	3245	8.48	3372.22	55.12
J392	1123078	10045202	3250	8.48	3374.71	54.04
J394	1123075.9	10045132	3248	8.48	3374.69	54.89
J396	1123078	10045461	3252	8.48	3374.63	53.14
J398	1122933.5	10045990	3220	8.48	3348.03	55.48
J40	1125639.4	10040959	3255	8.48	3382.01	55.03
J400	1122775.2	10045992	3220	8.48	3348.4	55.64
J402	1122775.2	10046090	3205	8.48	3348.17	62.03
J404	1122470.9	10045807	3208	8.48	3357.01	64.56
J406	1122464.8	10046021	3204	8.48	3356.94	66.27
J408	1122468.9	10045657	3214	8.48	3357.97	62.38
J410	1122207.8	10045663	3212	8.48	3357.95	63.24
J412	1122586.1	10045406	3233	8.48	3361.43	55.65
J414	1122795.8	10045445	3245	8.48	3347.11	44.24
J416	1122322.9	10045307	3222	8.48	3368.28	63.38
J418	1122320.8	10045427	3220	8.48	3368.24	64.23
J42	1125221	10040818	3221	8.48	3381.84	69.69
J420	1122388.7	10045020	3209	8.48	3368.61	69.16
J422	1122884.2	10045014	3238	8.48	3368.25	56.44
J424	1122388.6	10044892	3209	8.48	3368.81	69.25
J426	1122376.3	10044717	3215	8.48	3369.35	66.88
J428	1122880	10044707	3242	8.48	3369.19	55.11
J430	1122384.4	10044188	3240	8.48	3371.28	56.88
J432	1122684.6	10044186	3240	8.48	3372.7	57.5
J434	1122742.1	10043462	3232	8.48	3372.7	60.96
J436	1122197.2	10043462	3228	8.48	3372.08	62.43
J438	1122207.5	10044182	3236	8.48	3371.22	58.59
J44	1125638	10041202	3255	8.48	3381.68	54.89
J440	1121938.2	10044182	3240	8.48	3370.8	56.67
J442	1121938.2	10043551	3234	8.48	3370.68	59.23
J444	1122875.7	10043237	3224	8.48	3372.8	64.48
J446	1122869.5	10043168	3223	8.48	3372.85	64.93
J448	1122869.5	10042870	3222	8.48	3372.29	65.12
J450	1122869.5	10042833	3222	8.48	3372.23	65.09
J452	1122577.6	10042833	3220	8.48	3372.1	65.9
J454	1122577.6	10043042	3224	8.48	3372.08	64.16
J456	1122332.9	10042839	3220	8.48	3372.09	65.9
J458	1122832.5	10042692	3221	8.48	3372.18	65.51

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J46	1125333.9	10041215	3220	8.48	3381.58	70.01
J460	1122321.2	10042093	3208	8.48	3371.81	70.98
J462	1122197.2	10042443	3216	8.48	3371.71	67.47
J464	1121806.6	10042513	3224	8.48	3371.74	64.02
J466	1121781.6	10042455	3224	8.48	3371.74	64.01
J468	1121773.3	10042102	3218	8.48	3371.74	66.62
J470	1121275.8	10042124	3222	8.48	3371.71	64.87
J472	1122184.8	10042099	3208	8.48	3371.81	70.98
J474	1121872.3	10041867	3209	8.48	3371.88	70.58
J476	1121843.5	10041417	3202	8.48	3371.92	73.63
J478	1121573.4	10040954	3197	8.48	3371.95	75.81
J48	1125796.1	10041657	3255	8.48	3381.02	54.6
J480	1121534.4	10041237	3208	8.48	3371.92	71.03
J482	1121530.2	10040954	3195	8.48	3371.92	76.66
J484	1121380.2	10040935	3195	8.48	3371.88	76.64
J486	1121376	10041089	3205	8.48	3371.88	72.31
J488	1121080	10041046	3195	8.48	3371.84	76.62
J490	1120796.2	10041219	3195	8.48	3371.84	76.62
J492	1121080	10041410	3215	8.48	3371.83	67.95
J498	1121390.4	10041422	3216	8.48	3371.89	67.55
J50	1125374.5	10041666	3215	8.48	3379.7	71.36
J502	1121106.7	10041773	3220	8.48	3371.75	65.75
J504	1121151.6	10042114	3220	8.48	3371.71	65.74
J508	1120997.8	10042132	3200	8.48	3371.62	74.36
J510	1121404.9	10043101	3215	8.48	3368.34	66.44
J512	1121400.8	10043516	3225	8.48	3368.47	62.16
J514	1121674.3	10043531	3228	8.48	3370.6	61.79
J516	1121668.1	10043862	3234	8.48	3370.62	59.2
J518	1126598.3	10045335	3307	8.48	3379.16	31.27
J52	1125329.4	10041667	3213	8.48	3379.58	72.18
J520	1126585.9	10044363	3315	8.48	3379.16	27.8
J522	1126614.9	10044079	3320	8.48	3379.17	25.64
J524	1126475.1	10044087	3300	8.48	3379.19	34.31
J526	1126512	10043330	3310	8.48	3379.16	29.97
J528	1124645.6	10044860	3224	8.48	3377.56	66.54
J530	1123982.9	10043964	3210	8.48	3371.35	69.91
J532	1121044.8	10041644	3220	8.48	3371.77	65.76
J534	1121275.6	10042112	3222	8.48	3371.71	64.87

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J536	1122328.1	10040934	3188	8.48	3373.03	80.17
J54	1125327.9	10041538	3216	8.48	3379.54	70.86
J540	1123216.8	10044007	3230	8.48	3372.94	61.94
J542	1123717.6	10043709	3210	8.48	3374.16	71.13
J544	1122921.4	10044178	3238	8.48	3373.03	58.51
J546	1122910.7	10043167	3223	8.48	3372.9	64.95
J548	1122836.4	10040607	3178	8.48	3380.18	87.6
J550	1121429.3	10042126	3224	8.48	3371.71	64
J552	1121429.7	10042109	3224	8.48	3371.71	64
J554	1124113.5	10047573	3180	8.48	3378.36	85.95
J556	1123927.3	10047480	3182	8.48	3377.93	84.9
J558	1123608.1	10046856	3178	8.48	3377.71	86.53
J56	1125148.8	10041667	3203	8.48	3379.52	76.49
J560	1123546	10046621	3188	8.48	3377.63	82.17
J562	1123275.6	10046630	3188	8.48	3377.63	82.17
J564	1123000.7	10046638	3194	8.48	3377.6	79.55
J566	1122690.4	10046638	3194	8.48	3377.59	79.55
J568	1123546	10046479	3195	8.48	3377.6	79.12
J570	1123541.6	10046364	3198	8.48	3377.59	77.82
J572	1123541.6	10046093	3218	8.48	3377.59	69.15
J574	1122965.3	10047746	3090	8.48	3235.2	62.92
J576	1122756.9	10047990	3078	8.48	3235.13	68.08
J578	1122699.2	10047932	3082	8.48	3235.11	66.34
J58	1125227	10041771	3200	8.48	3379.73	77.88
J580	1123430.8	10048198	3110	8.48	3235.13	54.22
J582	1123719	10046486	3205	8.48	3377.6	74.79
J584	1123918.9	10040419	3193	8.48	3380.93	81.43
J586	1124622.2	10040824	3190	8.48	3382.18	83.27
J588	1124667	10041753	3190	8.48	3379.81	82.24
J590	1124650.8	10042484	3190	8.48	3374.73	80.04
J592	1124676.5	10043672	3208	8.48	3375.76	72.69
J594	1124679.8	10043917	3210	8.48	3375.28	71.61
J596	1123916.8	10040224	3192	8.48	3381.67	82.18
J598	1123920.7	10040593	3190	8.48	3380.42	82.51
J60	1125153.3	10041773	3200	8.48	3379.7	77.86
J600	1123960.9	10039405	3210	8.48	3385.63	76.1
J602	1123915.7	10038691	3170	8.48	3386.53	93.82
J604	1123276.7	10038802	3200	8.48	3386.52	80.82

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J606	1125613.8	10040660	3255	8.48	3382.43	55.21
J608	1123041.2	10046372	3196	8.48	3377.58	78.68
J610	1122685.5	10046975	3192	8.48	3377.59	80.42
J612	1123831	10044869	3240	8.48	3376.46	59.13
J614	1123362.1	10044494	3236	8.48	3374.87	60.17
J616	1122374.6	10044421	3225	8.48	3370.36	62.98
J618	1121393.2	10043917	3230	8.48	3368.52	60.02
J62	1125227	10042052	3195	8.48	3380.24	80.27
J620	1121762.7	10044511	3220	8.48	3368.62	64.4
J622	1121867.2	10042802	3220	8.48	3371.79	65.77
J624	1122343.9	10043246	3222	8.48	3372.31	65.13
J626	1122184	10041675	3200	8.48	3371.87	74.47
J628	1122418.5	10041365	3193	8.48	3379.06	80.62
J630	1123200.4	10041386	3187	8.48	3379.43	83.38
J632	1123215.5	10041139	3184	8.48	3379.85	84.86
J634	1122840.7	10040181	3187	8.48	3380.84	83.99
J636	1123632.3	10040007	3192	8.48	3382.17	82.4
J638	1124246.6	10039627	3205	8.48	3384.55	77.8
J64	1125882	10042044	3255	8.48	3380.55	54.4
J640	1123271.9	10041808	3192	8.48	3378.07	80.62
J642	1125480.4	10043891	3222	8.48	3378.73	67.91
J644	1123629.7	10042456	3193	8.48	3372.7	77.86
J646	1123015	10042460	3196	8.48	3371.58	76.08
J648	1123944.2	10043324	3200	8.48	3373.86	75.33
J650	1124266.5	10043316	3194	8.48	3373.82	77.92
J652	1123418.2	10047310	3135	8.48	3377.09	104.9
J654	1123431.2	10047915	3100	8.48	3235.15	58.56
J656	1125435.9	10040502	3230	8.48	3382.53	66.09
J658	1123772.5	10040006	3192	8.48	3382.43	82.51
J66	1125912	10042285	3254	8.48	3380.28	54.72
J660	1122416.7	10041207	3193	8.48	3379.31	80.73
J662	1121815.8	10042660	3222	8.48	3371.76	64.89
J664	1121600.9	10042286	3224	8.48	3371.7	64
J666	1121217.4	10043511	3223	8.48	3368.48	63.03
J668	1121875.6	10043169	3224	8.48	3371.88	64.08
J670	1123316.2	10042458	3193	8.48	3371.93	77.53
J672	1124092	10042774	3190	8.48	3374.87	80.1
J674	1123980	10043719	3204	8.48	3371.95	72.77

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J676	1123903.4	10045204	3235	8.48	3372.76	59.69
J678	1123442.7	10048158	3110	8.48	3235.13	54.22
J68	1125672.7	10042286	3228	8.48	3376.65	64.41
J680	1123380.6	10048225	3110	8.48	3235.13	54.22
J682	1123063.1	10048169	3100	8.48	3235.13	58.55
J684	1122895.5	10047898	3086	8.48	3235.16	64.63
J688	1123855.6	10047023	3180	8.48	3377.81	85.71
J690	1122626.7	10045017	3218	8.48	3368.34	65.14
J692	1121938.2	10043885	3238	8.48	3370.71	57.5
J694	1122202.5	10043832	3238	8.48	3371.55	57.87
J696	1122682.3	10043746	3238	8.48	3372.7	58.36
J698	1125018.8	10042054	3193	8.48	3380.21	81.12
J70	1125672.7	10042387	3228	8.48	3376.62	64.4
J700	1125011	10041754	3192	8.48	3380.21	81.55
J702	1124652.3	10042638	3192	8.48	3375.11	79.34
J704	1124649.1	10042317	3189	8.48	3374.54	80.39
J706	1125145.1	10043429	3210	8.48	3377.37	72.52
J708	1125467.3	10043244	3216	8.48	3377.77	70.09
J710	1124674.9	10043553	3206	8.48	3376.08	73.7
J712	1123455.6	10048115	3110	8.48	3235.13	54.22
J714	1123332.5	10048225	3110	8.48	3235.13	54.22
J72	1125457.5	10042300	3214	8.48	3374.63	69.6
J720	1124205.5	10047608	3180	8.48	3378.59	86.05
J722	1126592.1	10044849	3307	8.48	3379.16	31.27
J724	1125103.4	10045484	3250	8.48	3379.35	56.05
J726	1122233.4	10047038	3065	8.48	3234.99	73.65
J728	1121872.3	10047177	3060	8.48	3234.99	75.82
J730	1121326.8	10045288	3045	8.48	3234.91	82.29
J732	1120850	10044576	3015	8.48	3234.91	95.29
J734	1126122	10043420	3248	8.48	3379.24	56.87
J736	1125636.5	10041358	3257	8.48	3381.46	53.93
J738	1123723	10044190	3224	8.48	3374.17	65.07
J74	1125457.5	10042413	3214	8.48	3374.49	69.54
J740	1125109.4	10047292	3249	8.48	3378.78	56.23
J742	1125247.9	10039961	3260	8.48	3383.5	53.51
J744	1125220.9	10049016	3197	8.48	3378.66	78.71
J746	1125859.8	10048968	3223	8.48	3378.66	67.45
J748	1125769.5	10047902	3247	8.48	3378.67	57.05

Existing System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J750	1124992.9	10050432	3220	8.48	3378.67	68.75
J752	1124948.6	10050389	3218	8.48	3378.67	69.62
J754	1123449.9	10048728	3085	8.48	3378.54	127.19
J756	1123880.9	10048778	3111	8.48	3378.52	115.92
J758	1123501.1	10048585	3113	8.48	3378.55	115.06
J76	1125255.8	10042431	3205	8.48	3374.43	73.41
J760	1123667.7	10048341	3130	8.48	3378.56	107.7
J762	1123896.5	10038697	3170	8.48	3386.54	93.83
J78	1125242.3	10042303	3205	8.48	3374.34	73.38
J80	1125361.2	10042301	3209	8.48	3374.38	71.66
J82	1125361.2	10042198	3210	8.48	3374.35	71.21
J84	1125934.7	10042714	3255	8.48	3379.89	54.12
J86	1126252.3	10042705	3287	8.48	3379.89	40.25
J88	1125934.6	10042756	3255	8.48	3379.83	54.09
J90	1125457.4	10042761	3225	8.48	3376.83	65.79
J92	1125457.4	10042860	3218	8.48	3376.8	68.81
J94	1125454.4	10042665	3221	8.48	3376.59	67.42
J96	1125323.5	10042668	3209	8.48	3376.54	72.6
J98	1125452.9	10042630	3217	8.48	3376.57	69.14
V8002_NU	1121346.3	10045216	3043	8.48	3234.91	83.16
V8002_ND	1121366.9	10045146	3043	8.48	3234.91	83.16
V8004_NU	1123221.5	10047426	3120	8.48	3376.79	111.27
V8004_ND	1123060.2	10047523	3120	8.48	3235.39	50
V8010_NU	1122217.1	10046991	3065	8.48	3234.98	73.65
V8010_ND	1121854.4	10046291	3065	8.48	3234.98	73.65

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J100	1125999.3	10043006	3254	9.78	3376.55	53.1
J102	1125788.6	10043009	3236	9.78	3374.65	60.08
J104	1125787.1	10042941	3240	9.78	3374.62	58.33
J106	1125744.9	10043014	3234	9.78	3374.49	60.87
J108	1125746.4	10043169	3238	9.78	3374.49	59.14
J110	1125653.1	10043014	3227	9.78	3374.44	63.89
J112	1126111	10043156	3255	9.78	3376.34	52.58
J114	1126189.2	10043213	3260	9.78	3375.9	50.22
J116	1126077.9	10043285	3250	9.78	3376.19	54.68
J118	1125925.8	10043283	3244	9.78	3376.17	57.27
J120	1126005.6	10043423	3248	9.78	3376.02	55.47
J122	1125841.3	10043421	3242	9.78	3375.43	57.81
J124	1125842.9	10043313	3239	9.78	3375.38	59.09
J126	1125666.8	10043422	3228	9.78	3374.83	63.62
J128	1125668.3	10043677	3232	9.78	3373.94	61.5
J130	1125668.3	10043732	3233	9.78	3373.92	61.06
J132	1125164.1	10043574	3220	9.78	3373.67	66.59
J134	1125471.1	10043427	3218	9.78	3374.24	67.7
J136	1125463.6	10043063	3215	9.78	3373.85	68.83
J138	1125894	10043888	3247	9.78	3375.98	55.89
J14	1123884.3	10038702	3170	9.78	3386.36	93.75
J140	1125067.4	10043894	3220	9.78	3375.12	67.21
J142	1125820	10044147	3253	9.78	3375.96	53.28
J144	1125157.7	10044156	3229	9.78	3375.66	63.55
J146	1125772	10044440	3249	9.78	3375.95	55.01
J150	1125760.2	10044468	3249	9.78	3375.95	55.01
J152	1125070.4	10044495	3230	9.78	3375.63	63.1
J154	1125604.7	10044857	3250	9.78	3375.93	54.57
J156	1124669.9	10044862	3224	9.78	3373.74	64.88
J158	1125083.8	10044940	3234	9.78	3375.91	61.49
J16	1122873.1	10038869	3220	9.78	3386.31	72.06
J160	1125559.4	10044955	3250	9.78	3375.96	54.58
J162	1125461.5	10045164	3250	9.78	3376.02	54.6
J164	1125082.3	10045119	3237	9.78	3375.97	60.22
J166	1125311.2	10045480	3248	9.78	3376.1	55.51
J170	1125095.7	10046118	3253	9.78	3375.84	53.23
J174	1125098.7	10046332	3255	9.78	3375.72	52.31
J176	1125100.3	10046582	3252	9.78	3375.61	53.56

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J178	1125446.5	10046575	3264	9.78	3375.61	48.36
J18	1124240	10039216	3210	9.78	3385.2	75.91
J180	1125708.8	10046321	3268	9.78	3375.32	46.5
J182	1125708.8	10046551	3274	9.78	3375.32	43.9
J184	1125954.1	10046316	3277	9.78	3375.23	42.56
J186	1125958.6	10046567	3282	9.78	3375.23	40.39
J188	1126222	10046313	3287	9.78	3375.18	38.21
J190	1125106.7	10046822	3249	9.78	3375.51	54.82
J192	1125604.9	10046828	3267	9.78	3375.29	46.92
J194	1126476.6	10046310	3290	9.78	3375.18	36.91
J196	1126225.2	10046578	3288	9.78	3375.18	37.77
J198	1126452.5	10046572	3290	9.78	3375.17	36.9
J20	1124935.7	10039498	3260	9.78	3383.4	53.47
J200	1126153	10046838	3286	9.78	3375.18	38.64
J202	1126401.3	10046870	3290	9.78	3375.17	36.91
J204	1125109.7	10047063	3250	9.78	3375.43	54.35
J206	1125853.2	10047423	3272	9.78	3375.19	44.71
J208	1125600.4	10047197	3268	9.78	3375.29	46.49
J210	1125865.3	10047045	3275	9.78	3375.18	43.41
J212	1126130.5	10047146	3284	9.78	3375.16	39.5
J214	1126359.2	10047149	3290	9.78	3375.16	36.9
J216	1126359.2	10047412	3285	9.78	3375.16	39.07
J218	1126130.5	10047418	3278	9.78	3375.16	42.1
J22	1124947.8	10039509	3260	9.78	3383.31	53.43
J220	1125104.9	10047917	3205	9.78	3375.21	73.75
J222	1125104.9	10047957	3205	9.78	3375.21	73.75
J224	1124995	10047917	3197	9.78	3375.2	77.22
J226	1124010.1	10045975	3250	9.78	3346.69	41.9
J228	1123938.1	10045852	3250	9.78	3347.16	42.1
J230	1123803.7	10045935	3245	9.78	3346.64	44.04
J232	1123645.1	10045276	3242	9.78	3367.4	54.34
J234	1124171.6	10045197	3230	9.78	3366.74	59.25
J236	1123445.4	10045194	3248	9.78	3370.89	53.25
J238	1123390.9	10044874	3240	9.78	3371.26	56.87
J24	1124612.1	10039537	3227	9.78	3382.27	67.28
J240	1124671	10045070	3230	9.78	3373.65	62.24
J242	1124652.8	10044538	3220	9.78	3372.54	66.09
J244	1124858.6	10044541	3218	9.78	3372.44	66.92

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J246	1124643.7	10044290	3218	9.78	3372.42	66.91
J248	1123356.6	10044196	3234	9.78	3368.83	58.42
J250	1123989.9	10044107	3214	9.78	3364.79	65.34
J252	1123858.9	10043966	3210	9.78	3364.45	66.92
J254	1124682.6	10044130	3212	9.78	3370	68.46
J256	1124684	10043432	3205	9.78	3372.2	72.45
J258	1124684	10043249	3203	9.78	3371.83	73.16
J26	1124424	10039560	3211	9.78	3382.19	74.18
J260	1124881.9	10043093	3198	9.78	3371.68	75.26
J262	1124653.5	10042762	3194	9.78	3370.93	76.67
J264	1124261.5	10042774	3190	9.78	3370.37	78.15
J266	1123934.2	10042774	3190	9.78	3369.37	77.72
J268	1123637.4	10042774	3190	9.78	3368.65	77.41
J270	1123610.7	10042979	3200	9.78	3368.24	72.9
J272	1123619.5	10043324	3207	9.78	3368.24	69.86
J274	1123621.4	10043427	3212	9.78	3367.9	67.55
J276	1123381.7	10043327	3221	9.78	3367.46	63.46
J278	1123166.1	10043500	3225	9.78	3367.11	61.58
J28	1124399.9	10039807	3203	9.78	3382.05	77.58
J280	1123977.2	10043483	3198	9.78	3367.11	73.28
J282	1124278.7	10043485	3198	9.78	3367.1	73.27
J284	1124647.5	10042156	3188	9.78	3369.29	78.55
J286	1124341.1	10041745	3188	9.78	3376.49	81.67
J288	1124622.2	10041108	3188	9.78	3380.06	83.22
J290	1124622.2	10040543	3195	9.78	3380.65	80.44
J292	1124828	10040539	3198	9.78	3380.55	79.1
J294	1124725.1	10040253	3195	9.78	3381.23	80.69
J296	1124918.3	10040249	3203	9.78	3381.14	77.19
J298	1124145.4	10041286	3188	9.78	3376.75	81.78
J30	1124834.9	10039531	3244	9.78	3383.25	60.34
J300	1124042.5	10041114	3188	9.78	3376.78	81.8
J302	1124040.4	10040785	3189	9.78	3376.91	81.42
J304	1124195.8	10040785	3188	9.78	3376.89	81.85
J306	1123769.5	10040791	3189	9.78	3377.07	81.49
J308	1123922.8	10040785	3189	9.78	3377.09	81.5
J310	1124727.2	10039992	3198	9.78	3382.04	79.75
J312	1124756.6	10039992	3198	9.78	3382.04	79.75
J314	1124252.5	10039999	3195	9.78	3382.05	81.05

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J316	1123914.4	10040005	3193	9.78	3380.92	81.42
J318	1123886.8	10039438	3210	9.78	3385.05	75.85
J32	1125375.6	10039941	3260	9.78	3382.05	52.89
J320	1123306.8	10040009	3190	9.78	3379.41	82.07
J322	1122289.5	10040159	3030	9.78	3377.51	150.58
J324	1122839.8	10040396	3184	9.78	3377.8	83.97
J326	1122999.4	10040261	3186	9.78	3377.08	82.79
J328	1123180.1	10040549	3182	9.78	3377.08	84.53
J330	1123007.8	10040618	3178	9.78	3377.21	86.32
J332	1123230.5	10040679	3182	9.78	3377.03	84.51
J334	1123283	10040818	3179	9.78	3376.97	85.78
J336	1123545.5	10041082	3185	9.78	3375.38	82.49
J338	1122894.4	10040872	3178	9.78	3376.85	86.16
J340	1122440.4	10040465	3169	9.78	3374.75	89.15
J342	1122623.3	10040641	3178	9.78	3374.78	85.26
J344	1122772.2	10040780	3178	9.78	3377.1	86.27
J346	1122741.5	10040713	3178	9.78	3377.14	86.29
J350	1122729.7	10040740	3178	9.78	3377.11	86.27
J352	1122722.3	10040733	3178	9.78	3377.12	86.28
J354	1122884.2	10041060	3183	9.78	3376.55	83.86
J356	1123612	10041383	3188	9.78	3376.25	81.57
J358	1122415.4	10041101	3192	9.78	3376.46	79.92
J36	1125567.1	10040443	3255	9.78	3380.99	54.59
J360	1122205.7	10041099	3192	9.78	3376.46	79.92
J364	1122181.1	10040941	3189	9.78	3366.24	76.8
J366	1122148.2	10040941	3189	9.78	3366.2	76.78
J368	1122218.1	10040941	3188	9.78	3366.51	77.35
J370	1122183.1	10041179	3194	9.78	3365.76	74.42
J372	1122865.7	10041749	3195	9.78	3374.56	77.8
J374	1123108.3	10041533	3188	9.78	3373.08	80.19
J376	1123749.9	10041802	3188	9.78	3374.32	80.73
J378	1122925.9	10042198	3198	9.78	3365.04	72.38
J38	1125085.4	10040522	3214	9.78	3380.51	72.15
J380	1123041.2	10043167	3222	9.78	3367.21	62.92
J382	1123039.2	10043368	3226	9.78	3367.19	61.18
J384	1123030.9	10043048	3222	9.78	3366.82	62.75
J386	1122922.2	10043502	3228	9.78	3367.13	60.28
J388	1123012.2	10044175	3237	9.78	3367.56	56.57

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J390	1123018.4	10044630	3245	9.78	3366.09	52.47
J392	1123078	10045202	3250	9.78	3369.62	51.83
J394	1123075.9	10045132	3248	9.78	3369.59	52.68
J396	1123078	10045461	3252	9.78	3369.5	50.91
J398	1122933.5	10045990	3220	9.78	3331.9	48.49
J40	1125639.4	10040959	3255	9.78	3379.95	54.14
J400	1122775.2	10045992	3220	9.78	3332.42	48.71
J402	1122775.2	10046090	3205	9.78	3332.09	55.07
J404	1122470.9	10045807	3208	9.78	3344.58	59.18
J406	1122464.8	10046021	3204	9.78	3344.49	60.87
J408	1122468.9	10045657	3214	9.78	3345.95	57.17
J410	1122207.8	10045663	3212	9.78	3345.92	58.03
J412	1122586.1	10045406	3233	9.78	3350.83	51.06
J414	1122795.8	10045445	3245	9.78	3330.6	37.09
J416	1122322.9	10045307	3222	9.78	3360.52	60.02
J418	1122320.8	10045427	3220	9.78	3360.46	60.86
J42	1125221	10040818	3221	9.78	3379.7	68.76
J420	1122388.7	10045020	3209	9.78	3360.99	65.86
J422	1122884.2	10045014	3238	9.78	3360.48	53.07
J424	1122388.6	10044892	3209	9.78	3361.27	65.98
J426	1122376.3	10044717	3215	9.78	3362.03	63.71
J428	1122880	10044707	3242	9.78	3361.8	51.91
J430	1122384.4	10044188	3240	9.78	3364.76	54.06
J432	1122684.6	10044186	3240	9.78	3366.77	54.93
J434	1122742.1	10043462	3232	9.78	3366.77	58.39
J436	1122197.2	10043462	3228	9.78	3365.9	59.75
J438	1122207.5	10044182	3236	9.78	3364.67	55.75
J44	1125638	10041202	3255	9.78	3379.48	53.94
J440	1121938.2	10044182	3240	9.78	3364.08	53.76
J442	1121938.2	10043551	3234	9.78	3363.92	56.29
J444	1122875.7	10043237	3224	9.78	3366.92	61.93
J446	1122869.5	10043168	3223	9.78	3366.98	62.39
J448	1122869.5	10042870	3222	9.78	3366.18	62.47
J450	1122869.5	10042833	3222	9.78	3366.11	62.44
J452	1122577.6	10042833	3220	9.78	3365.92	63.23
J454	1122577.6	10043042	3224	9.78	3365.9	61.48
J456	1122332.9	10042839	3220	9.78	3365.91	63.22
J458	1122832.5	10042692	3221	9.78	3366.04	62.84

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J46	1125333.9	10041215	3220	9.78	3379.34	69.04
J460	1122321.2	10042093	3208	9.78	3365.52	68.25
J462	1122197.2	10042443	3216	9.78	3365.37	64.72
J464	1121806.6	10042513	3224	9.78	3365.41	61.27
J466	1121781.6	10042455	3224	9.78	3365.41	61.27
J468	1121773.3	10042102	3218	9.78	3365.41	63.87
J470	1121275.8	10042124	3222	9.78	3365.37	62.12
J472	1122184.8	10042099	3208	9.78	3365.51	68.25
J474	1121872.3	10041867	3209	9.78	3365.61	67.86
J476	1121843.5	10041417	3202	9.78	3365.66	70.92
J478	1121573.4	10040954	3197	9.78	3365.71	73.1
J48	1125796.1	10041657	3255	9.78	3378.54	53.53
J480	1121534.4	10041237	3208	9.78	3365.67	68.32
J482	1121530.2	10040954	3195	9.78	3365.68	73.95
J484	1121380.2	10040935	3195	9.78	3365.61	73.93
J486	1121376	10041089	3205	9.78	3365.61	69.59
J488	1121080	10041046	3195	9.78	3365.55	73.9
J490	1120796.2	10041219	3195	9.78	3365.55	73.9
J492	1121080	10041410	3215	9.78	3365.54	65.23
J498	1121390.4	10041422	3216	9.78	3365.62	64.83
J50	1125374.5	10041666	3215	9.78	3376.67	70.05
J502	1121106.7	10041773	3220	9.78	3365.43	63.01
J504	1121151.6	10042114	3220	9.78	3365.38	62.99
J508	1120997.8	10042132	3200	9.78	3365.24	71.6
J510	1121404.9	10043101	3215	9.78	3360.6	63.09
J512	1121400.8	10043516	3225	9.78	3360.79	58.84
J514	1121674.3	10043531	3228	9.78	3363.8	58.84
J516	1121668.1	10043862	3234	9.78	3363.83	56.26
J518	1126598.3	10045335	3307	9.78	3375.9	29.86
J52	1125329.4	10041667	3213	9.78	3376.5	70.85
J520	1126585.9	10044363	3315	9.78	3375.91	26.39
J522	1126614.9	10044079	3320	9.78	3375.92	24.23
J524	1126475.1	10044087	3300	9.78	3375.95	32.91
J526	1126512	10043330	3310	9.78	3375.91	28.56
J528	1124645.6	10044860	3224	9.78	3373.65	64.84
J530	1123982.9	10043964	3210	9.78	3364.86	67.1
J532	1121044.8	10041644	3220	9.78	3365.46	63.03
J534	1121275.6	10042112	3222	9.78	3365.37	62.12

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J536	1122328.1	10040934	3188	9.78	3367.24	77.67
J54	1125327.9	10041538	3216	9.78	3376.44	69.52
J540	1123216.8	10044007	3230	9.78	3367.11	59.41
J542	1123717.6	10043709	3210	9.78	3368.84	68.82
J544	1122921.4	10044178	3238	9.78	3367.24	56
J546	1122910.7	10043167	3223	9.78	3367.06	62.42
J548	1122836.4	10040607	3178	9.78	3377.35	86.38
J550	1121429.3	10042126	3224	9.78	3365.37	61.25
J552	1121429.7	10042109	3224	9.78	3365.37	61.26
J554	1124113.5	10047573	3180	9.78	3374.78	84.4
J556	1123927.3	10047480	3182	9.78	3374.18	83.27
J558	1123608.1	10046856	3178	9.78	3373.86	84.86
J56	1125148.8	10041667	3203	9.78	3376.42	75.14
J560	1123546	10046621	3188	9.78	3373.74	80.48
J562	1123275.6	10046630	3188	9.78	3373.74	80.48
J564	1123000.7	10046638	3194	9.78	3373.7	77.86
J566	1122690.4	10046638	3194	9.78	3373.69	77.86
J568	1123546	10046479	3195	9.78	3373.7	77.43
J570	1123541.6	10046364	3198	9.78	3373.69	76.13
J572	1123541.6	10046093	3218	9.78	3373.69	67.46
J574	1122965.3	10047746	3090	9.78	3235.12	62.88
J576	1122756.9	10047990	3078	9.78	3235.02	68.03
J578	1122699.2	10047932	3082	9.78	3235	66.29
J58	1125227	10041771	3200	9.78	3376.71	76.57
J580	1123430.8	10048198	3110	9.78	3235.02	54.17
J582	1123719	10046486	3205	9.78	3373.7	73.1
J584	1123918.9	10040419	3193	9.78	3378.42	80.34
J586	1124622.2	10040824	3190	9.78	3380.19	82.41
J588	1124667	10041753	3190	9.78	3376.83	80.95
J590	1124650.8	10042484	3190	9.78	3369.64	77.84
J592	1124676.5	10043672	3208	9.78	3371.09	70.67
J594	1124679.8	10043917	3210	9.78	3370.41	69.51
J596	1123916.8	10040224	3192	9.78	3379.46	81.23
J598	1123920.7	10040593	3190	9.78	3377.69	81.33
J60	1125153.3	10041773	3200	9.78	3376.68	76.55
J600	1123960.9	10039405	3210	9.78	3385.06	75.85
J602	1123915.7	10038691	3170	9.78	3386.34	93.74
J604	1123276.7	10038802	3200	9.78	3386.32	80.73

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J606	1125613.8	10040660	3255	9.78	3380.53	54.39
J608	1123041.2	10046372	3196	9.78	3373.67	76.99
J610	1122685.5	10046975	3192	9.78	3373.69	78.73
J612	1123831	10044869	3240	9.78	3372.09	57.23
J614	1123362.1	10044494	3236	9.78	3369.84	57.99
J616	1122374.6	10044421	3225	9.78	3363.46	60
J618	1121393.2	10043917	3230	9.78	3360.85	56.7
J62	1125227	10042052	3195	9.78	3377.45	79.05
J620	1121762.7	10044511	3220	9.78	3361	61.1
J622	1121867.2	10042802	3220	9.78	3365.48	63.04
J624	1122343.9	10043246	3222	9.78	3366.22	62.49
J626	1122184	10041675	3200	9.78	3365.6	71.75
J628	1122418.5	10041365	3193	9.78	3375.76	79.19
J630	1123200.4	10041386	3187	9.78	3376.29	82.02
J632	1123215.5	10041139	3184	9.78	3376.88	83.58
J634	1122840.7	10040181	3187	9.78	3378.29	82.88
J636	1123632.3	10040007	3192	9.78	3380.17	81.53
J638	1124246.6	10039627	3205	9.78	3383.53	77.36
J64	1125882	10042044	3255	9.78	3377.88	53.24
J640	1123271.9	10041808	3192	9.78	3374.37	79.02
J642	1125480.4	10043891	3222	9.78	3375.31	66.43
J644	1123629.7	10042456	3193	9.78	3366.77	75.3
J646	1123015	10042460	3196	9.78	3365.19	73.31
J648	1123944.2	10043324	3200	9.78	3368.41	72.97
J650	1124266.5	10043316	3194	9.78	3368.35	75.55
J652	1123418.2	10047310	3135	9.78	3372.98	103.11
J654	1123431.2	10047915	3100	9.78	3235.05	58.52
J656	1125435.9	10040502	3230	9.78	3380.68	65.29
J658	1123772.5	10040006	3192	9.78	3380.54	81.69
J66	1125912	10042285	3254	9.78	3377.5	53.51
J660	1122416.7	10041207	3193	9.78	3376.12	79.34
J662	1121815.8	10042660	3222	9.78	3365.44	62.15
J664	1121600.9	10042286	3224	9.78	3365.36	61.25
J666	1121217.4	10043511	3223	9.78	3360.8	59.71
J668	1121875.6	10043169	3224	9.78	3365.61	61.36
J670	1123316.2	10042458	3193	9.78	3365.69	74.82
J672	1124092	10042774	3190	9.78	3369.84	77.92
J674	1123980	10043719	3204	9.78	3365.71	70.07

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J676	1123903.4	10045204	3235	9.78	3366.87	57.14
J678	1123442.7	10048158	3110	9.78	3235.02	54.17
J68	1125672.7	10042286	3228	9.78	3372.36	62.55
J680	1123380.6	10048225	3110	9.78	3235.02	54.17
J682	1123063.1	10048169	3100	9.78	3235.02	58.5
J684	1122895.5	10047898	3086	9.78	3235.06	64.59
J688	1123855.6	10047023	3180	9.78	3373.99	84.06
J690	1122626.7	10045017	3218	9.78	3360.6	61.79
J692	1121938.2	10043885	3238	9.78	3363.96	54.58
J694	1122202.5	10043832	3238	9.78	3365.14	55.09
J696	1122682.3	10043746	3238	9.78	3366.77	55.79
J698	1125018.8	10042054	3193	9.78	3377.4	79.9
J70	1125672.7	10042387	3228	9.78	3372.32	62.53
J700	1125011	10041754	3192	9.78	3377.39	80.33
J702	1124652.3	10042638	3192	9.78	3370.18	77.21
J704	1124649.1	10042317	3189	9.78	3369.37	78.15
J706	1125145.1	10043429	3210	9.78	3373.37	70.79
J708	1125467.3	10043244	3216	9.78	3373.94	68.43
J710	1124674.9	10043553	3206	9.78	3371.55	71.73
J712	1123455.6	10048115	3110	9.78	3235.03	54.17
J714	1123332.5	10048225	3110	9.78	3235.02	54.17
J72	1125457.5	10042300	3214	9.78	3369.5	67.38
J720	1124205.5	10047608	3180	9.78	3375.11	84.54
J722	1126592.1	10044849	3307	9.78	3375.91	29.86
J724	1125103.4	10045484	3250	9.78	3376.18	54.67
J726	1122233.4	10047038	3065	9.78	3234.82	73.58
J728	1121872.3	10047177	3060	9.78	3234.82	75.75
J730	1121326.8	10045288	3045	9.78	3234.72	82.2
J732	1120850	10044576	3015	9.78	3234.71	95.2
J734	1126122	10043420	3248	9.78	3376.02	55.47
J736	1125636.5	10041358	3257	9.78	3379.16	52.93
J738	1123723	10044190	3224	9.78	3368.85	62.76
J74	1125457.5	10042413	3214	9.78	3369.31	67.3
J740	1125109.4	10047292	3249	9.78	3375.37	54.76
J742	1125247.9	10039961	3260	9.78	3382.05	52.88
J744	1125220.9	10049016	3197	9.78	3375.2	77.21
J746	1125859.8	10048968	3223	9.78	3375.2	65.95
J748	1125769.5	10047902	3247	9.78	3375.21	55.56

Existing System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J750	1124992.9	10050432	3220	9.78	3375.21	67.25
J752	1124948.6	10050389	3218	9.78	3375.21	68.12
J754	1123449.9	10048728	3085	9.78	3375.04	125.67
J756	1123880.9	10048778	3111	9.78	3375	114.39
J758	1123501.1	10048585	3113	9.78	3375.05	113.55
J76	1125255.8	10042431	3205	9.78	3369.22	71.16
J760	1123667.7	10048341	3130	9.78	3375.06	106.19
J762	1123896.5	10038697	3170	9.78	3386.36	93.75
J78	1125242.3	10042303	3205	9.78	3369.1	71.11
J80	1125361.2	10042301	3209	9.78	3369.16	69.4
J82	1125361.2	10042198	3210	9.78	3369.11	68.94
J84	1125934.7	10042714	3255	9.78	3376.94	52.84
J86	1126252.3	10042705	3287	9.78	3376.94	38.97
J88	1125934.6	10042756	3255	9.78	3376.86	52.8
J90	1125457.4	10042761	3225	9.78	3372.62	63.96
J92	1125457.4	10042860	3218	9.78	3372.57	66.98
J94	1125454.4	10042665	3221	9.78	3372.27	65.55
J96	1125323.5	10042668	3209	9.78	3372.21	70.72
J98	1125452.9	10042630	3217	9.78	3372.26	67.27
V8002_NU	1121346.3	10045216	3043	9.78	3234.71	83.07
V8002_ND	1121366.9	10045146	3043	9.78	3234.71	83.07
V8004_NU	1123221.5	10047426	3120	9.78	3372.56	109.43
V8004_ND	1123060.2	10047523	3120	9.78	3235.39	50
V8010_NU	1122217.1	10046991	3065	9.78	3234.81	73.58
V8010_ND	1121854.4	10046291	3065	9.78	3234.81	73.58

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J100	1125999	10043006	3254	4.24	3384.96	56.75
J102	1125789	10043009	3236	4.24	3384.59	64.38
J104	1125787	10042941	3240	4.24	3384.58	62.65
J106	1125745	10043014	3234	4.24	3384.56	65.24
J108	1125746	10043169	3238	4.24	3384.56	63.5
J110	1125653	10043014	3227	4.24	3384.55	68.27
J112	1126111	10043156	3255	4.24	3384.92	56.3
J114	1126189	10043213	3260	4.24	3384.83	54.09
J116	1126078	10043285	3250	4.24	3384.89	58.45
J118	1125926	10043283	3244	4.24	3384.89	61.05
J120	1126006	10043423	3248	4.24	3384.86	59.3
J122	1125841	10043421	3242	4.24	3384.74	61.85
J124	1125843	10043313	3239	4.24	3384.73	63.15
J126	1125667	10043422	3228	4.24	3384.63	67.87
J128	1125668	10043677	3232	4.24	3384.46	66.06
J130	1125668	10043732	3233	4.24	3384.45	65.62
J132	1125164	10043574	3220	4.24	3384.4	71.24
J134	1125471	10043427	3218	4.24	3384.51	72.15
J136	1125464	10043063	3215	4.24	3384.44	73.42
J138	1125894	10043888	3247	4.24	3384.85	59.73
J14	1123884	10038702	3170	4.24	3386.87	93.97
J140	1125067	10043894	3220	4.24	3384.68	71.36
J142	1125820	10044147	3253	4.24	3384.85	57.13
J144	1125158	10044156	3229	4.24	3384.79	67.5
J146	1125772	10044440	3249	4.24	3384.84	58.86
J150	1125760	10044468	3249	4.24	3384.84	58.86
J152	1125070	10044495	3230	4.24	3384.78	67.07
J154	1125605	10044857	3250	4.24	3384.84	58.43
J156	1124670	10044862	3224	4.24	3384.41	69.51
J158	1125084	10044940	3234	4.24	3384.84	65.36
J16	1122873	10038869	3220	4.24	3386.87	72.3
J160	1125559	10044955	3250	4.24	3384.85	58.43
J162	1125462	10045164	3250	4.24	3384.86	58.43
J164	1125082	10045119	3237	4.24	3384.85	64.06
J166	1125311	10045480	3248	4.24	3384.87	59.31
J170	1125096	10046118	3253	4.24	3384.82	57.12
J174	1125099	10046332	3255	4.24	3384.8	56.24
J176	1125100	10046582	3252	4.24	3384.78	57.53

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J178	1125446	10046575	3264	4.24	3384.78	52.33
J18	1124240	10039216	3210	4.24	3386.65	76.54
J180	1125709	10046321	3268	4.24	3384.72	50.58
J182	1125709	10046551	3274	4.24	3384.72	47.98
J184	1125954	10046316	3277	4.24	3384.7	46.67
J186	1125959	10046567	3282	4.24	3384.7	44.5
J188	1126222	10046313	3287	4.24	3384.7	42.33
J190	1125107	10046822	3249	4.24	3384.76	58.82
J192	1125605	10046828	3267	4.24	3384.72	51.01
J194	1126477	10046310	3290	4.24	3384.69	41.03
J196	1126225	10046578	3288	4.24	3384.69	41.9
J198	1126452	10046572	3290	4.24	3384.69	41.03
J20	1124936	10039498	3260	4.24	3386.3	54.72
J200	1126153	10046838	3286	4.24	3384.69	42.76
J202	1126401	10046870	3290	4.24	3384.69	41.03
J204	1125110	10047063	3250	4.24	3384.74	58.38
J206	1125853	10047423	3272	4.24	3384.7	48.83
J208	1125600	10047197	3268	4.24	3384.72	50.57
J210	1125865	10047045	3275	4.24	3384.69	47.53
J212	1126130	10047146	3284	4.24	3384.69	43.63
J214	1126359	10047149	3290	4.24	3384.69	41.03
J216	1126359	10047412	3285	4.24	3384.69	43.2
J218	1126130	10047418	3278	4.24	3384.69	46.23
J22	1124948	10039509	3260	4.24	3386.28	54.72
J220	1125105	10047917	3205	4.24	3384.7	77.86
J222	1125105	10047957	3205	4.24	3384.7	77.86
J224	1124995	10047917	3197	4.24	3384.7	81.33
J226	1124010	10045975	3250	4.24	3379.12	55.95
J228	1123938	10045852	3250	4.24	3379.21	55.99
J230	1123804	10045935	3245	4.24	3379.11	58.11
J232	1123645	10045276	3242	4.24	3383.17	61.17
J234	1124172	10045197	3230	4.24	3383.05	66.32
J236	1123445	10045194	3248	4.24	3383.86	58.87
J238	1123391	10044874	3240	4.24	3383.93	62.36
J24	1124612	10039537	3227	4.24	3386.07	68.93
J240	1124671	10045070	3230	4.24	3384.4	66.9
J242	1124653	10044538	3220	4.24	3384.18	71.14
J244	1124859	10044541	3218	4.24	3384.16	72

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J246	1124644	10044290	3218	4.24	3384.16	72
J248	1123357	10044196	3234	4.24	3383.46	64.76
J250	1123990	10044107	3214	4.24	3382.67	73.08
J252	1123859	10043966	3210	4.24	3382.6	74.79
J254	1124683	10044130	3212	4.24	3383.69	74.39
J256	1124684	10043432	3205	4.24	3384.12	77.61
J258	1124684	10043249	3203	4.24	3384.04	78.45
J26	1124424	10039560	3211	4.24	3386.06	75.85
J260	1124882	10043093	3198	4.24	3384.02	80.6
J262	1124654	10042762	3194	4.24	3383.87	82.27
J264	1124262	10042774	3190	4.24	3383.76	83.96
J266	1123934	10042774	3190	4.24	3383.56	83.87
J268	1123637	10042774	3190	4.24	3383.42	83.81
J270	1123611	10042979	3200	4.24	3383.34	79.44
J272	1123620	10043324	3207	4.24	3383.34	76.41
J274	1123621	10043427	3212	4.24	3383.28	74.21
J276	1123382	10043327	3221	4.24	3383.19	70.28
J278	1123166	10043500	3225	4.24	3383.12	68.51
J28	1124400	10039807	3203	4.24	3386.03	79.31
J280	1123977	10043483	3198	4.24	3383.12	80.21
J282	1124279	10043485	3198	4.24	3383.12	80.21
J284	1124647	10042156	3188	4.24	3383.55	84.73
J286	1124341	10041745	3188	4.24	3384.95	85.34
J288	1124622	10041108	3188	4.24	3385.64	85.64
J290	1124622	10040543	3195	4.24	3385.76	82.66
J292	1124828	10040539	3198	4.24	3385.74	81.35
J294	1124725	10040253	3195	4.24	3385.87	82.71
J296	1124918	10040249	3203	4.24	3385.86	79.23
J298	1124145	10041286	3188	4.24	3385	85.36
J30	1124835	10039531	3244	4.24	3386.27	61.64
J300	1124043	10041114	3188	4.24	3385	85.36
J302	1124040	10040785	3189	4.24	3385.03	84.94
J304	1124196	10040785	3188	4.24	3385.03	85.37
J306	1123769	10040791	3189	4.24	3385.06	84.95
J308	1123923	10040785	3189	4.24	3385.06	84.95
J310	1124727	10039992	3198	4.24	3386.03	81.47
J312	1124757	10039992	3198	4.24	3386.03	81.47
J314	1124253	10039999	3195	4.24	3386.03	82.77

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J316	1123914	10040005	3193	4.24	3385.81	83.55
J318	1123887	10039438	3210	4.24	3386.62	76.53
J32	1125376	10039941	3260	4.24	3386.03	54.61
J320	1123307	10040009	3190	4.24	3385.52	84.72
J322	1122290	10040159	3030	4.24	3385.15	153.89
J324	1122840	10040396	3184	4.24	3385.21	87.18
J326	1122999	10040261	3186	4.24	3385.07	86.26
J328	1123180	10040549	3182	4.24	3385.07	87.99
J330	1123008	10040618	3178	4.24	3385.09	89.73
J332	1123230	10040679	3182	4.24	3385.06	87.98
J334	1123283	10040818	3179	4.24	3385.05	89.28
J336	1123546	10041082	3185	4.24	3384.73	86.54
J338	1122894	10040872	3178	4.24	3385.02	89.7
J340	1122440	10040465	3169	4.24	3384.61	93.43
J342	1122623	10040641	3178	4.24	3384.62	89.53
J344	1122772	10040780	3178	4.24	3385.07	89.72
J346	1122742	10040713	3178	4.24	3385.08	89.73
J350	1122730	10040740	3178	4.24	3385.07	89.72
J352	1122722	10040733	3178	4.24	3385.08	89.73
J354	1122884	10041060	3183	4.24	3384.96	87.51
J356	1123612	10041383	3188	4.24	3384.9	85.32
J358	1122415	10041101	3192	4.24	3384.95	83.6
J36	1125567	10040443	3255	4.24	3385.82	56.69
J360	1122206	10041099	3192	4.24	3384.95	83.6
J364	1122181	10040941	3189	4.24	3382.95	84.04
J366	1122148	10040941	3189	4.24	3382.94	84.04
J368	1122218	10040941	3188	4.24	3383	84.49
J370	1122183	10041179	3194	4.24	3382.86	81.83
J372	1122866	10041749	3195	4.24	3384.57	82.14
J374	1123108	10041533	3188	4.24	3384.28	85.05
J376	1123750	10041802	3188	4.24	3384.53	85.16
J378	1122926	10042198	3198	4.24	3382.72	80.04
J38	1125085	10040522	3214	4.24	3385.73	74.41
J380	1123041	10043167	3222	4.24	3383.14	69.82
J382	1123039	10043368	3226	4.24	3383.14	68.09
J384	1123031	10043048	3222	4.24	3383.06	69.79
J386	1122922	10043502	3228	4.24	3383.13	67.22
J388	1123012	10044175	3237	4.24	3383.21	63.35

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J390	1123018	10044630	3245	4.24	3382.92	59.76
J392	1123078	10045202	3250	4.24	3383.61	57.89
J394	1123076	10045132	3248	4.24	3383.6	58.76
J396	1123078	10045461	3252	4.24	3383.59	57.02
J398	1122934	10045990	3220	4.24	3376.23	67.7
J40	1125639	10040959	3255	4.24	3385.62	56.6
J400	1122775	10045992	3220	4.24	3376.34	67.74
J402	1122775	10046090	3205	4.24	3376.27	74.21
J404	1122471	10045807	3208	4.24	3378.72	73.97
J406	1122465	10046021	3204	4.24	3378.7	75.7
J408	1122469	10045657	3214	4.24	3378.98	71.49
J410	1122208	10045663	3212	4.24	3378.98	72.35
J412	1122586	10045406	3233	4.24	3379.94	63.67
J414	1122796	10045445	3245	4.24	3375.98	56.75
J416	1122323	10045307	3222	4.24	3381.84	69.26
J418	1122321	10045427	3220	4.24	3381.82	70.12
J42	1125221	10040818	3221	4.24	3385.57	71.31
J420	1122389	10045020	3209	4.24	3381.93	74.93
J422	1122884	10045014	3238	4.24	3381.83	62.32
J424	1122389	10044892	3209	4.24	3381.98	74.95
J426	1122376	10044717	3215	4.24	3382.13	72.42
J428	1122880	10044707	3242	4.24	3382.09	60.7
J430	1122384	10044188	3240	4.24	3382.66	61.82
J432	1122685	10044186	3240	4.24	3383.06	61.99
J434	1122742	10043462	3232	4.24	3383.06	65.45
J436	1122197	10043462	3228	4.24	3382.89	67.11
J438	1122208	10044182	3236	4.24	3382.65	63.54
J44	1125638	10041202	3255	4.24	3385.53	56.56
J440	1121938	10044182	3240	4.24	3382.53	61.76
J442	1121938	10043551	3234	4.24	3382.5	64.34
J444	1122876	10043237	3224	4.24	3383.09	68.93
J446	1122870	10043168	3223	4.24	3383.1	69.37
J448	1122870	10042870	3222	4.24	3382.94	69.74
J450	1122870	10042833	3222	4.24	3382.93	69.73
J452	1122578	10042833	3220	4.24	3382.89	70.58
J454	1122578	10043042	3224	4.24	3382.89	68.85
J456	1122333	10042839	3220	4.24	3382.89	70.58
J458	1122833	10042692	3221	4.24	3382.91	70.16

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J46	1125334	10041215	3220	4.24	3385.5	71.71
J460	1122321	10042093	3208	4.24	3382.81	75.75
J462	1122197	10042443	3216	4.24	3382.78	72.27
J464	1121807	10042513	3224	4.24	3382.79	68.8
J466	1121782	10042455	3224	4.24	3382.79	68.8
J468	1121773	10042102	3218	4.24	3382.79	71.4
J470	1121276	10042124	3222	4.24	3382.78	69.67
J472	1122185	10042099	3208	4.24	3382.81	75.74
J474	1121872	10041867	3209	4.24	3382.83	75.32
J476	1121843	10041417	3202	4.24	3382.84	78.36
J478	1121573	10040954	3197	4.24	3382.85	80.53
J48	1125796	10041657	3255	4.24	3385.35	56.48
J480	1121534	10041237	3208	4.24	3382.84	75.76
J482	1121530	10040954	3195	4.24	3382.84	81.39
J484	1121380	10040935	3195	4.24	3382.83	81.39
J486	1121376	10041089	3205	4.24	3382.83	77.05
J488	1121080	10041046	3195	4.24	3382.82	81.38
J490	1120796	10041219	3195	4.24	3382.82	81.38
J492	1121080	10041410	3215	4.24	3382.81	72.71
J498	1121390	10041422	3216	4.24	3382.83	72.29
J50	1125375	10041666	3215	4.24	3384.98	73.65
J502	1121107	10041773	3220	4.24	3382.79	70.54
J504	1121152	10042114	3220	4.24	3382.78	70.53
J508	1120998	10042132	3200	4.24	3382.76	79.19
J510	1121405	10043101	3215	4.24	3381.85	72.3
J512	1121401	10043516	3225	4.24	3381.89	67.98
J514	1121674	10043531	3228	4.24	3382.48	66.93
J516	1121668	10043862	3234	4.24	3382.48	64.34
J518	1126598	10045335	3307	4.24	3384.84	33.73
J52	1125329	10041667	3213	4.24	3384.95	74.51
J520	1126586	10044363	3315	4.24	3384.84	30.26
J522	1126615	10044079	3320	4.24	3384.84	28.1
J524	1126475	10044087	3300	4.24	3384.85	36.76
J526	1126512	10043330	3310	4.24	3384.84	32.43
J528	1124646	10044860	3224	4.24	3384.4	69.5
J530	1123983	10043964	3210	4.24	3382.68	74.82
J532	1121045	10041644	3220	4.24	3382.8	70.54
J534	1121276	10042112	3222	4.24	3382.78	69.67

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J536	1122328	10040934	3188	4.24	3383.14	84.56
J54	1125328	10041538	3216	4.24	3384.94	73.2
J540	1123217	10044007	3230	4.24	3383.12	66.35
J542	1123718	10043709	3210	4.24	3383.46	75.16
J544	1122921	10044178	3238	4.24	3383.15	62.89
J546	1122911	10043167	3223	4.24	3383.11	69.38
J548	1122836	10040607	3178	4.24	3385.12	89.74
J550	1121429	10042126	3224	4.24	3382.78	68.8
J552	1121430	10042109	3224	4.24	3382.78	68.8
J554	1124114	10047573	3180	4.24	3384.62	88.66
J556	1123927	10047480	3182	4.24	3384.5	87.74
J558	1123608	10046856	3178	4.24	3384.44	89.45
J56	1125149	10041667	3203	4.24	3384.94	78.83
J560	1123546	10046621	3188	4.24	3384.42	85.11
J562	1123276	10046630	3188	4.24	3384.41	85.11
J564	1123001	10046638	3194	4.24	3384.41	82.5
J566	1122690	10046638	3194	4.24	3384.4	82.5
J568	1123546	10046479	3195	4.24	3384.41	82.07
J570	1123542	10046364	3198	4.24	3384.41	80.77
J572	1123542	10046093	3218	4.24	3384.4	72.1
J574	1122965	10047746	3090	4.24	3235.34	62.98
J576	1122757	10047990	3078	4.24	3235.32	68.17
J578	1122699	10047932	3082	4.24	3235.32	66.43
J58	1125227	10041771	3200	4.24	3384.99	80.16
J580	1123431	10048198	3110	4.24	3235.32	54.3
J582	1123719	10046486	3205	4.24	3384.41	77.74
J584	1123919	10040419	3193	4.24	3385.32	83.33
J586	1124622	10040824	3190	4.24	3385.67	84.78
J588	1124667	10041753	3190	4.24	3385.01	84.5
J590	1124651	10042484	3190	4.24	3383.62	83.89
J592	1124676	10043672	3208	4.24	3383.9	76.22
J594	1124680	10043917	3210	4.24	3383.77	75.29
J596	1123917	10040224	3192	4.24	3385.53	83.86
J598	1123921	10040593	3190	4.24	3385.18	84.57
J60	1125153	10041773	3200	4.24	3384.99	80.15
J600	1123961	10039405	3210	4.24	3386.62	76.53
J602	1123916	10038691	3170	4.24	3386.87	93.97
J604	1123277	10038802	3200	4.24	3386.87	80.97

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J606	1125614	10040660	3255	4.24	3385.74	56.65
J608	1123041	10046372	3196	4.24	3384.4	81.63
J610	1122686	10046975	3192	4.24	3384.4	83.37
J612	1123831	10044869	3240	4.24	3384.09	62.43
J614	1123362	10044494	3236	4.24	3383.65	63.98
J616	1122375	10044421	3225	4.24	3382.41	68.21
J618	1121393	10043917	3230	4.24	3381.9	65.82
J62	1125227	10042052	3195	4.24	3385.14	82.39
J620	1121763	10044511	3220	4.24	3381.93	70.16
J622	1121867	10042802	3220	4.24	3382.8	70.54
J624	1122344	10043246	3222	4.24	3382.95	69.74
J626	1122184	10041675	3200	4.24	3382.83	79.22
J628	1122419	10041365	3193	4.24	3384.81	83.11
J630	1123200	10041386	3187	4.24	3384.91	85.76
J632	1123216	10041139	3184	4.24	3385.03	87.11
J634	1122841	10040181	3187	4.24	3385.3	85.92
J636	1123632	10040007	3192	4.24	3385.67	83.92
J638	1124247	10039627	3205	4.24	3386.32	78.57
J64	1125882	10042044	3255	4.24	3385.22	56.42
J640	1123272	10041808	3192	4.24	3384.54	83.43
J642	1125480	10043891	3222	4.24	3384.72	70.51
J644	1123630	10042456	3193	4.24	3383.06	82.35
J646	1123015	10042460	3196	4.24	3382.75	80.92
J648	1123944	10043324	3200	4.24	3383.38	79.46
J650	1124266	10043316	3194	4.24	3383.36	82.05
J652	1123418	10047310	3135	4.24	3384.26	108.01
J654	1123431	10047915	3100	4.24	3235.33	58.64
J656	1125436	10040502	3230	4.24	3385.76	67.49
J658	1123772	10040006	3192	4.24	3385.74	83.95
J66	1125912	10042285	3254	4.24	3385.15	56.83
J660	1122417	10041207	3193	4.24	3384.88	83.14
J662	1121816	10042660	3222	4.24	3382.79	69.67
J664	1121601	10042286	3224	4.24	3382.78	68.8
J666	1121217	10043511	3223	4.24	3381.89	68.85
J668	1121876	10043169	3224	4.24	3382.83	68.82
J670	1123316	10042458	3193	4.24	3382.84	82.26
J672	1124092	10042774	3190	4.24	3383.66	83.91
J674	1123980	10043719	3204	4.24	3382.85	77.49

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J676	1123903	10045204	3235	4.24	3383.07	64.16
J678	1123443	10048158	3110	4.24	3235.32	54.3
J68	1125673	10042286	3228	4.24	3384.14	67.66
J680	1123381	10048225	3110	4.24	3235.32	54.3
J682	1123063	10048169	3100	4.24	3235.32	58.63
J684	1122895	10047898	3086	4.24	3235.33	64.7
J688	1123856	10047023	3180	4.24	3384.46	88.59
J690	1122627	10045017	3218	4.24	3381.85	71
J692	1121938	10043885	3238	4.24	3382.51	62.61
J694	1122203	10043832	3238	4.24	3382.74	62.71
J696	1122682	10043746	3238	4.24	3383.06	62.85
J698	1125019	10042054	3193	4.24	3385.13	83.25
J70	1125673	10042387	3228	4.24	3384.13	67.65
J700	1125011	10041754	3192	4.24	3385.13	83.68
J702	1124652	10042638	3192	4.24	3383.72	83.07
J704	1124649	10042317	3189	4.24	3383.56	84.3
J706	1125145	10043429	3210	4.24	3384.34	75.54
J708	1125467	10043244	3216	4.24	3384.45	72.99
J710	1124675	10043553	3206	4.24	3383.99	77.12
J712	1123456	10048115	3110	4.24	3235.32	54.3
J714	1123332	10048225	3110	4.24	3235.32	54.3
J72	1125458	10042300	3214	4.24	3383.58	73.48
J720	1124206	10047608	3180	4.24	3384.68	88.69
J722	1126592	10044849	3307	4.24	3384.84	33.73
J724	1125103	10045484	3250	4.24	3384.89	58.45
J726	1122233	10047038	3065	4.24	3235.28	73.78
J728	1121872	10047177	3060	4.24	3235.28	75.95
J730	1121327	10045288	3045	4.24	3235.26	82.44
J732	1120850	10044576	3015	4.24	3235.26	95.44
J734	1126122	10043420	3248	4.24	3384.86	59.3
J736	1125637	10041358	3257	4.24	3385.47	55.67
J738	1123723	10044190	3224	4.24	3383.46	69.09
J74	1125458	10042413	3214	4.24	3383.55	73.46
J740	1125109	10047292	3249	4.24	3384.73	58.81
J742	1125248	10039961	3260	4.24	3386.03	54.61
J744	1125221	10049016	3197	4.24	3384.7	81.33
J746	1125860	10048968	3223	4.24	3384.7	70.06
J748	1125770	10047902	3247	4.24	3384.7	59.67

LaVerkin Pond HGL @ 3400 System Performance - (ADD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J750	1124993	10050432	3220	4.24	3384.7	71.37
J752	1124949	10050389	3218	4.24	3384.7	72.23
J754	1123450	10048728	3085	4.24	3384.67	129.85
J756	1123881	10048778	3111	4.24	3384.66	118.58
J758	1123501	10048585	3113	4.24	3384.67	117.71
J76	1125256	10042431	3205	4.24	3383.53	77.36
J760	1123668	10048341	3130	4.24	3384.67	110.35
J762	1123897	10038697	3170	4.24	3386.87	93.97
J78	1125242	10042303	3205	4.24	3383.5	77.35
J80	1125361	10042301	3209	4.24	3383.52	75.62
J82	1125361	10042198	3210	4.24	3383.51	75.18
J84	1125935	10042714	3255	4.24	3385.04	56.35
J86	1126252	10042705	3287	4.24	3385.04	42.48
J88	1125935	10042756	3255	4.24	3385.02	56.34
J90	1125457	10042761	3225	4.24	3384.19	68.98
J92	1125457	10042860	3218	4.24	3384.18	72.01
J94	1125454	10042665	3221	4.24	3384.12	70.68
J96	1125323	10042668	3209	4.24	3384.11	75.88
J98	1125453	10042630	3217	4.24	3384.12	72.41
V8002_NU	1121346	10045216	3043	4.24	3235.26	83.31
V8002_ND	1121367	10045146	3043	4.24	3235.26	83.31
V8004_NU	1123222	10047426	3120	4.24	3384.18	114.47
V8004_ND	1123060	10047523	3120	4.24	3235.39	50
V8010_NU	1122217	10046991	3065	4.24	3235.28	73.78
V8010_ND	1121854	10046291	3065	4.24	3235.28	73.78

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J100	1125999	10043006.15	3254	8.48	3379.61	54.43
J102	1125789	10043009.16	3236	8.48	3378.27	61.65
J104	1125787	10042941.46	3240	8.48	3378.25	59.9
J106	1125745	10043013.67	3234	8.48	3378.15	62.46
J108	1125746	10043168.62	3238	8.48	3378.15	60.73
J110	1125653	10043013.67	3227	8.48	3378.12	65.48
J112	1126111	10043155.56	3255	8.48	3379.47	53.93
J114	1126189	10043212.73	3260	8.48	3379.15	51.63
J116	1126078	10043284.94	3250	8.48	3379.36	56.05
J118	1125926	10043283.43	3244	8.48	3379.35	58.65
J120	1126006	10043423.33	3248	8.48	3379.24	56.87
J122	1125841	10043420.85	3242	8.48	3378.82	59.28
J124	1125843	10043312.54	3239	8.48	3378.78	60.57
J126	1125667	10043422.36	3228	8.48	3378.4	65.17
J128	1125668	10043676.58	3232	8.48	3377.77	63.16
J130	1125668	10043732.24	3233	8.48	3377.75	62.72
J132	1125164	10043574.29	3220	8.48	3377.58	68.28
J134	1125471	10043426.87	3218	8.48	3377.98	69.32
J136	1125464	10043062.82	3215	8.48	3377.71	70.5
J138	1125894	10043887.76	3247	8.48	3379.21	57.29
J14	1123884	10038701.67	3170	8.48	3386.54	93.83
J140	1125067	10043893.79	3220	8.48	3378.6	68.72
J142	1125820	10044146.52	3253	8.48	3379.2	54.68
J144	1125158	10044155.54	3229	8.48	3378.99	64.99
J146	1125772	10044440.44	3249	8.48	3379.19	56.41
J150	1125760	10044467.68	3249	8.48	3379.19	56.41
J152	1125070	10044494.85	3230	8.48	3378.96	64.54
J154	1125605	10044857.39	3250	8.48	3379.18	55.97
J156	1124670	10044862.08	3224	8.48	3377.63	66.57
J158	1125084	10044940.31	3234	8.48	3379.16	62.9
J16	1122873	10038868.78	3220	8.48	3386.51	72.15
J160	1125559	10044955.35	3250	8.48	3379.2	55.98
J162	1125462	10045164.45	3250	8.48	3379.23	56
J164	1125082	10045119.32	3237	8.48	3379.2	61.62
J166	1125311	10045479.58	3248	8.48	3379.3	56.89
J170	1125096	10046118.46	3253	8.48	3379.11	54.64
J174	1125099	10046332.07	3255	8.48	3379.03	53.74
J176	1125100	10046582.25	3252	8.48	3378.95	55.01

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J178	1125446	10046574.73	3264	8.48	3378.95	49.81
J18	1124240	10039216.28	3210	8.48	3385.73	76.14
J180	1125709	10046320.76	3268	8.48	3378.74	47.99
J182	1125709	10046550.92	3274	8.48	3378.74	45.38
J184	1125954	10046316.24	3277	8.48	3378.68	44.06
J186	1125959	10046567.46	3282	8.48	3378.68	41.89
J188	1126222	10046313.23	3287	8.48	3378.65	39.71
J190	1125107	10046821.69	3249	8.48	3378.88	56.28
J192	1125605	10046827.71	3267	8.48	3378.72	48.41
J194	1126477	10046310.38	3290	8.48	3378.64	38.41
J196	1126225	10046578.15	3288	8.48	3378.64	39.27
J198	1126452	10046572.14	3290	8.48	3378.64	38.41
J20	1124936	10039498.35	3260	8.48	3384.45	53.93
J200	1126153	10046838.4	3286	8.48	3378.64	40.14
J202	1126401	10046869.99	3290	8.48	3378.64	38.41
J204	1125110	10047063.06	3250	8.48	3378.82	55.82
J206	1125853	10047422.59	3272	8.48	3378.65	46.21
J208	1125600	10047196.94	3268	8.48	3378.72	47.97
J210	1125865	10047045.01	3275	8.48	3378.64	44.91
J212	1126130	10047146.03	3284	8.48	3378.63	41
J214	1126359	10047149.04	3290	8.48	3378.63	38.4
J216	1126359	10047412.29	3285	8.48	3378.63	40.57
J218	1126130	10047418.31	3278	8.48	3378.63	43.6
J22	1124948	10039508.88	3260	8.48	3384.39	53.9
J220	1125105	10047916.83	3205	8.48	3378.67	75.25
J222	1125105	10047957.44	3205	8.48	3378.67	75.25
J224	1124995	10047916.83	3197	8.48	3378.66	78.71
J226	1124010	10045974.98	3250	8.48	3358.49	47.01
J228	1123938	10045852.01	3250	8.48	3358.82	47.15
J230	1123804	10045935.25	3245	8.48	3358.45	49.16
J232	1123645	10045276.06	3242	8.48	3373.14	56.82
J234	1124172	10045197.42	3230	8.48	3372.68	61.82
J236	1123445	10045194.39	3248	8.48	3375.61	55.29
J238	1123391	10044873.79	3240	8.48	3375.87	58.87
J24	1124612	10039537.47	3227	8.48	3383.66	67.88
J240	1124671	10045070.39	3230	8.48	3377.56	63.94
J242	1124653	10044538.06	3220	8.48	3376.77	67.93
J244	1124859	10044541.09	3218	8.48	3376.71	68.77

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J246	1124644	10044290.05	3218	8.48	3376.69	68.76
J248	1123357	10044196.31	3234	8.48	3374.16	60.73
J250	1123990	10044106.6	3214	8.48	3371.3	68.16
J252	1123859	10043966.22	3210	8.48	3371.06	69.79
J254	1124683	10044130.4	3212	8.48	3374.98	70.62
J256	1124684	10043431.87	3205	8.48	3376.54	74.33
J258	1124684	10043249.28	3203	8.48	3376.28	75.08
J26	1124424	10039560.03	3211	8.48	3383.59	74.79
J260	1124882	10043093.32	3198	8.48	3376.18	77.2
J262	1124654	10042762.38	3194	8.48	3375.64	78.71
J264	1124262	10042773.79	3190	8.48	3375.24	80.27
J266	1123934	10042773.79	3190	8.48	3374.54	79.96
J268	1123637	10042773.79	3190	8.48	3374.03	79.74
J270	1123611	10042979.2	3200	8.48	3373.74	75.28
J272	1123620	10043323.58	3207	8.48	3373.74	72.25
J274	1123621	10043426.53	3212	8.48	3373.5	69.98
J276	1123382	10043327.32	3221	8.48	3373.19	65.94
J278	1123166	10043499.53	3225	8.48	3372.94	64.1
J28	1124400	10039806.74	3203	8.48	3383.49	78.21
J280	1123977	10043482.69	3198	8.48	3372.94	75.8
J282	1124279	10043484.56	3198	8.48	3372.94	75.8
J284	1124647	10042155.56	3188	8.48	3374.48	80.8
J286	1124341	10041745.28	3188	8.48	3379.57	83.01
J288	1124622	10041107.8	3188	8.48	3382.09	84.1
J290	1124622	10040543.11	3195	8.48	3382.51	81.25
J292	1124828	10040538.91	3198	8.48	3382.44	79.92
J294	1124725	10040253.41	3195	8.48	3382.92	81.43
J296	1124918	10040249.22	3203	8.48	3382.86	77.93
J298	1124145	10041286.23	3188	8.48	3379.75	83.09
J30	1124835	10039531.45	3244	8.48	3384.35	60.81
J300	1124043	10041114.1	3188	8.48	3379.77	83.09
J302	1124040	10040784.52	3189	8.48	3379.87	82.7
J304	1124196	10040784.52	3188	8.48	3379.85	83.13
J306	1123769	10040790.82	3189	8.48	3379.98	82.75
J308	1123923	10040784.52	3189	8.48	3379.99	82.76
J310	1124727	10039992.28	3198	8.48	3383.5	80.38
J312	1124757	10039992.28	3198	8.48	3383.5	80.38
J314	1124253	10039998.58	3195	8.48	3383.5	81.68

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J316	1123914	10040004.87	3193	8.48	3382.7	82.2
J318	1123887	10039437.56	3210	8.48	3385.62	76.1
J32	1125376	10039940.89	3260	8.48	3383.5	53.51
J320	1123307	10040008.87	3190	8.48	3381.63	83.03
J322	1122290	10040158.62	3030	8.48	3380.29	151.78
J324	1122840	10040395.83	3184	8.48	3380.5	85.14
J326	1122999	10040261.48	3186	8.48	3379.99	84.05
J328	1123180	10040549.08	3182	8.48	3379.99	85.79
J330	1123008	10040618.35	3178	8.48	3380.08	87.56
J332	1123230	10040679.23	3182	8.48	3379.95	85.77
J334	1123283	10040817.78	3179	8.48	3379.91	87.06
J336	1123546	10041082.28	3185	8.48	3378.78	83.97
J338	1122894	10040872.36	3178	8.48	3379.82	87.45
J340	1122440	10040465.36	3169	8.48	3378.34	90.71
J342	1122623	10040640.98	3178	8.48	3378.36	86.82
J344	1122772	10040780.43	3178	8.48	3380	87.53
J346	1122742	10040713.3	3178	8.48	3380.03	87.54
J350	1122730	10040740.04	3178	8.48	3380.01	87.53
J352	1122722	10040733.27	3178	8.48	3380.02	87.53
J354	1122884	10041060.03	3183	8.48	3379.61	85.19
J356	1123612	10041382.77	3188	8.48	3379.4	82.93
J358	1122415	10041101.24	3192	8.48	3379.55	81.26
J36	1125567	10040442.66	3255	8.48	3382.75	55.35
J360	1122206	10041099.19	3192	8.48	3379.55	81.26
J364	1122181	10040940.96	3189	8.48	3372.32	79.43
J366	1122148	10040940.96	3189	8.48	3372.29	79.42
J368	1122218	10040940.96	3188	8.48	3372.51	79.95
J370	1122183	10041179.33	3194	8.48	3371.98	77.12
J372	1122866	10041748.55	3195	8.48	3378.2	79.38
J374	1123108	10041532.78	3188	8.48	3377.16	81.96
J376	1123750	10041802.49	3188	8.48	3378.03	82.34
J378	1122926	10042197.86	3198	8.48	3371.48	75.17
J38	1125085	10040522.38	3214	8.48	3382.41	72.97
J380	1123041	10043166.82	3222	8.48	3373.01	65.43
J382	1123039	10043368.2	3226	8.48	3372.99	63.69
J384	1123031	10043047.63	3222	8.48	3372.73	65.31
J386	1122922	10043501.52	3228	8.48	3372.95	62.81
J388	1123012	10044175.36	3237	8.48	3373.26	59.04

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J390	1123018	10044629.5	3245	8.48	3372.22	55.12
J392	1123078	10045201.71	3250	8.48	3374.71	54.04
J394	1123076	10045131.84	3248	8.48	3374.69	54.89
J396	1123078	10045460.63	3252	8.48	3374.63	53.14
J398	1122934	10045989.69	3220	8.48	3348.03	55.48
J40	1125639	10040959.04	3255	8.48	3382.01	55.03
J400	1122775	10045991.74	3220	8.48	3348.4	55.64
J402	1122775	10046090.38	3205	8.48	3348.17	62.03
J404	1122471	10045806.8	3208	8.48	3357.01	64.56
J406	1122465	10046020.51	3204	8.48	3356.94	66.27
J408	1122469	10045656.79	3214	8.48	3357.97	62.38
J410	1122208	10045662.95	3212	8.48	3357.95	63.24
J412	1122586	10045406.08	3233	8.48	3361.43	55.65
J414	1122796	10045445.13	3245	8.48	3347.11	44.24
J416	1122323	10045307.44	3222	8.48	3368.28	63.38
J418	1122321	10045426.63	3220	8.48	3368.24	64.23
J42	1125221	10040817.64	3221	8.48	3381.84	69.69
J420	1122389	10045019.75	3209	8.48	3368.61	69.16
J422	1122884	10045013.59	3238	8.48	3368.25	56.44
J424	1122389	10044891.58	3209	8.48	3368.81	69.25
J426	1122376	10044716.9	3215	8.48	3369.35	66.88
J428	1122880	10044706.63	3242	8.48	3369.19	55.11
J430	1122384	10044188.21	3240	8.48	3371.28	56.88
J432	1122685	10044186.15	3240	8.48	3372.7	57.5
J434	1122742	10043462.38	3232	8.48	3372.7	60.96
J436	1122197	10043462.38	3228	8.48	3372.08	62.43
J438	1122208	10044181.61	3236	8.48	3371.22	58.59
J44	1125638	10041201.73	3255	8.48	3381.68	54.89
J440	1121938	10044181.61	3240	8.48	3370.8	56.67
J442	1121938	10043550.74	3234	8.48	3370.68	59.23
J444	1122876	10043237.38	3224	8.48	3372.8	64.48
J446	1122870	10043167.51	3223	8.48	3372.85	64.93
J448	1122870	10042869.54	3222	8.48	3372.29	65.12
J450	1122870	10042832.55	3222	8.48	3372.23	65.09
J452	1122578	10042832.55	3220	8.48	3372.1	65.9
J454	1122578	10043042.16	3224	8.48	3372.08	64.16
J456	1122333	10042838.71	3220	8.48	3372.09	65.9
J458	1122833	10042691.99	3221	8.48	3372.18	65.51

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J46	1125334	10041215.27	3220	8.48	3381.58	70.01
J460	1122321	10042092.86	3208	8.48	3371.81	70.98
J462	1122197	10042443.34	3216	8.48	3371.71	67.47
J464	1121807	10042513.21	3224	8.48	3371.74	64.02
J466	1121782	10042455.06	3224	8.48	3371.74	64.01
J468	1121773	10042101.51	3218	8.48	3371.74	66.62
J470	1121276	10042124.21	3222	8.48	3371.71	64.87
J472	1122185	10042098.85	3208	8.48	3371.81	70.98
J474	1121872	10041866.64	3209	8.48	3371.88	70.58
J476	1121843	10041416.6	3202	8.48	3371.92	73.63
J478	1121573	10040953.58	3197	8.48	3371.95	75.81
J48	1125796	10041656.67	3255	8.48	3381.02	54.6
J480	1121534	10041237.16	3208	8.48	3371.92	71.03
J482	1121530	10040953.58	3195	8.48	3371.92	76.66
J484	1121380	10040935.08	3195	8.48	3371.88	76.64
J486	1121376	10041089.2	3205	8.48	3371.88	72.31
J488	1121080	10041046.05	3195	8.48	3371.84	76.62
J490	1120796	10041218.67	3195	8.48	3371.84	76.62
J492	1121080	10041409.78	3215	8.48	3371.83	67.95
J498	1121390	10041422.11	3216	8.48	3371.89	67.55
J50	1125375	10041665.7	3215	8.48	3379.7	71.36
J502	1121107	10041773	3220	8.48	3371.75	65.75
J504	1121152	10042114.49	3220	8.48	3371.71	65.74
J508	1120998	10042132.01	3200	8.48	3371.62	74.36
J510	1121405	10043101.18	3215	8.48	3368.34	66.44
J512	1121401	10043516.28	3225	8.48	3368.47	62.16
J514	1121674	10043531.31	3228	8.48	3370.6	61.79
J516	1121668	10043862.16	3234	8.48	3370.62	59.2
J518	1126598	10045335.4	3307	8.48	3379.16	31.27
J52	1125329	10041667.2	3213	8.48	3379.58	72.18
J520	1126586	10044363.41	3315	8.48	3379.16	27.8
J522	1126615	10044078.7	3320	8.48	3379.17	25.64
J524	1126475	10044086.92	3300	8.48	3379.19	34.31
J526	1126512	10043329.84	3310	8.48	3379.16	29.97
J528	1124646	10044859.56	3224	8.48	3377.56	66.54
J530	1123983	10043963.76	3210	8.48	3371.35	69.91
J532	1121045	10041643.81	3220	8.48	3371.77	65.76
J534	1121276	10042111.69	3222	8.48	3371.71	64.87

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J536	1122328	10040934.14	3188	8.48	3373.03	80.17
J54	1125328	10041537.83	3216	8.48	3379.54	70.86
J540	1123217	10044006.96	3230	8.48	3372.94	61.94
J542	1123718	10043708.89	3210	8.48	3374.16	71.13
J544	1122921	10044178.35	3238	8.48	3373.03	58.51
J546	1122911	10043167.34	3223	8.48	3372.9	64.95
J548	1122836	10040607.49	3178	8.48	3380.18	87.6
J550	1121429	10042126	3224	8.48	3371.71	64
J552	1121430	10042108.54	3224	8.48	3371.71	64
J554	1124114	10047573.47	3180	8.48	3378.36	85.95
J556	1123927	10047480.41	3182	8.48	3377.93	84.9
J558	1123608	10046855.61	3178	8.48	3377.71	86.53
J56	1125149	10041667.2	3203	8.48	3379.52	76.49
J560	1123546	10046620.76	3188	8.48	3377.63	82.17
J562	1123276	10046629.62	3188	8.48	3377.63	82.17
J564	1123001	10046638.48	3194	8.48	3377.6	79.55
J566	1122690	10046638.48	3194	8.48	3377.59	79.55
J568	1123546	10046478.96	3195	8.48	3377.6	79.12
J570	1123542	10046363.75	3198	8.48	3377.59	77.82
J572	1123542	10046093.45	3218	8.48	3377.59	69.15
J574	1122965	10047746.28	3090	8.48	3235.2	62.92
J576	1122757	10047990	3078	8.48	3235.13	68.08
J578	1122699	10047932.39	3082	8.48	3235.11	66.34
J58	1125227	10041771	3200	8.48	3379.73	77.88
J580	1123431	10048198.26	3110	8.48	3235.13	54.22
J582	1123719	10046485.61	3205	8.48	3377.6	74.79
J584	1123919	10040419.38	3193	8.48	3380.93	81.43
J586	1124622	10040823.62	3190	8.48	3382.18	83.27
J588	1124667	10041752.7	3190	8.48	3379.81	82.24
J590	1124651	10042483.64	3190	8.48	3374.73	80.04
J592	1124676	10043672.36	3208	8.48	3375.76	72.69
J594	1124680	10043916.86	3210	8.48	3375.28	71.61
J596	1123917	10040224.41	3192	8.48	3381.67	82.18
J598	1123921	10040593.44	3190	8.48	3380.42	82.51
J60	1125153	10041772.51	3200	8.48	3379.7	77.86
J600	1123961	10039404.97	3210	8.48	3385.63	76.1
J602	1123916	10038690.63	3170	8.48	3386.53	93.82
J604	1123277	10038802.09	3200	8.48	3386.52	80.82

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J606	1125614	10040659.62	3255	8.48	3382.43	55.21
J608	1123041	10046371.78	3196	8.48	3377.58	78.68
J610	1122686	10046974.97	3192	8.48	3377.59	80.42
J612	1123831	10044868.8	3240	8.48	3376.46	59.13
J614	1123362	10044493.56	3236	8.48	3374.87	60.17
J616	1122375	10044420.94	3225	8.48	3370.36	62.98
J618	1121393	10043917.14	3230	8.48	3368.52	60.02
J62	1125227	10042052.31	3195	8.48	3380.24	80.27
J620	1121763	10044510.85	3220	8.48	3368.62	64.4
J622	1121867	10042801.6	3220	8.48	3371.79	65.77
J624	1122344	10043245.51	3222	8.48	3372.31	65.13
J626	1122184	10041674.73	3200	8.48	3371.87	74.47
J628	1122419	10041364.82	3193	8.48	3379.06	80.62
J630	1123200	10041386.25	3187	8.48	3379.43	83.38
J632	1123216	10041138.59	3184	8.48	3379.85	84.86
J634	1122841	10040180.52	3187	8.48	3380.84	83.99
J636	1123632	10040006.73	3192	8.48	3382.17	82.4
J638	1124247	10039627.33	3205	8.48	3384.55	77.8
J64	1125882	10042043.75	3255	8.48	3380.55	54.4
J640	1123272	10041808.29	3192	8.48	3378.07	80.62
J642	1125480	10043890.78	3222	8.48	3378.73	67.91
J644	1123630	10042455.51	3193	8.48	3372.7	77.86
J646	1123015	10042459.81	3196	8.48	3371.58	76.08
J648	1123944	10043323.67	3200	8.48	3373.86	75.33
J650	1124266	10043316.47	3194	8.48	3373.82	77.92
J652	1123418	10047309.59	3135	8.48	3377.09	104.9
J654	1123431	10047915.46	3100	8.48	3235.15	58.56
J656	1125436	10040501.92	3230	8.48	3382.53	66.09
J658	1123772	10040005.81	3192	8.48	3382.43	82.51
J66	1125912	10042284.87	3254	8.48	3380.28	54.72
J660	1122417	10041206.64	3193	8.48	3379.31	80.73
J662	1121816	10042659.51	3222	8.48	3371.76	64.89
J664	1121601	10042286.19	3224	8.48	3371.7	64
J666	1121217	10043510.76	3223	8.48	3368.48	63.03
J668	1121876	10043168.63	3224	8.48	3371.88	64.08
J670	1123316	10042457.7	3193	8.48	3371.93	77.53
J672	1124092	10042773.79	3190	8.48	3374.87	80.1
J674	1123980	10043718.54	3204	8.48	3371.95	72.77

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J676	1123903	10045203.74	3235	8.48	3372.76	59.69
J678	1123443	10048158.37	3110	8.48	3235.13	54.22
J68	1125673	10042286.37	3228	8.48	3376.65	64.41
J680	1123381	10048224.98	3110	8.48	3235.13	54.22
J682	1123063	10048169.28	3100	8.48	3235.13	58.55
J684	1122895	10047897.93	3086	8.48	3235.16	64.63
J688	1123856	10047023.27	3180	8.48	3377.81	85.71
J690	1122627	10045016.79	3218	8.48	3368.34	65.14
J692	1121938	10043885.16	3238	8.48	3370.71	57.5
J694	1122203	10043832.47	3238	8.48	3371.55	57.87
J696	1122682	10043745.94	3238	8.48	3372.7	58.36
J698	1125019	10042053.89	3193	8.48	3380.21	81.12
J70	1125673	10042387.16	3228	8.48	3376.62	64.4
J700	1125011	10041753.69	3192	8.48	3380.21	81.55
J702	1124652	10042638.28	3192	8.48	3375.11	79.34
J704	1124649	10042317.38	3189	8.48	3374.54	80.39
J706	1125145	10043428.94	3210	8.48	3377.37	72.52
J708	1125467	10043244.32	3216	8.48	3377.77	70.09
J710	1124675	10043553.39	3206	8.48	3376.08	73.7
J712	1123456	10048115.41	3110	8.48	3235.13	54.22
J714	1123332	10048224.98	3110	8.48	3235.13	54.22
J72	1125458	10042299.91	3214	8.48	3374.63	69.6
J720	1124206	10047607.9	3180	8.48	3378.59	86.05
J722	1126592	10044849.4	3307	8.48	3379.16	31.27
J724	1125103	10045483.78	3250	8.48	3379.35	56.05
J726	1122233	10047037.76	3065	8.48	3234.99	73.65
J728	1121872	10047176.64	3060	8.48	3234.99	75.82
J730	1121327	10045288.28	3045	8.48	3234.91	82.29
J732	1120850	10044576.25	3015	8.48	3234.91	95.29
J734	1126122	10043419.85	3248	8.48	3379.24	56.87
J736	1125637	10041358.03	3257	8.48	3381.46	53.93
J738	1123723	10044190.25	3224	8.48	3374.17	65.07
J74	1125458	10042412.74	3214	8.48	3374.49	69.54
J740	1125109	10047291.81	3249	8.48	3378.78	56.23
J742	1125248	10039960.93	3260	8.48	3383.5	53.51
J744	1125221	10049016.34	3197	8.48	3378.66	78.71
J746	1125860	10048967.73	3223	8.48	3378.66	67.45
J748	1125770	10047901.75	3247	8.48	3378.67	57.05

LaVerkin Pond HGL @ 3400 System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J750	1124993	10050431.92	3220	8.48	3378.67	68.75
J752	1124949	10050388.73	3218	8.48	3378.67	69.62
J754	1123450	10048727.78	3085	8.48	3378.54	127.19
J756	1123881	10048778.13	3111	8.48	3378.52	115.92
J758	1123501	10048584.99	3113	8.48	3378.55	115.06
J76	1125256	10042430.79	3205	8.48	3374.43	73.41
J760	1123668	10048341.5	3130	8.48	3378.56	107.7
J762	1123897	10038697	3170	8.48	3386.54	93.83
J78	1125242	10042302.92	3205	8.48	3374.34	73.38
J80	1125361	10042301.42	3209	8.48	3374.38	71.66
J82	1125361	10042197.62	3210	8.48	3374.35	71.21
J84	1125935	10042714.17	3255	8.48	3379.89	54.12
J86	1126252	10042705.15	3287	8.48	3379.89	40.25
J88	1125935	10042756.43	3255	8.48	3379.83	54.09
J90	1125457	10042760.95	3225	8.48	3376.83	65.79
J92	1125457	10042860.23	3218	8.48	3376.8	68.81
J94	1125454	10042664.67	3221	8.48	3376.59	67.42
J96	1125323	10042667.68	3209	8.48	3376.54	72.6
J98	1125453	10042630.07	3217	8.48	3376.57	69.14
V8002_NU	1121346	10045216.01	3043	8.48	3234.91	83.16
V8002_ND	1121367	10045145.96	3043	8.48	3234.91	83.16
V8004_NU	1123222	10047426.2	3120	8.48	3376.79	111.27
V8004_ND	1123060	10047523.21	3120	8.48	3235.39	50
V8010_NU	1122217	10046990.55	3065	8.48	3234.98	73.65
V8010_ND	1121854	10046290.76	3065	8.48	3234.98	73.65

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J100	1125999	10043006.15	3254	11.87	3384.39	56.5
J102	1125789	10043009.16	3236	11.87	3381.89	63.21
J104	1125787	10042941.46	3240	11.87	3381.85	61.46
J106	1125745	10043013.67	3234	11.87	3381.67	63.99
J108	1125746	10043168.62	3238	11.87	3381.67	62.25
J110	1125653	10043013.67	3227	11.87	3381.61	66.99
J112	1126111	10043155.56	3255	11.87	3384.76	56.22
J114	1126189	10043212.73	3260	11.87	3384.17	53.8
J116	1126078	10043284.94	3250	11.87	3385.05	58.52
J118	1125926	10043283.43	3244	11.87	3385.02	61.11
J120	1126006	10043423.33	3248	11.87	3385.38	59.53
J122	1125841	10043420.85	3242	11.87	3385.13	62.02
J124	1125843	10043312.54	3239	11.87	3385.06	63.29
J126	1125667	10043422.36	3228	11.87	3384.88	67.98
J128	1125668	10043676.58	3232	11.87	3383.72	65.74
J130	1125668	10043732.24	3233	11.87	3383.68	65.29
J132	1125164	10043574.29	3220	11.87	3383.36	70.78
J134	1125471	10043426.87	3218	11.87	3384.67	72.22
J136	1125464	10043062.82	3215	11.87	3384.16	73.3
J138	1125894	10043887.76	3247	11.87	3386.92	60.63
J14	1123884	10038701.67	3170	11.87	3380.48	91.2
J140	1125067	10043893.79	3220	11.87	3385.78	71.83
J142	1125820	10044146.52	3253	11.87	3387.85	58.43
J144	1125158	10044155.54	3229	11.87	3387.46	68.66
J146	1125772	10044440.44	3249	11.87	3388.85	60.6
J150	1125760	10044467.68	3249	11.87	3389.04	60.68
J152	1125070	10044494.85	3230	11.87	3388.62	68.73
J154	1125605	10044857.39	3250	11.87	3390.45	60.86
J156	1124670	10044862.08	3224	11.87	3387.91	71.02
J158	1125084	10044940.31	3234	11.87	3391.04	68.04
J16	1122873	10038868.78	3220	11.87	3380.42	69.51
J160	1125559	10044955.35	3250	11.87	3391.11	61.14
J162	1125462	10045164.45	3250	11.87	3392.35	61.68
J164	1125082	10045119.32	3237	11.87	3392.3	67.29
J166	1125311	10045479.58	3248	11.87	3394.19	63.34
J170	1125096	10046118.46	3253	11.87	3396.18	62.04
J174	1125099	10046332.07	3255	11.87	3396.4	61.27
J176	1125100	10046582.25	3252	11.87	3396.65	62.68

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J178	1125446	10046574.73	3264	11.87	3396.65	57.48
J18	1124240	10039216.28	3210	11.87	3380.24	73.76
J180	1125709	10046320.76	3268	11.87	3396.22	55.56
J182	1125709	10046550.92	3274	11.87	3396.22	52.96
J184	1125954	10046316.24	3277	11.87	3396.2	51.65
J186	1125959	10046567.46	3282	11.87	3396.2	49.48
J188	1126222	10046313.23	3287	11.87	3396.2	47.32
J190	1125107	10046821.69	3249	11.87	3396.9	64.09
J192	1125605	10046827.71	3267	11.87	3396.52	56.12
J194	1126477	10046310.38	3290	11.87	3396.2	46.02
J196	1126225	10046578.15	3288	11.87	3396.22	46.89
J198	1126452	10046572.14	3290	11.87	3396.22	46.02
J20	1124936	10039498.35	3260	11.87	3380.8	52.34
J200	1126153	10046838.4	3286	11.87	3396.29	47.79
J202	1126401	10046869.99	3290	11.87	3396.28	46.05
J204	1125110	10047063.06	3250	11.87	3397.17	63.77
J206	1125853	10047422.59	3272	11.87	3396.43	53.92
J208	1125600	10047196.94	3268	11.87	3396.51	55.68
J210	1125865	10047045.01	3275	11.87	3396.42	52.61
J212	1126130	10047146.03	3284	11.87	3396.29	48.66
J214	1126359	10047149.04	3290	11.87	3396.29	46.05
J216	1126359	10047412.29	3285	11.87	3396.32	48.24
J218	1126130	10047418.31	3278	11.87	3396.33	51.27
J22	1124948	10039508.88	3260	11.87	3380.81	52.35
J220	1125105	10047916.83	3205	11.87	3398.08	83.66
J222	1125105	10047957.44	3205	11.87	3398.08	83.66
J224	1124995	10047916.83	3197	11.87	3398.05	87.12
J226	1124010	10045974.98	3250	11.87	3392.89	61.91
J228	1123938	10045852.01	3250	11.87	3392.29	61.65
J230	1123804	10045935.25	3245	11.87	3391.61	63.53
J232	1123645	10045276.06	3242	11.87	3386.81	62.75
J234	1124172	10045197.42	3230	11.87	3385.95	67.57
J236	1123445	10045194.39	3248	11.87	3387.18	60.31
J238	1123391	10044873.79	3240	11.87	3387.13	63.75
J24	1124612	10039537.47	3227	11.87	3379.31	66
J240	1124671	10045070.39	3230	11.87	3387.78	68.37
J242	1124653	10044538.06	3220	11.87	3386.4	72.1
J244	1124859	10044541.09	3218	11.87	3386.28	72.92

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J246	1124644	10044290.05	3218	11.87	3386.26	72.91
J248	1123357	10044196.31	3234	11.87	3385.79	65.77
J250	1123990	10044106.6	3214	11.87	3380.56	72.17
J252	1123859	10043966.22	3210	11.87	3380.11	73.71
J254	1124683	10044130.4	3212	11.87	3383.44	74.28
J256	1124684	10043431.87	3205	11.87	3384	77.56
J258	1124684	10043249.28	3203	11.87	3383.89	78.38
J26	1124424	10039560.03	3211	11.87	3379.2	72.88
J260	1124882	10043093.32	3198	11.87	3383.69	80.46
J262	1124654	10042762.38	3194	11.87	3383.64	82.17
J264	1124262	10042773.79	3190	11.87	3383.53	83.86
J266	1123934	10042773.79	3190	11.87	3383.28	83.75
J268	1123637	10042773.79	3190	11.87	3383.12	83.68
J270	1123611	10042979.2	3200	11.87	3383.08	79.33
J272	1123620	10043323.58	3207	11.87	3383.06	76.29
J274	1123621	10043426.53	3212	11.87	3382.61	73.93
J276	1123382	10043327.32	3221	11.87	3382.04	69.78
J278	1123166	10043499.53	3225	11.87	3384.26	69.01
J28	1124400	10039806.74	3203	11.87	3379.01	76.27
J280	1123977	10043482.69	3198	11.87	3383.62	80.43
J282	1124279	10043484.56	3198	11.87	3383.62	80.43
J284	1124647	10042155.56	3188	11.87	3381.48	83.83
J286	1124341	10041745.28	3188	11.87	3381.01	83.63
J288	1124622	10041107.8	3188	11.87	3377.21	81.98
J290	1124622	10040543.11	3195	11.87	3377.98	79.29
J292	1124828	10040538.91	3198	11.87	3377.86	77.93
J294	1124725	10040253.41	3195	11.87	3378.75	79.62
J296	1124918	10040249.22	3203	11.87	3378.64	76.1
J298	1124145	10041286.23	3188	11.87	3373.34	80.31
J30	1124835	10039531.45	3244	11.87	3380.74	59.25
J300	1124043	10041114.1	3188	11.87	3373.38	80.33
J302	1124040	10040784.52	3189	11.87	3373.56	79.97
J304	1124196	10040784.52	3188	11.87	3373.54	80.39
J306	1123769	10040790.82	3189	11.87	3373.77	80.06
J308	1123923	10040784.52	3189	11.87	3373.79	80.07
J310	1124727	10039992.28	3198	11.87	3379.83	78.79
J312	1124757	10039992.28	3198	11.87	3379.85	78.8
J314	1124253	10039998.58	3195	11.87	3379.69	80.02

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J316	1123914	10040004.87	3193	11.87	3378.85	80.53
J318	1123887	10039437.56	3210	11.87	3380.04	73.68
J32	1125376	10039940.89	3260	11.87	3380.95	52.41
J320	1123307	10040008.87	3190	11.87	3377.88	81.41
J322	1122290	10040158.62	3030	11.87	3375.93	149.89
J324	1122840	10040395.83	3184	11.87	3376.31	83.33
J326	1122999	10040261.48	3186	11.87	3374.49	81.67
J328	1123180	10040549.08	3182	11.87	3374.5	83.41
J330	1123008	10040618.35	3178	11.87	3374.5	85.14
J332	1123230	10040679.23	3182	11.87	3374.52	83.42
J334	1123283	10040817.78	3179	11.87	3374.53	84.72
J336	1123546	10041082.28	3185	11.87	3372.42	81.21
J338	1122894	10040872.36	3178	11.87	3374.78	85.26
J340	1122440	10040465.36	3169	11.87	3374.47	89.03
J342	1122623	10040640.98	3178	11.87	3374.5	85.14
J344	1122772	10040780.43	3178	11.87	3375.03	85.37
J346	1122742	10040713.3	3178	11.87	3375.09	85.4
J350	1122730	10040740.04	3178	11.87	3375.04	85.38
J352	1122722	10040733.27	3178	11.87	3375.08	85.39
J354	1122884	10041060.03	3183	11.87	3374.62	83.03
J356	1123612	10041382.77	3188	11.87	3374.22	80.69
J358	1122415	10041101.24	3192	11.87	3374.5	79.08
J36	1125567	10040442.66	3255	11.87	3381.35	54.75
J360	1122206	10041099.19	3192	11.87	3374.49	79.08
J364	1122181	10040940.96	3189	11.87	3373.24	79.83
J366	1122148	10040940.96	3189	11.87	3373.22	79.82
J368	1122218	10040940.96	3188	11.87	3373.26	80.28
J370	1122183	10041179.33	3194	11.87	3373.24	77.66
J372	1122866	10041748.55	3195	11.87	3371.99	76.69
J374	1123108	10041532.78	3188	11.87	3370.04	78.88
J376	1123750	10041802.49	3188	11.87	3371.67	79.58
J378	1122926	10042197.86	3198	11.87	3378.36	78.15
J38	1125085	10040522.38	3214	11.87	3380.73	72.24
J380	1123041	10043166.82	3222	11.87	3383.05	69.78
J382	1123039	10043368.2	3226	11.87	3383.02	68.04
J384	1123031	10043047.63	3222	11.87	3382.53	69.56
J386	1122922	10043501.52	3228	11.87	3384.57	67.84
J388	1123012	10044175.36	3237	11.87	3385.27	64.24

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J390	1123018	10044629.5	3245	11.87	3383.33	59.94
J392	1123078	10045201.71	3250	11.87	3388.11	59.84
J394	1123076	10045131.84	3248	11.87	3388.07	60.69
J396	1123078	10045460.63	3252	11.87	3387.95	58.91
J398	1122934	10045989.69	3220	11.87	3371.95	65.84
J40	1125639	10040959.04	3255	11.87	3381.8	54.94
J400	1122775	10045991.74	3220	11.87	3372.63	66.14
J402	1122775	10046090.38	3205	11.87	3372.2	72.45
J404	1122471	10045806.8	3208	11.87	3388.69	78.29
J406	1122465	10046020.51	3204	11.87	3388.91	80.12
J408	1122469	10045656.79	3214	11.87	3388.59	75.65
J410	1122208	10045662.95	3212	11.87	3388.55	76.5
J412	1122586	10045406.08	3233	11.87	3384.86	65.8
J414	1122796	10045445.13	3245	11.87	3358.16	49.03
J416	1122323	10045307.44	3222	11.87	3381.66	69.18
J418	1122321	10045426.63	3220	11.87	3381.58	70.01
J42	1125221	10040817.64	3221	11.87	3381.47	69.53
J420	1122389	10045019.75	3209	11.87	3381.62	74.8
J422	1122884	10045013.59	3238	11.87	3380.95	61.94
J424	1122389	10044891.58	3209	11.87	3381.62	74.8
J426	1122376	10044716.9	3215	11.87	3381.76	72.26
J428	1122880	10044706.63	3242	11.87	3381.46	60.43
J430	1122384	10044188.21	3240	11.87	3382.44	61.72
J432	1122685	10044186.15	3240	11.87	3383.97	62.38
J434	1122742	10043462.38	3232	11.87	3382.98	65.42
J436	1122197	10043462.38	3228	11.87	3380.52	66.09
J438	1122208	10044181.61	3236	11.87	3380.98	62.82
J44	1125638	10041201.73	3255	11.87	3382.02	55.04
J440	1121938	10044181.61	3240	11.87	3380.2	60.75
J442	1121938	10043550.74	3234	11.87	3379.99	63.26
J444	1122876	10043237.38	3224	11.87	3382.98	68.88
J446	1122870	10043167.51	3223	11.87	3383	69.33
J448	1122870	10042869.54	3222	11.87	3380.68	68.76
J450	1122870	10042832.55	3222	11.87	3380.42	68.64
J452	1122578	10042832.55	3220	11.87	3379.42	69.07
J454	1122578	10043042.16	3224	11.87	3379.38	67.33
J456	1122333	10042838.71	3220	11.87	3379.05	68.92
J458	1122833	10042691.99	3221	11.87	3380.33	69.04

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J46	1125334	10041215.27	3220	11.87	3381.84	70.13
J460	1122321	10042092.86	3208	11.87	3373.94	71.9
J462	1122197	10042443.34	3216	11.87	3374.58	68.71
J464	1121807	10042513.21	3224	11.87	3374.64	65.27
J466	1121782	10042455.06	3224	11.87	3374.43	65.18
J468	1121773	10042101.51	3218	11.87	3373.84	67.53
J470	1121276	10042124.21	3222	11.87	3373.33	65.57
J472	1122185	10042098.85	3208	11.87	3373.84	71.86
J474	1121872	10041866.64	3209	11.87	3373.11	71.11
J476	1121843	10041416.6	3202	11.87	3373.18	74.17
J478	1121573	10040953.58	3197	11.87	3373.08	76.29
J48	1125796	10041656.67	3255	11.87	3382.51	55.25
J480	1121534	10041237.16	3208	11.87	3373.06	71.52
J482	1121530	10040953.58	3195	11.87	3373.07	77.16
J484	1121380	10040935.08	3195	11.87	3373.07	77.16
J486	1121376	10041089.2	3205	11.87	3373.06	72.82
J488	1121080	10041046.05	3195	11.87	3373.07	77.16
J490	1120796	10041218.67	3195	11.87	3373.07	77.16
J492	1121080	10041409.78	3215	11.87	3373.14	68.52
J498	1121390	10041422.11	3216	11.87	3373.16	68.1
J50	1125375	10041665.7	3215	11.87	3380.71	71.8
J502	1121107	10041773	3220	11.87	3373.18	66.37
J504	1121152	10042114.49	3220	11.87	3373.28	66.42
J508	1120998	10042132.01	3200	11.87	3373.17	75.03
J510	1121405	10043101.18	3215	11.87	3380.74	71.82
J512	1121401	10043516.28	3225	11.87	3380.99	67.59
J514	1121674	10043531.31	3228	11.87	3379.83	65.79
J516	1121668	10043862.16	3234	11.87	3379.88	63.21
J518	1126598	10045335.4	3307	11.87	3388.26	35.21
J52	1125329	10041667.2	3213	11.87	3380.49	72.57
J520	1126586	10044363.41	3315	11.87	3388.14	31.69
J522	1126615	10044078.7	3320	11.87	3387.95	29.44
J524	1126352	10044090.03	3300	11.87	3387.86	38.07
J526	1126512	10043329.84	3310	11.87	3387.93	33.77
J528	1124646	10044859.56	3224	11.87	3387.87	71.01
J530	1123983	10043963.76	3210	11.87	3380.65	73.94
J532	1121045	10041643.81	3220	11.87	3373.16	66.36
J534	1121276	10042111.69	3222	11.87	3373.33	65.57

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J536	1122328	10040934.14	3188	11.87	3373.35	80.31
J54	1125328	10041537.83	3216	11.87	3380.41	71.24
J540	1123217	10044006.96	3230	11.87	3384.26	66.84
J542	1123718	10043708.89	3210	11.87	3385.75	76.15
J544	1122921	10044178.35	3238	11.87	3385.15	63.76
J546	1122911	10043167.34	3223	11.87	3383.05	69.35
J548	1122836	10040607.49	3178	11.87	3375.59	85.62
J550	1121429	10042126	3224	11.87	3373.45	64.76
J552	1121430	10042108.54	3224	11.87	3373.45	64.76
J554	1124114	10047573.47	3180	11.87	3396.96	94.01
J556	1123927	10047480.41	3182	11.87	3395.19	92.38
J558	1123608	10046855.61	3178	11.87	3392.71	93.03
J56	1125149	10041667.2	3203	11.87	3380.38	76.86
J560	1123546	10046620.76	3188	11.87	3392.37	88.55
J562	1123276	10046629.62	3188	11.87	3392.01	88.4
J564	1123001	10046638.48	3194	11.87	3390.84	85.29
J566	1122690	10046638.48	3194	11.87	3390.34	85.07
J568	1123546	10046478.96	3195	11.87	3392.32	85.5
J570	1123542	10046363.75	3198	11.87	3392.3	84.19
J574	1122965	10047746.28	3090	11.87	3235.04	62.84
J576	1122757	10047990	3078	11.87	3234.89	67.98
J578	1122699	10047932.39	3082	11.87	3234.87	66.24
J58	1125227	10041771	3200	11.87	3380.89	78.38
J580	1123431	10048198.26	3110	11.87	3234.9	54.12
J582	1123719	10046485.61	3205	11.87	3392.32	81.16
J584	1123919	10040419.38	3193	11.87	3375.55	79.1
J586	1124622	10040823.62	3190	11.87	3377.38	81.19
J588	1124667	10041752.7	3190	11.87	3381.45	82.96
J590	1124651	10042483.64	3190	11.87	3381.94	83.17
J592	1124676	10043672.36	3208	11.87	3383.6	76.09
J594	1124680	10043916.86	3210	11.87	3383.47	75.16
J596	1123917	10040224.41	3192	11.87	3376.93	80.13
J598	1123921	10040593.44	3190	11.87	3374.58	79.98
J60	1125153	10041772.51	3200	11.87	3380.85	78.36
J600	1123961	10039404.97	3210	11.87	3380.05	73.68
J602	1123916	10038690.63	3170	11.87	3380.58	91.24
J604	1123277	10038802.09	3200	11.87	3380.43	78.18
J606	1125614	10040659.62	3255	11.87	3381.55	54.83

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J608	1123041	10046371.78	3196	11.87	3390.33	84.2
J610	1122686	10046974.97	3192	11.87	3390.54	86.03
J612	1123831	10044868.8	3240	11.87	3387.38	63.86
J614	1123362	10044493.56	3236	11.87	3386.34	65.14
J616	1122375	10044420.94	3225	11.87	3382.1	68.07
J618	1121393	10043917.14	3230	11.87	3381.08	65.46
J62	1125227	10042052.31	3195	11.87	3382.27	81.14
J620	1121763	10044510.85	3220	11.87	3381.27	69.88
J622	1121867	10042801.6	3220	11.87	3375.95	67.57
J624	1122344	10043245.51	3222	11.87	3380.46	68.66
J626	1122184	10041674.73	3200	11.87	3373.52	75.18
J628	1122419	10041364.82	3193	11.87	3373.58	78.24
J630	1123200	10041386.25	3187	11.87	3374.28	81.15
J632	1123216	10041138.59	3184	11.87	3374.64	82.6
J634	1122841	10040180.52	3187	11.87	3377.18	82.41
J636	1123632	10040006.73	3192	11.87	3378.36	80.75
J638	1124247	10039627.33	3205	11.87	3379.94	75.8
J64	1125882	10042043.75	3255	11.87	3382.91	55.42
J640	1123272	10041808.29	3192	11.87	3371.74	77.88
J642	1125480	10043890.78	3222	11.87	3386.03	71.07
J644	1123630	10042455.51	3193	11.87	3380.64	81.3
J646	1123015	10042459.81	3196	11.87	3378.55	79.1
J648	1123944	10043323.67	3200	11.87	3383.05	79.32
J650	1124266	10043316.47	3194	11.87	3383.53	82.12
J652	1123418	10047309.59	3135	11.87	3393.61	112.05
J654	1123431	10047915.46	3100	11.87	3234.94	58.47
J656	1125436	10040501.92	3230	11.87	3380.95	65.4
J658	1123772	10040005.81	3192	11.87	3378.6	80.85
J66	1125912	10042284.87	3254	11.87	3383.22	55.99
J660	1122417	10041206.64	3193	11.87	3374.05	78.45
J662	1121816	10042659.51	3222	11.87	3375.18	66.37
J664	1121601	10042286.19	3224	11.87	3373.7	64.87
J666	1121217	10043510.76	3223	11.87	3381	68.46
J668	1121876	10043168.63	3224	11.87	3377.57	66.54
J670	1123316	10042457.7	3193	11.87	3379.2	80.68
J672	1124092	10042773.79	3190	11.87	3383.39	83.8
J674	1123980	10043718.54	3204	11.87	3381.78	77.03
J676	1123903	10045203.74	3235	11.87	3386.11	65.48

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J678	1123443	10048158.37	3110	11.87	3234.9	54.12
J68	1125673	10042286.37	3228	11.87	3376.44	64.32
J680	1123381	10048224.98	3110	11.87	3234.9	54.12
J682	1123063	10048169.28	3100	11.87	3234.89	58.45
J684	1122895	10047897.93	3086	11.87	3234.96	64.54
J688	1123856	10047023.27	3180	11.87	3393.84	92.66
J690	1122627	10045016.79	3218	11.87	3381.11	70.67
J692	1121938	10043885.16	3238	11.87	3380.04	61.54
J694	1122203	10043832.47	3238	11.87	3380.66	61.82
J696	1122682	10043745.94	3238	11.87	3383.39	63
J698	1125019	10042053.89	3193	11.87	3382.21	81.98
J70	1125673	10042387.16	3228	11.87	3376.38	64.29
J700	1125011	10041753.69	3192	11.87	3382.2	82.41
J702	1124652	10042638.28	3192	11.87	3382.65	82.61
J704	1124649	10042317.38	3189	11.87	3381.57	83.44
J706	1125145	10043428.94	3210	11.87	3384.38	75.56
J708	1125467	10043244.32	3216	11.87	3384.27	72.91
J710	1124675	10043553.39	3206	11.87	3383.74	77.01
J712	1123456	10048115.41	3110	11.87	3234.91	54.12
J714	1123332	10048224.98	3110	11.87	3234.9	54.12
J72	1125458	10042299.91	3214	11.87	3372.67	68.75
J720	1124206	10047607.9	3180	11.87	3397.89	94.41
J722	1126592	10044849.4	3307	11.87	3388.35	35.25
J724	1125103	10045483.78	3250	11.87	3395.82	63.18
J726	1122233	10047037.76	3065	11.87	3234.63	73.5
J728	1121872	10047176.64	3060	11.87	3234.63	75.67
J730	1121327	10045288.28	3045	11.87	3234.5	82.11
J732	1120850	10044576.25	3015	11.87	3234.49	95.1
J734	1126122	10043419.85	3248	11.87	3385.38	59.53
J736	1125637	10041358.03	3257	11.87	3382.18	54.24
J738	1123723	10044190.25	3224	11.87	3385.76	70.09
J74	1125458	10042412.74	3214	11.87	3372.42	68.64
J740	1125109	10047291.81	3249	11.87	3397.44	64.32
J742	1125248	10039960.93	3260	11.87	3380.43	52.18
J744	1125221	10049016.34	3197	11.87	3398.29	87.22
J746	1125860	10048967.73	3223	11.87	3398.48	76.04
J748	1125770	10047901.75	3247	11.87	3398.97	65.85
J750	1124993	10050431.92	3220	11.87	3398.08	77.16

LaVerkin Pond HGL @ 3400 System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J752	1124949	10050388.73	3218	11.87	3398.08	78.03
J754	1123450	10048727.78	3085	11.87	3397.8	135.54
J756	1123881	10048778.13	3111	11.87	3397.76	124.25
J758	1123501	10048584.99	3113	11.87	3397.82	123.41
J76	1125256	10042430.79	3205	11.87	3372.29	72.49
J760	1123668	10048341.5	3130	11.87	3397.83	116.05
J762	1123897	10038697	3170	11.87	3380.52	91.22
J78	1125242	10042302.92	3205	11.87	3372.14	72.42
J80	1125361	10042301.42	3209	11.87	3372.21	70.72
J82	1125361	10042197.62	3210	11.87	3372.15	70.26
J84	1125935	10042714.17	3255	11.87	3383.84	55.83
J86	1126252	10042705.15	3287	11.87	3383.83	41.96
J88	1125935	10042756.43	3255	11.87	3383.94	55.87
J90	1125457	10042760.95	3225	11.87	3378.34	66.44
J92	1125457	10042860.23	3218	11.87	3378.28	69.45
J94	1125454	10042664.67	3221	11.87	3377.89	67.98
J96	1125323	10042667.68	3209	11.87	3377.81	73.14
J98	1125453	10042630.07	3217	11.87	3377.86	69.7
V8002_NU	1121346	10045216.01	3043	11.87	3234.49	82.97
V8002_ND	1121367	10045145.96	3043	11.87	3234.49	82.97
V8004_NU	1123222	10047426.2	3120	11.87	3393.06	118.32
V8004_ND	1123060	10047523.21	3120	11.87	3235.39	50
V8010_NU	1122217	10046990.55	3065	11.87	3234.62	73.5
V8010_ND	1121854	10046290.76	3065	11.87	3234.62	73.5
J828	1122724	10046377.25	3195.06	11.87	3389.44	84.22
J818	1122474	10045568.73	3227.64		3388.54	69.72
J820	1123869	10045533.78	3245.99		3391.06	62.86
J822	1124182	10045517.4	3242		3391.06	64.59
J824	1123316	10045546.89	3252		3389.33	59.51
J826	1123305	10045198.34	3249.3		3389.15	60.6
J832	1124304	10046105.17	3250.91		3394.11	62.05
J838	1125215	10049058.1	3211.79		3398.08	80.72
J834	1122944	10045557.14	3241.24		3388.53	63.82

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J100	1125999.3	10043006	3254	9.17	3390.34	59.08
J102	1125788.6	10043009	3236	9.17	3388.79	66.2
J104	1125787.1	10042941	3240	9.17	3388.76	64.46
J106	1125744.9	10043014	3234	9.17	3388.66	67.01
J108	1125746.4	10043169	3238	9.17	3388.66	65.28
J110	1125653.1	10043014	3227	9.17	3388.62	70.03
J112	1126111	10043156	3255	9.17	3390.57	58.74
J114	1126189.2	10043213	3260	9.17	3390.2	56.42
J116	1126077.9	10043285	3250	9.17	3390.75	60.99
J118	1125925.8	10043283	3244	9.17	3390.73	63.58
J120	1126005.6	10043423	3248	9.17	3390.95	61.94
J122	1125841.3	10043421	3242	9.17	3390.79	64.47
J124	1125842.9	10043313	3239	9.17	3390.75	65.75
J126	1125666.8	10043422	3228	9.17	3390.64	70.47
J128	1125668.3	10043677	3232	9.17	3389.92	68.43
J130	1125668.3	10043732	3233	9.17	3389.9	67.98
J132	1125164.1	10043574	3220	9.17	3389.7	73.53
J134	1125471.1	10043427	3218	9.17	3390.51	74.75
J136	1125463.6	10043063	3215	9.17	3390.19	75.91
J138	1125894	10043888	3247	9.17	3391.9	62.79
J14	1123884.3	10038702	3170	9.17	3387.92	94.43
J140	1125067.4	10043894	3220	9.17	3391.2	74.18
J142	1125820	10044147	3253	9.17	3392.48	60.44
J144	1125157.7	10044156	3229	9.17	3392.24	70.73
J146	1125772	10044440	3249	9.17	3393.1	62.44
J150	1125760.2	10044468	3249	9.17	3393.21	62.49
J152	1125070.4	10044495	3230	9.17	3392.95	70.61
J154	1125604.7	10044857	3250	9.17	3394.09	62.43
J156	1124669.9	10044862	3224	9.17	3392.51	73.02
J158	1125083.8	10044940	3234	9.17	3394.45	69.52
J16	1122873.1	10038869	3220	9.17	3387.89	72.75
J160	1125559.4	10044955	3250	9.17	3394.49	62.61
J162	1125461.5	10045164	3250	9.17	3395.26	62.94
J164	1125082.3	10045119	3237	9.17	3395.22	68.56
J166	1125311.2	10045480	3248	9.17	3396.4	64.3
J170	1125095.7	10046118	3253	9.17	3397.62	62.67
J174	1125098.7	10046332	3255	9.17	3397.76	61.86
J176	1125100.3	10046582	3252	9.17	3397.92	63.23

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J178	1125446.5	10046575	3264	9.17	3397.91	58.02
J18	1124240	10039216	3210	9.17	3387.77	77.03
J180	1125708.8	10046321	3268	9.17	3397.65	56.18
J182	1125708.8	10046551	3274	9.17	3397.65	53.58
J184	1125954.1	10046316	3277	9.17	3397.64	52.27
J186	1125958.6	10046567	3282	9.17	3397.64	50.1
J188	1126222	10046313	3287	9.17	3397.64	47.94
J190	1125106.7	10046822	3249	9.17	3398.07	64.59
J192	1125604.9	10046828	3267	9.17	3397.83	56.69
J194	1126476.6	10046310	3290	9.17	3397.64	46.64
J196	1126225.2	10046578	3288	9.17	3397.65	47.51
J198	1126452.5	10046572	3290	9.17	3397.65	46.64
J20	1124935.7	10039498	3260	9.17	3388.12	55.52
J200	1126153	10046838	3286	9.17	3397.69	48.4
J202	1126401.3	10046870	3290	9.17	3397.69	46.66
J204	1125109.7	10047063	3250	9.17	3398.24	64.23
J206	1125853.2	10047423	3272	9.17	3397.78	54.5
J208	1125600.4	10047197	3268	9.17	3397.83	56.26
J210	1125865.3	10047045	3275	9.17	3397.78	53.2
J212	1126130.5	10047146	3284	9.17	3397.69	49.26
J214	1126359.2	10047149	3290	9.17	3397.69	46.66
J216	1126359.2	10047412	3285	9.17	3397.71	48.84
J218	1126130.5	10047418	3278	9.17	3397.72	51.87
J22	1124947.8	10039509	3260	9.17	3388.13	55.52
J220	1125104.9	10047917	3205	9.17	3398.8	83.97
J222	1125104.9	10047957	3205	9.17	3398.81	83.98
J224	1124995	10047917	3197	9.17	3398.79	87.43
J226	1124010.1	10045975	3250	9.17	3395.59	63.08
J228	1123938.1	10045852	3250	9.17	3395.22	62.92
J230	1123803.7	10045935	3245	9.17	3394.8	64.91
J232	1123645.1	10045276	3242	9.17	3391.83	64.92
J234	1124171.6	10045197	3230	9.17	3391.3	69.89
J236	1123445.4	10045194	3248	9.17	3392.06	62.42
J238	1123390.9	10044874	3240	9.17	3392.03	65.87
J24	1124612.1	10039537	3227	9.17	3387.2	69.42
J240	1124671	10045070	3230	9.17	3392.43	70.38
J242	1124652.8	10044538	3220	9.17	3391.58	74.35
J244	1124858.6	10044541	3218	9.17	3391.5	75.18

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J246	1124643.7	10044290	3218	9.17	3391.49	75.17
J248	1123356.6	10044196	3234	9.17	3391.2	68.11
J250	1123989.9	10044107	3214	9.17	3387.96	75.38
J252	1123858.9	10043966	3210	9.17	3387.68	76.99
J254	1124682.6	10044130	3212	9.17	3389.75	77.02
J256	1124684	10043432	3205	9.17	3390.09	80.2
J258	1124684	10043249	3203	9.17	3390.03	81.04
J26	1124424	10039560	3211	9.17	3387.13	76.32
J260	1124881.9	10043093	3198	9.17	3389.9	83.15
J262	1124653.5	10042762	3194	9.17	3389.87	84.87
J264	1124261.5	10042774	3190	9.17	3389.8	86.57
J266	1123934.2	10042774	3190	9.17	3389.65	86.51
J268	1123637.4	10042774	3190	9.17	3389.55	86.47
J270	1123610.7	10042979	3200	9.17	3389.52	82.12
J272	1123619.5	10043324	3207	9.17	3389.51	79.08
J274	1123621.4	10043427	3212	9.17	3389.24	76.8
J276	1123381.7	10043327	3221	9.17	3388.88	72.74
J278	1123166.1	10043500	3225	9.17	3390.25	71.6
J28	1124399.9	10039807	3203	9.17	3387.02	79.73
J280	1123977.2	10043483	3198	9.17	3389.86	83.13
J282	1124278.7	10043485	3198	9.17	3389.86	83.13
J284	1124647.5	10042156	3188	9.17	3388.53	86.89
J286	1124341.1	10041745	3188	9.17	3388.25	86.77
J288	1124622.2	10041108	3188	9.17	3385.9	85.75
J290	1124622.2	10040543	3195	9.17	3386.38	82.92
J292	1124828	10040539	3198	9.17	3386.3	81.59
J294	1124725.1	10040253	3195	9.17	3386.86	83.13
J296	1124918.3	10040249	3203	9.17	3386.78	79.63
J298	1124145.4	10041286	3188	9.17	3383.5	84.71
J30	1124834.9	10039531	3244	9.17	3388.08	62.43
J300	1124042.5	10041114	3188	9.17	3383.53	84.72
J302	1124040.4	10040785	3189	9.17	3383.64	84.34
J304	1124195.8	10040785	3188	9.17	3383.62	84.76
J306	1123769.5	10040791	3189	9.17	3383.77	84.39
J308	1123922.8	10040785	3189	9.17	3383.78	84.4
J310	1124727.2	10039992	3198	9.17	3387.52	82.12
J312	1124756.6	10039992	3198	9.17	3387.53	82.12
J314	1124252.5	10039999	3195	9.17	3387.43	83.38

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J316	1123914.4	10040005	3193	9.17	3386.91	84.02
J318	1123886.8	10039438	3210	9.17	3387.65	76.98
J32	1125375.6	10039941	3260	9.17	3388.22	55.56
J320	1123306.8	10040009	3190	9.17	3386.31	85.06
J322	1122289.5	10040159	3030	9.17	3385.1	153.87
J324	1122839.8	10040396	3184	9.17	3385.34	87.24
J326	1122999.4	10040261	3186	9.17	3384.22	85.89
J328	1123180.1	10040549	3182	9.17	3384.22	87.62
J330	1123007.8	10040618	3178	9.17	3384.22	89.35
J332	1123230.5	10040679	3182	9.17	3384.23	87.63
J334	1123283	10040818	3179	9.17	3384.24	88.93
J336	1123545.5	10041082	3185	9.17	3382.93	85.76
J338	1122894.4	10040872	3178	9.17	3384.39	89.43
J340	1122440.4	10040465	3169	9.17	3384.2	93.25
J342	1122623.3	10040641	3178	9.17	3384.22	89.36
J344	1122772.2	10040780	3178	9.17	3384.55	89.5
J346	1122741.5	10040713	3178	9.17	3384.58	89.51
J350	1122729.7	10040740	3178	9.17	3384.56	89.5
J352	1122722.3	10040733	3178	9.17	3384.58	89.51
J354	1122884.2	10041060	3183	9.17	3384.29	87.22
J356	1123612	10041383	3188	9.17	3384.05	84.95
J358	1122415.4	10041101	3192	9.17	3384.22	83.29
J36	1125567.1	10040443	3255	9.17	3388.47	57.83
J360	1122205.7	10041099	3192	9.17	3384.22	83.29
J364	1122181.1	10040941	3189	9.17	3383.44	84.25
J366	1122148.2	10040941	3189	9.17	3383.43	84.24
J368	1122218.1	10040941	3188	9.17	3383.45	84.69
J370	1122183.1	10041179	3194	9.17	3383.44	82.08
J372	1122865.7	10041749	3195	9.17	3382.67	81.32
J374	1123108.3	10041533	3188	9.17	3381.46	83.82
J376	1123749.9	10041802	3188	9.17	3382.47	84.26
J378	1122925.9	10042198	3198	9.17	3386.6	81.72
J38	1125085.4	10040522	3214	9.17	3388.08	75.43
J380	1123041.2	10043167	3222	9.17	3389.5	72.58
J382	1123039.2	10043368	3226	9.17	3389.49	70.84
J384	1123030.9	10043048	3222	9.17	3389.18	72.44
J386	1122922.2	10043502	3228	9.17	3390.45	70.39
J388	1123012.2	10044175	3237	9.17	3390.88	66.67

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J390	1123018.4	10044630	3245	9.17	3389.67	62.69
J392	1123078	10045202	3250	9.17	3392.63	61.8
J394	1123075.9	10045132	3248	9.17	3392.61	62.66
J396	1123078	10045461	3252	9.17	3392.54	60.89
J398	1122933.5	10045990	3220	9.17	3382.62	70.46
J40	1125639.4	10040959	3255	9.17	3388.74	57.95
J400	1122775.2	10045992	3220	9.17	3383.04	70.64
J402	1122775.2	10046090	3205	9.17	3382.77	77.03
J404	1122470.9	10045807	3208	9.17	3392.99	80.16
J406	1122464.8	10046021	3204	9.17	3393.13	81.95
J408	1122468.9	10045657	3214	9.17	3392.93	77.53
J410	1122207.8	10045663	3212	9.17	3392.9	78.39
J412	1122586.1	10045406	3233	9.17	3390.62	68.3
J414	1122795.8	10045445	3245	9.17	3374.07	55.93
J416	1122322.9	10045307	3222	9.17	3388.64	72.21
J418	1122320.8	10045427	3220	9.17	3388.6	73.05
J42	1125221	10040818	3221	9.17	3388.54	72.59
J420	1122388.7	10045020	3209	9.17	3388.62	77.83
J422	1122884.2	10045014	3238	9.17	3388.2	65.08
J424	1122388.6	10044892	3209	9.17	3388.62	77.83
J426	1122376.3	10044717	3215	9.17	3388.7	75.27
J428	1122880	10044707	3242	9.17	3388.52	63.49
J430	1122384.4	10044188	3240	9.17	3389.13	64.62
J432	1122684.6	10044186	3240	9.17	3390.07	65.03
J434	1122742.1	10043462	3232	9.17	3389.46	68.23
J436	1122197.2	10043462	3228	9.17	3387.94	69.3
J438	1122207.5	10044182	3236	9.17	3388.23	65.96
J44	1125638	10041202	3255	9.17	3388.88	58.01
J440	1121938.2	10044182	3240	9.17	3387.74	64.01
J442	1121938.2	10043551	3234	9.17	3387.61	66.56
J444	1122875.7	10043237	3224	9.17	3389.46	71.69
J446	1122869.5	10043168	3223	9.17	3389.47	72.13
J448	1122869.5	10042870	3222	9.17	3388.04	71.95
J450	1122869.5	10042833	3222	9.17	3387.88	71.88
J452	1122577.6	10042833	3220	9.17	3387.26	72.47
J454	1122577.6	10043042	3224	9.17	3387.24	70.73
J456	1122332.9	10042839	3220	9.17	3387.03	72.37
J458	1122832.5	10042692	3221	9.17	3387.82	72.28

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J46	1125333.9	10041215	3220	9.17	3388.77	73.13
J460	1122321.2	10042093	3208	9.17	3383.87	76.2
J462	1122197.2	10042443	3216	9.17	3384.26	72.91
J464	1121806.6	10042513	3224	9.17	3384.3	69.46
J466	1121781.6	10042455	3224	9.17	3384.17	69.4
J468	1121773.3	10042102	3218	9.17	3383.81	71.84
J470	1121275.8	10042124	3222	9.17	3383.49	69.98
J472	1122184.8	10042099	3208	9.17	3383.8	76.18
J474	1121872.3	10041867	3209	9.17	3383.36	75.55
J476	1121843.5	10041417	3202	9.17	3383.4	78.6
J478	1121573.4	10040954	3197	9.17	3383.33	80.74
J48	1125796.1	10041657	3255	9.17	3389.18	58.14
J480	1121534.4	10041237	3208	9.17	3383.33	75.97
J482	1121530.2	10040954	3195	9.17	3383.33	81.6
J484	1121380.2	10040935	3195	9.17	3383.33	81.6
J486	1121376	10041089	3205	9.17	3383.33	77.27
J488	1121080	10041046	3195	9.17	3383.33	81.61
J490	1120796.2	10041219	3195	9.17	3383.33	81.6
J492	1121080	10041410	3215	9.17	3383.37	72.96
J498	1121390.4	10041422	3216	9.17	3383.39	72.53
J50	1125374.5	10041666	3215	9.17	3388.07	74.99
J502	1121106.7	10041773	3220	9.17	3383.4	70.8
J504	1121151.6	10042114	3220	9.17	3383.46	70.83
J508	1120997.8	10042132	3200	9.17	3383.39	79.46
J510	1121404.9	10043101	3215	9.17	3388.07	74.99
J512	1121400.8	10043516	3225	9.17	3388.23	70.73
J514	1121674.3	10043531	3228	9.17	3387.51	69.11
J516	1121668.1	10043862	3234	9.17	3387.54	66.53
J518	1126598.3	10045335	3307	9.17	3392.73	37.15
J52	1125329.4	10041667	3213	9.17	3387.93	75.8
J520	1126585.9	10044363	3315	9.17	3392.66	33.65
J522	1126614.9	10044079	3320	9.17	3392.54	31.43
J524	1126475.1	10044087	3300	9.17	3392.48	40.07
J526	1126512	10043330	3310	9.17	3392.53	35.76
J528	1124645.6	10044860	3224	9.17	3392.49	73.01
J530	1123982.9	10043964	3210	9.17	3388.02	77.14
J532	1121044.8	10041644	3220	9.17	3383.39	70.79
J534	1121275.6	10042112	3222	9.17	3383.49	69.98

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J536	1122328.1	10040934	3188	9.17	3383.51	84.71
J54	1125327.9	10041538	3216	9.17	3387.88	74.47
J540	1123216.8	10044007	3230	9.17	3390.25	69.44
J542	1123717.6	10043709	3210	9.17	3391.18	78.5
J544	1122921.4	10044178	3238	9.17	3390.8	66.21
J546	1122910.7	10043167	3223	9.17	3389.5	72.15
J548	1122836.4	10040607	3178	9.17	3384.9	89.65
J550	1121429.3	10042126	3224	9.17	3383.57	69.14
J552	1121429.7	10042109	3224	9.17	3383.57	69.14
J554	1124113.5	10047573	3180	9.17	3398.11	94.51
J556	1123927.3	10047480	3182	9.17	3397.02	93.17
J558	1123608.1	10046856	3178	9.17	3395.48	94.23
J56	1125148.8	10041667	3203	9.17	3387.86	80.1
J560	1123546	10046621	3188	9.17	3395.27	89.81
J562	1123275.6	10046630	3188	9.17	3395.05	89.71
J564	1123000.7	10046638	3194	9.17	3394.32	86.8
J566	1122690.4	10046638	3194	9.17	3394.01	86.67
J568	1123546	10046479	3195	9.17	3395.24	86.76
J570	1123541.6	10046364	3198	9.17	3395.23	85.46
J572	1123541.6	10046093	3218	9.17	3235.17	62.9
J574	1122965.3	10047746	3090	9.17	3235.08	68.06
J576	1122756.9	10047990	3078	9.17	3235.07	66.32
J578	1122699.2	10047932	3082	9.17	3388.18	81.54
J58	1125227	10041771	3200	9.17	3235.09	54.2
J580	1123430.8	10048198	3110	9.17	3395.24	82.43
J582	1123719	10046486	3205	9.17	3384.87	83.14
J584	1123918.9	10040419	3193	9.17	3386	84.93
J586	1124622.2	10040824	3190	9.17	3388.52	86.02
J588	1124667	10041753	3190	9.17	3388.82	86.15
J590	1124650.8	10042484	3190	9.17	3389.85	78.8
J592	1124676.5	10043672	3208	9.17	3389.77	77.89
J594	1124679.8	10043917	3210	9.17	3385.72	83.94
J596	1123916.8	10040224	3192	9.17	3384.27	84.18
J598	1123920.7	10040593	3190	9.17	3388.15	81.52
J60	1125153.3	10041773	3200	9.17	3387.66	76.98
J600	1123960.9	10039405	3210	9.17	3387.99	94.45
J602	1123915.7	10038691	3170	9.17	3387.89	81.41
J604	1123276.7	10038802	3200	9.17	3388.58	57.88

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J606	1125613.8	10040660	3255	9.17	3394.01	85.8
J608	1123041.2	10046372	3196	9.17	3394.14	87.59
J610	1122685.5	10046975	3192	9.17	3392.18	65.94
J612	1123831	10044869	3240	9.17	3391.54	67.39
J614	1123362.1	10044494	3236	9.17	3388.91	71.02
J616	1122374.6	10044421	3225	9.17	3388.28	68.58
J618	1121393.2	10043917	3230	9.17	3389.03	84.07
J62	1125227	10042052	3195	9.17	3388.4	72.97
J620	1121762.7	10044511	3220	9.17	3385.11	71.54
J622	1121867.2	10042802	3220	9.17	3387.91	71.89
J624	1122343.9	10043246	3222	9.17	3383.61	79.56
J626	1122184	10041675	3200	9.17	3383.65	82.61
J628	1122418.5	10041365	3193	9.17	3384.08	85.4
J630	1123200.4	10041386	3187	9.17	3384.31	86.79
J632	1123215.5	10041139	3184	9.17	3385.88	86.18
J634	1122840.7	10040181	3187	9.17	3386.61	84.33
J636	1123632.3	10040007	3192	9.17	3387.59	79.12
J638	1124246.6	10039627	3205	9.17	3389.43	58.25
J64	1125882	10042044	3255	9.17	3382.51	82.55
J640	1123271.9	10041808	3192	9.17	3391.35	73.38
J642	1125480.4	10043891	3222	9.17	3388.01	84.5
J644	1123629.7	10042456	3193	9.17	3386.72	82.64
J646	1123015	10042460	3196	9.17	3389.51	82.11
J648	1123944.2	10043324	3200	9.17	3389.8	84.84
J650	1124266.5	10043316	3194	9.17	3396.04	113.11
J652	1123418.2	10047310	3135	9.17	3235.11	58.54
J654	1123431.2	10047915	3100	9.17	3388.21	68.55
J656	1125435.9	10040502	3230	9.17	3386.76	84.39
J658	1123772.5	10040006	3192	9.17	3389.62	58.76
J66	1125912	10042285	3254	9.17	3383.94	82.73
J660	1122416.7	10041207	3193	9.17	3384.64	70.47
J662	1121815.8	10042660	3222	9.17	3383.72	69.21
J664	1121600.9	10042286	3224	9.17	3388.23	71.6
J666	1121217.4	10043511	3223	9.17	3386.11	70.24
J668	1121875.6	10043169	3224	9.17	3387.12	84.11
J670	1123316.2	10042458	3193	9.17	3389.72	86.54
J672	1124092	10042774	3190	9.17	3388.72	80.04
J674	1123980	10043719	3204	9.17	3391.4	67.77

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J676	1123903.4	10045204	3235	9.17	3235.09	54.2
J678	1123442.7	10048158	3110	9.17	3385.42	68.21
J68	1125672.7	10042286	3228	9.17	3235.09	54.2
J680	1123380.6	10048225	3110	9.17	3235.08	58.53
J682	1123063.1	10048169	3100	9.17	3235.12	64.62
J684	1122895.5	10047898	3086	9.17	3396.18	93.67
J688	1123855.6	10047023	3180	9.17	3388.3	73.79
J690	1122626.7	10045017	3218	9.17	3387.64	64.84
J692	1121938.2	10043885	3238	9.17	3388.03	65.01
J694	1122202.5	10043832	3238	9.17	3389.71	65.74
J696	1122682.3	10043746	3238	9.17	3388.99	84.92
J698	1125018.8	10042054	3193	9.17	3385.38	68.19
J70	1125672.7	10042387	3228	9.17	3388.99	85.35
J700	1125011	10041754	3192	9.17	3389.26	85.47
J702	1124652.3	10042638	3192	9.17	3388.59	86.48
J704	1124649.1	10042317	3189	9.17	3390.33	78.14
J706	1125145.1	10043429	3210	9.17	3390.26	75.51
J708	1125467.3	10043244	3216	9.17	3389.93	79.7
J710	1124674.9	10043553	3206	9.17	3235.09	54.2
J712	1123455.6	10048115	3110	9.17	3235.09	54.2
J714	1123332.5	10048225	3110	9.17	3383.08	73.26
J72	1125457.5	10042300	3214	9.17	3398.69	94.76
J720	1124205.5	10047608	3180	9.17	3392.79	37.17
J722	1126592.1	10044849	3307	9.17	3397.4	63.87
J724	1125103.4	10045484	3250	9.17	3234.92	73.63
J726	1122233.4	10047038	3065	9.17	3234.92	75.79
J728	1121872.3	10047177	3060	9.17	3234.84	82.26
J730	1121326.8	10045288	3045	9.17	3234.83	95.25
J732	1120850	10044576	3015	9.17	3390.95	61.94
J734	1126122	10043420	3248	9.17	3388.98	57.19
J736	1125636.5	10041358	3257	9.17	3391.18	72.44
J738	1123723	10044190	3224	9.17	3382.93	73.2
J74	1125457.5	10042413	3214	9.17	3398.4	64.74
J740	1125109.4	10047292	3249	9.17	3387.9	55.42
J742	1125247.9	10039961	3260	9.17	3398.93	87.5
J744	1125220.9	10049016	3197	9.17	3399.05	76.28
J746	1125859.8	10048968	3223	9.17	3399.36	66.02
J748	1125769.5	10047902	3247	9.17	3398.8	77.48

Projected Worst Case Demand (2038) System Performance - (PDD)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J750	1124992.9	10050432	3220	9.17	3398.8	78.34
J752	1124948.6	10050389	3218	9.17	3398.63	135.9
J754	1123449.9	10048728	3085	9.17	3398.6	124.62
J756	1123880.9	10048778	3111	9.17	3398.64	123.77
J758	1123501.1	10048585	3113	9.17	3382.85	77.06
J76	1125255.8	10042431	3205	9.17	3398.65	116.41
J760	1123667.7	10048341	3130	9.17	3387.95	94.44
J762	1123896.5	10038697	3170	9.17	3382.75	77.02
J78	1125242.3	10042303	3205	9.17	3382.8	75.31
J80	1125361.2	10042301	3209	9.17	3382.76	74.86
J82	1125361.2	10042198	3210	9.17	3390	58.5
J84	1125934.7	10042714	3255	9.17	3390	44.63
J86	1126252.3	10042705	3287	9.17	3390.06	58.52
J88	1125934.6	10042756	3255	9.17	3386.59	70.02
J90	1125457.4	10042761	3225	9.17	3386.56	73.04
J92	1125457.4	10042860	3218	9.17	3386.31	71.63
J94	1125454.4	10042665	3221	9.17	3386.26	76.81
J96	1125323.5	10042668	3209	9.17	3386.3	73.36
J98	1125452.9	10042630	3217	9.17	3234.84	83.12
V8002_NU	1121346.3	10045216	3043	9.17	3234.84	83.12
V8002_ND	1121366.9	10045146	3043	9.17	3395.7	119.46
V8004_NU	1123221.5	10047426	3120	9.17	3235.39	50
V8004_ND	1123060.2	10047523	3120	9.17	3234.92	73.62
V8010_NU	1122217.1	10046991	3065	9.17	3234.92	73.62
V8010_ND	1121854.4	10046291	3065	9.17	3393.46	85.97

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J100	1125999.3	10043006	3254	10.59	3387.37	57.79
J102	1125788.6	10043009	3236	10.59	3385.34	64.71
J104	1125787.1	10042941	3240	10.59	3385.31	62.96
J106	1125744.9	10043014	3234	10.59	3385.16	65.5
J108	1125746.4	10043169	3238	10.59	3385.16	63.77
J110	1125653.1	10043014	3227	10.59	3385.12	68.51
J112	1126111	10043156	3255	10.59	3387.66	57.48
J114	1126189.2	10043213	3260	10.59	3387.18	55.11
J116	1126077.9	10043285	3250	10.59	3387.9	59.75
J118	1125925.8	10043283	3244	10.59	3387.88	62.34
J120	1126005.6	10043423	3248	10.59	3388.16	60.73
J122	1125841.3	10043421	3242	10.59	3387.96	63.24
J124	1125842.9	10043313	3239	10.59	3387.9	64.52
J126	1125666.8	10043422	3228	10.59	3387.76	69.22
J128	1125668.3	10043677	3232	10.59	3386.82	67.08
J130	1125668.3	10043732	3233	10.59	3386.79	66.64
J132	1125164.1	10043574	3220	10.59	3386.53	72.16
J134	1125471.1	10043427	3218	10.59	3387.59	73.48
J136	1125463.6	10043063	3215	10.59	3387.18	74.6
J138	1125894	10043888	3247	10.59	3389.41	61.71
J14	1123884.3	10038702	3170	10.59	3384.2	92.81
J140	1125067.4	10043894	3220	10.59	3388.49	73.01
J142	1125820	10044147	3253	10.59	3390.16	59.43
J144	1125157.7	10044156	3229	10.59	3389.84	69.69
J146	1125772	10044440	3249	10.59	3390.97	61.52
J150	1125760.2	10044468	3249	10.59	3391.12	61.58
J152	1125070.4	10044495	3230	10.59	3390.78	69.67
J154	1125604.7	10044857	3250	10.59	3392.26	61.64
J156	1124669.9	10044862	3224	10.59	3390.21	72.02
J158	1125083.8	10044940	3234	10.59	3392.74	68.78
J16	1122873.1	10038869	3220	10.59	3384.16	71.13
J160	1125559.4	10044955	3250	10.59	3392.79	61.87
J162	1125461.5	10045164	3250	10.59	3393.8	62.31
J164	1125082.3	10045119	3237	10.59	3393.75	67.92
J166	1125311.2	10045480	3248	10.59	3395.29	63.82
J170	1125095.7	10046118	3253	10.59	3396.89	62.35
J174	1125098.7	10046332	3255	10.59	3397.07	61.56
J176	1125100.3	10046582	3252	10.59	3397.28	62.95

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J178	1125446.5	10046575	3264	10.59	3397.27	57.75
J18	1124240	10039216	3210	10.59	3384.01	75.4
J180	1125708.8	10046321	3268	10.59	3396.93	55.87
J182	1125708.8	10046551	3274	10.59	3396.93	53.26
J184	1125954.1	10046316	3277	10.59	3396.91	51.96
J186	1125958.6	10046567	3282	10.59	3396.91	49.79
J188	1126222	10046313	3287	10.59	3396.91	47.63
J190	1125106.7	10046822	3249	10.59	3397.48	64.34
J192	1125604.9	10046828	3267	10.59	3397.17	56.4
J194	1126476.6	10046310	3290	10.59	3396.91	46.32
J196	1126225.2	10046578	3288	10.59	3396.93	47.2
J198	1126452.5	10046572	3290	10.59	3396.92	46.33
J20	1124935.7	10039498	3260	10.59	3384.47	53.93
J200	1126153	10046838	3286	10.59	3396.98	48.09
J202	1126401.3	10046870	3290	10.59	3396.98	46.35
J204	1125109.7	10047063	3250	10.59	3397.7	64
J206	1125853.2	10047423	3272	10.59	3397.1	54.21
J208	1125600.4	10047197	3268	10.59	3397.16	55.97
J210	1125865.3	10047045	3275	10.59	3397.09	52.9
J212	1126130.5	10047146	3284	10.59	3396.99	48.96
J214	1126359.2	10047149	3290	10.59	3396.98	46.36
J216	1126359.2	10047412	3285	10.59	3397.01	48.53
J218	1126130.5	10047418	3278	10.59	3397.02	51.57
J22	1124947.8	10039509	3260	10.59	3384.47	53.93
J220	1125104.9	10047917	3205	10.59	3398.44	83.82
J222	1125104.9	10047957	3205	10.59	3398.44	83.82
J224	1124995	10047917	3197	10.59	3398.42	87.27
J226	1124010.1	10045975	3250	10.59	3394.23	62.5
J228	1123938.1	10045852	3250	10.59	3393.75	62.29
J230	1123803.7	10045935	3245	10.59	3393.2	64.21
J232	1123645.1	10045276	3242	10.59	3389.32	63.83
J234	1124171.6	10045197	3230	10.59	3388.62	68.73
J236	1123445.4	10045194	3248	10.59	3389.61	61.36
J238	1123390.9	10044874	3240	10.59	3389.57	64.81
J24	1124612.1	10039537	3227	10.59	3383.26	67.71
J240	1124671	10045070	3230	10.59	3390.1	69.37
J242	1124652.8	10044538	3220	10.59	3388.99	73.22
J244	1124858.6	10044541	3218	10.59	3388.89	74.05

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J246	1124643.7	10044290	3218	10.59	3388.87	74.04
J248	1123356.6	10044196	3234	10.59	3388.49	66.94
J250	1123989.9	10044107	3214	10.59	3384.27	73.78
J252	1123858.9	10043966	3210	10.59	3383.9	75.35
J254	1124682.6	10044130	3212	10.59	3386.59	75.65
J256	1124684	10043432	3205	10.59	3387.04	78.88
J258	1124684	10043249	3203	10.59	3386.96	79.71
J26	1124424	10039560	3211	10.59	3383.17	74.6
J260	1124881.9	10043093	3198	10.59	3386.8	81.81
J262	1124653.5	10042762	3194	10.59	3386.76	83.52
J264	1124261.5	10042774	3190	10.59	3386.67	85.22
J266	1123934.2	10042774	3190	10.59	3386.46	85.13
J268	1123637.4	10042774	3190	10.59	3386.34	85.07
J270	1123610.7	10042979	3200	10.59	3386.3	80.72
J272	1123619.5	10043324	3207	10.59	3386.29	77.69
J274	1123621.4	10043427	3212	10.59	3385.92	75.36
J276	1123381.7	10043327	3221	10.59	3385.46	71.26
J278	1123166.1	10043500	3225	10.59	3387.26	70.31
J28	1124399.9	10039807	3203	10.59	3383.02	78
J280	1123977.2	10043483	3198	10.59	3386.74	81.78
J282	1124278.7	10043485	3198	10.59	3386.74	81.78
J284	1124647.5	10042156	3188	10.59	3385	85.36
J286	1124341.1	10041745	3188	10.59	3384.63	85.2
J288	1124622.2	10041108	3188	10.59	3381.56	83.87
J290	1124622.2	10040543	3195	10.59	3382.18	81.11
J292	1124828	10040539	3198	10.59	3382.08	79.76
J294	1124725.1	10040253	3195	10.59	3382.81	81.38
J296	1124918.3	10040249	3203	10.59	3382.71	77.87
J298	1124145.4	10041286	3188	10.59	3378.43	82.51
J30	1124834.9	10039531	3244	10.59	3384.41	60.84
J300	1124042.5	10041114	3188	10.59	3378.46	82.53
J302	1124040.4	10040785	3189	10.59	3378.6	82.16
J304	1124195.8	10040785	3188	10.59	3378.59	82.58
J306	1123769.5	10040791	3189	10.59	3378.78	82.23
J308	1123922.8	10040785	3189	10.59	3378.79	82.24
J310	1124727.2	10039992	3198	10.59	3383.68	80.45
J312	1124756.6	10039992	3198	10.59	3383.69	80.46
J314	1124252.5	10039999	3195	10.59	3383.56	81.7

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J316	1123914.4	10040005	3193	10.59	3382.88	82.28
J318	1123886.8	10039438	3210	10.59	3383.85	75.33
J32	1125375.6	10039941	3260	10.59	3384.58	53.98
J320	1123306.8	10040009	3190	10.59	3382.1	83.24
J322	1122289.5	10040159	3030	10.59	3380.52	151.88
J324	1122839.8	10040396	3184	10.59	3380.83	85.29
J326	1122999.4	10040261	3186	10.59	3379.36	83.78
J328	1123180.1	10040549	3182	10.59	3379.37	85.52
J330	1123007.8	10040618	3178	10.59	3379.36	87.25
J332	1123230.5	10040679	3182	10.59	3379.38	85.53
J334	1123283	10040818	3179	10.59	3379.39	86.83
J336	1123545.5	10041082	3185	10.59	3377.69	83.49
J338	1122894.4	10040872	3178	10.59	3379.59	87.35
J340	1122440.4	10040465	3169	10.59	3379.34	91.14
J342	1122623.3	10040641	3178	10.59	3379.37	87.25
J344	1122772.2	10040780	3178	10.59	3379.79	87.44
J346	1122741.5	10040713	3178	10.59	3379.84	87.46
J350	1122729.7	10040740	3178	10.59	3379.8	87.44
J352	1122722.3	10040733	3178	10.59	3379.83	87.45
J354	1122884.2	10041060	3183	10.59	3379.46	85.13
J356	1123612	10041383	3188	10.59	3379.14	82.82
J358	1122415.4	10041101	3192	10.59	3379.36	81.18
J36	1125567.1	10040443	3255	10.59	3384.91	56.29
J360	1122205.7	10041099	3192	10.59	3379.36	81.18
J364	1122181.1	10040941	3189	10.59	3378.34	82.04
J366	1122148.2	10040941	3189	10.59	3378.33	82.04
J368	1122218.1	10040941	3188	10.59	3378.36	82.48
J370	1122183.1	10041179	3194	10.59	3378.34	79.88
J372	1122865.7	10041749	3195	10.59	3377.33	79.01
J374	1123108.3	10041533	3188	10.59	3375.75	81.35
J376	1123749.9	10041802	3188	10.59	3377.08	81.93
J378	1122925.9	10042198	3198	10.59	3382.48	79.94
J38	1125085.4	10040522	3214	10.59	3384.41	73.84
J380	1123041.2	10043167	3222	10.59	3386.28	71.18
J382	1123039.2	10043368	3226	10.59	3386.25	69.44
J384	1123030.9	10043048	3222	10.59	3385.86	71
J386	1122922.2	10043502	3228	10.59	3387.51	69.12
J388	1123012.2	10044175	3237	10.59	3388.07	65.46

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J390	1123018.4	10044630	3245	10.59	3386.5	61.31
J392	1123078	10045202	3250	10.59	3390.37	60.82
J394	1123075.9	10045132	3248	10.59	3390.33	61.67
J396	1123078	10045461	3252	10.59	3390.24	59.9
J398	1122933.5	10045990	3220	10.59	3377.29	68.15
J40	1125639.4	10040959	3255	10.59	3385.27	56.45
J400	1122775.2	10045992	3220	10.59	3377.84	68.39
J402	1122775.2	10046090	3205	10.59	3377.49	74.74
J404	1122470.9	10045807	3208	10.59	3390.84	79.22
J406	1122464.8	10046021	3204	10.59	3391.02	81.04
J408	1122468.9	10045657	3214	10.59	3390.75	76.59
J410	1122207.8	10045663	3212	10.59	3390.72	77.44
J412	1122586.1	10045406	3233	10.59	3387.74	67.05
J414	1122795.8	10045445	3245	10.59	3366.13	52.49
J416	1122322.9	10045307	3222	10.59	3385.15	70.69
J418	1122320.8	10045427	3220	10.59	3385.09	71.53
J42	1125221	10040818	3221	10.59	3385.01	71.06
J420	1122388.7	10045020	3209	10.59	3385.12	76.31
J422	1122884.2	10045014	3238	10.59	3384.58	63.51
J424	1122388.6	10044892	3209	10.59	3385.12	76.31
J426	1122376.3	10044717	3215	10.59	3385.23	73.76
J428	1122880	10044707	3242	10.59	3384.99	61.96
J430	1122384.4	10044188	3240	10.59	3385.79	63.17
J432	1122684.6	10044186	3240	10.59	3387.02	63.7
J434	1122742.1	10043462	3232	10.59	3386.22	66.82
J436	1122197.2	10043462	3228	10.59	3384.23	67.69
J438	1122207.5	10044182	3236	10.59	3384.61	64.39
J44	1125638	10041202	3255	10.59	3385.45	56.53
J440	1121938.2	10044182	3240	10.59	3383.97	62.38
J442	1121938.2	10043551	3234	10.59	3383.8	64.91
J444	1122875.7	10043237	3224	10.59	3386.22	70.29
J446	1122869.5	10043168	3223	10.59	3386.23	70.73
J448	1122869.5	10042870	3222	10.59	3384.36	70.35
J450	1122869.5	10042833	3222	10.59	3384.15	70.26
J452	1122577.6	10042833	3220	10.59	3383.34	70.77
J454	1122577.6	10043042	3224	10.59	3383.31	69.03
J456	1122332.9	10042839	3220	10.59	3383.04	70.65
J458	1122832.5	10042692	3221	10.59	3384.08	70.66

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J46	1125333.9	10041215	3220	10.59	3385.31	71.63
J460	1122321.2	10042093	3208	10.59	3378.91	74.06
J462	1122197.2	10042443	3216	10.59	3379.43	70.81
J464	1121806.6	10042513	3224	10.59	3379.48	67.37
J466	1121781.6	10042455	3224	10.59	3379.31	67.3
J468	1121773.3	10042102	3218	10.59	3378.83	69.69
J470	1121275.8	10042124	3222	10.59	3378.42	67.78
J472	1122184.8	10042099	3208	10.59	3378.83	74.02
J474	1121872.3	10041867	3209	10.59	3378.24	73.33
J476	1121843.5	10041417	3202	10.59	3378.3	76.39
J478	1121573.4	10040954	3197	10.59	3378.21	78.52
J48	1125796.1	10041657	3255	10.59	3385.85	56.7
J480	1121534.4	10041237	3208	10.59	3378.2	73.75
J482	1121530.2	10040954	3195	10.59	3378.21	79.38
J484	1121380.2	10040935	3195	10.59	3378.2	79.38
J486	1121376	10041089	3205	10.59	3378.2	75.05
J488	1121080	10041046	3195	10.59	3378.21	79.38
J490	1120796.2	10041219	3195	10.59	3378.2	79.38
J492	1121080	10041410	3215	10.59	3378.26	70.74
J498	1121390.4	10041422	3216	10.59	3378.28	70.32
J50	1125374.5	10041666	3215	10.59	3384.39	73.4
J502	1121106.7	10041773	3220	10.59	3378.3	68.59
J504	1121151.6	10042114	3220	10.59	3378.38	68.62
J508	1120997.8	10042132	3200	10.59	3378.29	77.25
J510	1121404.9	10043101	3215	10.59	3384.41	73.4
J512	1121400.8	10043516	3225	10.59	3384.61	69.16
J514	1121674.3	10043531	3228	10.59	3383.67	67.45
J516	1121668.1	10043862	3234	10.59	3383.71	64.87
J518	1126598.3	10045335	3307	10.59	3390.5	36.18
J52	1125329.4	10041667	3213	10.59	3384.21	74.19
J520	1126585.9	10044363	3315	10.59	3390.4	32.67
J522	1126614.9	10044079	3320	10.59	3390.24	30.43
J524	1126475.1	10044087	3300	10.59	3390.17	39.07
J526	1126512	10043330	3310	10.59	3390.23	34.76
J528	1124645.6	10044860	3224	10.59	3390.18	72.01
J530	1123982.9	10043964	3210	10.59	3384.34	75.54
J532	1121044.8	10041644	3220	10.59	3378.28	68.58
J534	1121275.6	10042112	3222	10.59	3378.42	67.78

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J536	1122328.1	10040934	3188	10.59	3378.44	82.52
J54	1125327.9	10041538	3216	10.59	3384.15	72.86
J540	1123216.8	10044007	3230	10.59	3387.26	68.14
J542	1123717.6	10043709	3210	10.59	3388.46	77.33
J544	1122921.4	10044178	3238	10.59	3387.98	64.98
J546	1122910.7	10043167	3223	10.59	3386.28	70.75
J548	1122836.4	10040607	3178	10.59	3380.25	87.63
J550	1121429.3	10042126	3224	10.59	3378.52	66.95
J552	1121429.7	10042109	3224	10.59	3378.52	66.95
J554	1124113.5	10047573	3180	10.59	3397.53	94.26
J556	1123927.3	10047480	3182	10.59	3396.1	92.77
J558	1123608.1	10046856	3178	10.59	3394.09	93.63
J56	1125148.8	10041667	3203	10.59	3384.12	78.48
J560	1123546	10046621	3188	10.59	3393.81	89.18
J562	1123275.6	10046630	3188	10.59	3393.53	89.05
J564	1123000.7	10046638	3194	10.59	3392.58	86.04
J566	1122690.4	10046638	3194	10.59	3392.17	85.87
J568	1123546	10046479	3195	10.59	3393.78	86.13
J570	1123541.6	10046364	3198	10.59	3393.76	84.82
J572	1123541.6	10046093	3218	10.59	3235.1	62.87
J574	1122965.3	10047746	3090	10.59	3234.99	68.02
J576	1122756.9	10047990	3078	10.59	3234.97	66.28
J578	1122699.2	10047932	3082	10.59	3384.54	79.96
J58	1125227	10041771	3200	10.59	3234.99	54.16
J580	1123430.8	10048198	3110	10.59	3393.78	81.8
J582	1123719	10046486	3205	10.59	3380.21	81.12
J584	1123918.9	10040419	3193	10.59	3381.69	83.06
J586	1124622.2	10040824	3190	10.59	3384.99	84.49
J588	1124667	10041753	3190	10.59	3385.38	84.66
J590	1124650.8	10042484	3190	10.59	3386.72	77.44
J592	1124676.5	10043672	3208	10.59	3386.62	76.53
J594	1124679.8	10043917	3210	10.59	3381.33	82.04
J596	1123916.8	10040224	3192	10.59	3379.43	82.08
J598	1123920.7	10040593	3190	10.59	3384.5	79.94
J60	1125153.3	10041773	3200	10.59	3383.86	75.33
J600	1123960.9	10039405	3210	10.59	3384.29	92.85
J602	1123915.7	10038691	3170	10.59	3384.16	79.8
J604	1123276.7	10038802	3200	10.59	3385.07	56.36

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J606	1125613.8	10040660	3255	10.59	3392.17	85
J608	1123041.2	10046372	3196	10.59	3392.34	86.81
J610	1122685.5	10046975	3192	10.59	3389.78	64.9
J612	1123831	10044869	3240	10.59	3388.93	66.27
J614	1123362.1	10044494	3236	10.59	3385.51	69.55
J616	1122374.6	10044421	3225	10.59	3384.68	67.02
J618	1121393.2	10043917	3230	10.59	3385.65	82.61
J62	1125227	10042052	3195	10.59	3384.84	71.42
J620	1121762.7	10044511	3220	10.59	3380.53	69.56
J622	1121867.2	10042802	3220	10.59	3384.19	70.28
J624	1122343.9	10043246	3222	10.59	3378.57	77.37
J626	1122184	10041675	3200	10.59	3378.62	80.43
J628	1122418.5	10041365	3193	10.59	3379.19	83.27
J630	1123200.4	10041386	3187	10.59	3379.48	84.7
J632	1123215.5	10041139	3184	10.59	3381.53	84.29
J634	1122840.7	10040181	3187	10.59	3382.49	82.54
J636	1123632.3	10040007	3192	10.59	3383.77	77.46
J638	1124246.6	10039627	3205	10.59	3386.17	56.84
J64	1125882	10042044	3255	10.59	3377.13	80.22
J640	1123271.9	10041808	3192	10.59	3388.69	72.23
J642	1125480.4	10043891	3222	10.59	3384.33	82.9
J644	1123629.7	10042456	3193	10.59	3382.64	80.87
J646	1123015	10042460	3196	10.59	3386.28	80.72
J648	1123944.2	10043324	3200	10.59	3386.67	83.48
J650	1124266.5	10043316	3194	10.59	3394.82	112.58
J652	1123418.2	10047310	3135	10.59	3235.03	58.51
J654	1123431.2	10047915	3100	10.59	3384.58	66.98
J656	1125435.9	10040502	3230	10.59	3382.68	82.62
J658	1123772.5	10040006	3192	10.59	3386.42	57.38
J66	1125912	10042285	3254	10.59	3379	80.59
J660	1122416.7	10041207	3193	10.59	3379.91	68.42
J662	1121815.8	10042660	3222	10.59	3378.72	67.04
J664	1121600.9	10042286	3224	10.59	3384.62	70.03
J666	1121217.4	10043511	3223	10.59	3381.84	68.39
J668	1121875.6	10043169	3224	10.59	3383.17	82.4
J670	1123316.2	10042458	3193	10.59	3386.56	85.17
J672	1124092	10042774	3190	10.59	3385.25	78.53
J674	1123980	10043719	3204	10.59	3388.75	66.62

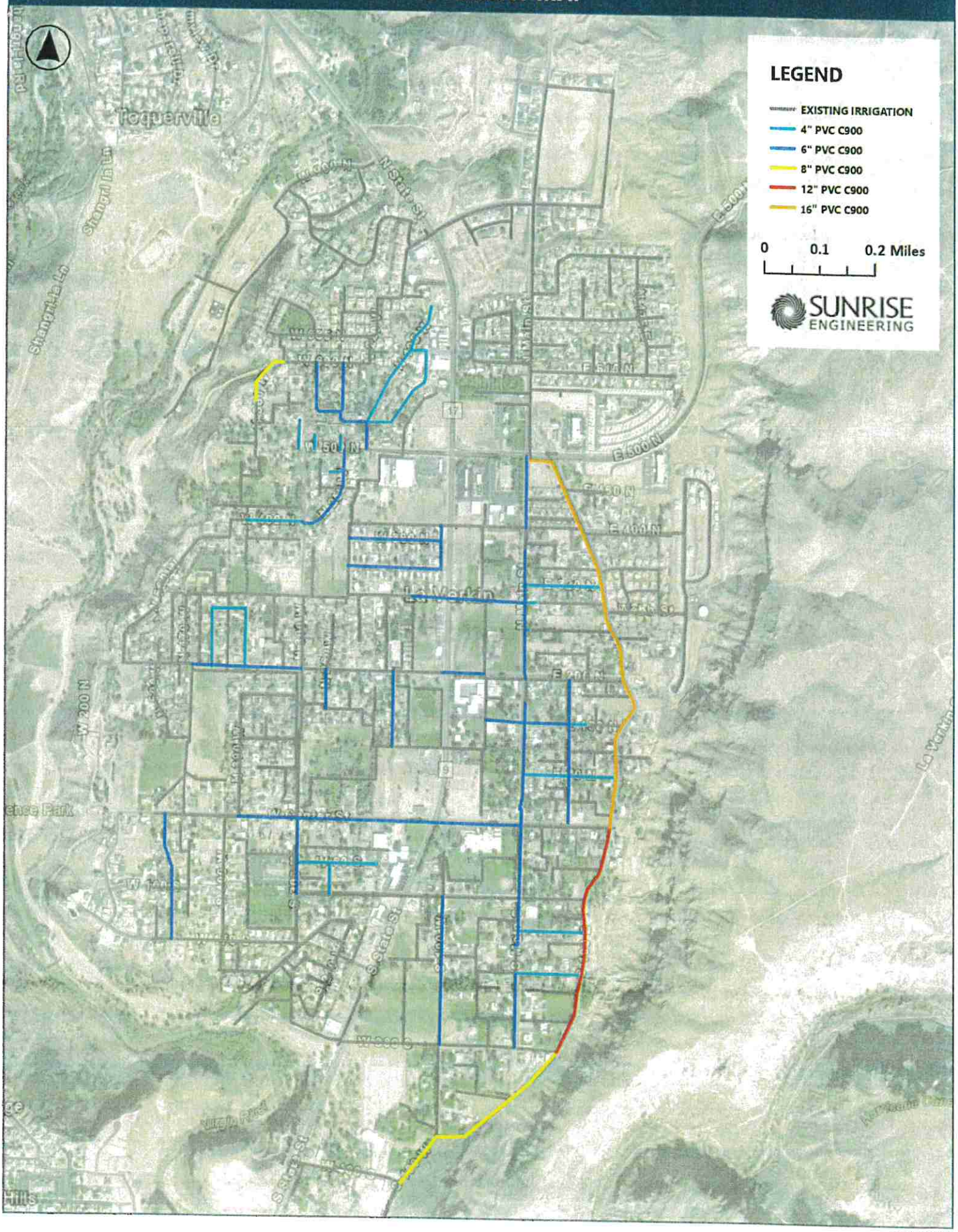
Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J676	1123903.4	10045204	3235	10.59	3235	54.16
J678	1123442.7	10048158	3110	10.59	3380.93	66.27
J68	1125672.7	10042286	3228	10.59	3234.99	54.16
J680	1123380.6	10048225	3110	10.59	3234.99	58.49
J682	1123063.1	10048169	3100	10.59	3235.04	64.58
J684	1122895.5	10047898	3086	10.59	3395.01	93.16
J688	1123855.6	10047023	3180	10.59	3384.7	72.23
J690	1122626.7	10045017	3218	10.59	3383.84	63.19
J692	1121938.2	10043885	3238	10.59	3384.35	63.41
J694	1122202.5	10043832	3238	10.59	3386.55	64.37
J696	1122682.3	10043746	3238	10.59	3385.6	83.45
J698	1125018.8	10042054	3193	10.59	3380.88	66.24
J70	1125672.7	10042387	3228	10.59	3385.59	83.88
J700	1125011	10041754	3192	10.59	3385.96	84.04
J702	1124652.3	10042638	3192	10.59	3385.08	84.96
J704	1124649.1	10042317	3189	10.59	3387.35	76.85
J706	1125145.1	10043429	3210	10.59	3387.26	74.21
J708	1125467.3	10043244	3216	10.59	3386.84	78.36
J710	1124674.9	10043553	3206	10.59	3235	54.16
J712	1123455.6	10048115	3110	10.59	3234.99	54.16
J714	1123332.5	10048225	3110	10.59	3377.88	71.01
J72	1125457.5	10042300	3214	10.59	3398.29	94.58
J720	1124205.5	10047608	3180	10.59	3390.57	36.21
J722	1126592.1	10044849	3307	10.59	3396.6	63.52
J724	1125103.4	10045484	3250	10.59	3234.78	73.56
J726	1122233.4	10047038	3065	10.59	3234.78	75.73
J728	1121872.3	10047177	3060	10.59	3234.67	82.18
J730	1121326.8	10045288	3045	10.59	3234.66	95.18
J732	1120850	10044576	3015	10.59	3388.16	60.73
J734	1126122	10043420	3248	10.59	3385.58	55.71
J736	1125636.5	10041358	3257	10.59	3388.47	71.26
J738	1123723	10044190	3224	10.59	3377.68	70.92
J74	1125457.5	10042413	3214	10.59	3397.91	64.52
J740	1125109.4	10047292	3249	10.59	3384.17	53.8
J742	1125247.9	10039961	3260	10.59	3398.61	87.36
J744	1125220.9	10049016	3197	10.59	3398.77	76.16
J746	1125859.8	10048968	3223	10.59	3399.16	65.93
J748	1125769.5	10047902	3247	10.59	3398.44	77.32

Projected Worst Case Demand (2038) System Performance - (PID)						
Junction ID	X	Y	El. (ft)	Nodal Demand (gpm)	Head (ft)	Pressure (psi)
J750	1124992.9	10050432	3220	10.59	3398.44	78.18
J752	1124948.6	10050389	3218	10.59	3398.21	135.71
J754	1123449.9	10048728	3085	10.59	3398.18	124.43
J756	1123880.9	10048778	3111	10.59	3398.23	123.59
J758	1123501.1	10048585	3113	10.59	3377.58	74.78
J76	1125255.8	10042431	3205	10.59	3398.24	116.23
J760	1123667.7	10048341	3130	10.59	3384.23	92.83
J762	1123896.5	10038697	3170	10.59	3377.45	74.72
J78	1125242.3	10042303	3205	10.59	3377.51	73.02
J80	1125361.2	10042301	3209	10.59	3377.46	72.56
J82	1125361.2	10042198	3210	10.59	3386.92	57.16
J84	1125934.7	10042714	3255	10.59	3386.91	43.29
J86	1126252.3	10042705	3287	10.59	3387	57.2
J88	1125934.6	10042756	3255	10.59	3382.47	68.23
J90	1125457.4	10042761	3225	10.59	3382.42	71.24
J92	1125457.4	10042860	3218	10.59	3382.1	69.81
J94	1125454.4	10042665	3221	10.59	3382.04	74.98
J96	1125323.5	10042668	3209	10.59	3382.08	71.53
J98	1125452.9	10042630	3217	10.59	3234.67	83.05
V8002_NU	1121346.3	10045216	3043	10.59	3234.67	83.05
V8002_ND	1121366.9	10045146	3043	10.59	3394.37	118.89
V8004_NU	1123221.5	10047426	3120	10.59	3235.39	50
V8004_ND	1123060.2	10047523	3120	10.59	3234.77	73.56
V8010_NU	1122217.1	10046991	3065	10.59	3234.77	73.56
V8010_ND	1121854.4	10046291	3065	10.59	3391.45	85.09

APPENDIX C

LaVerkin City
Map of Recommended Improvements

LAVERKIN CITY RECOMMENDED IMPROVEMENT MAP

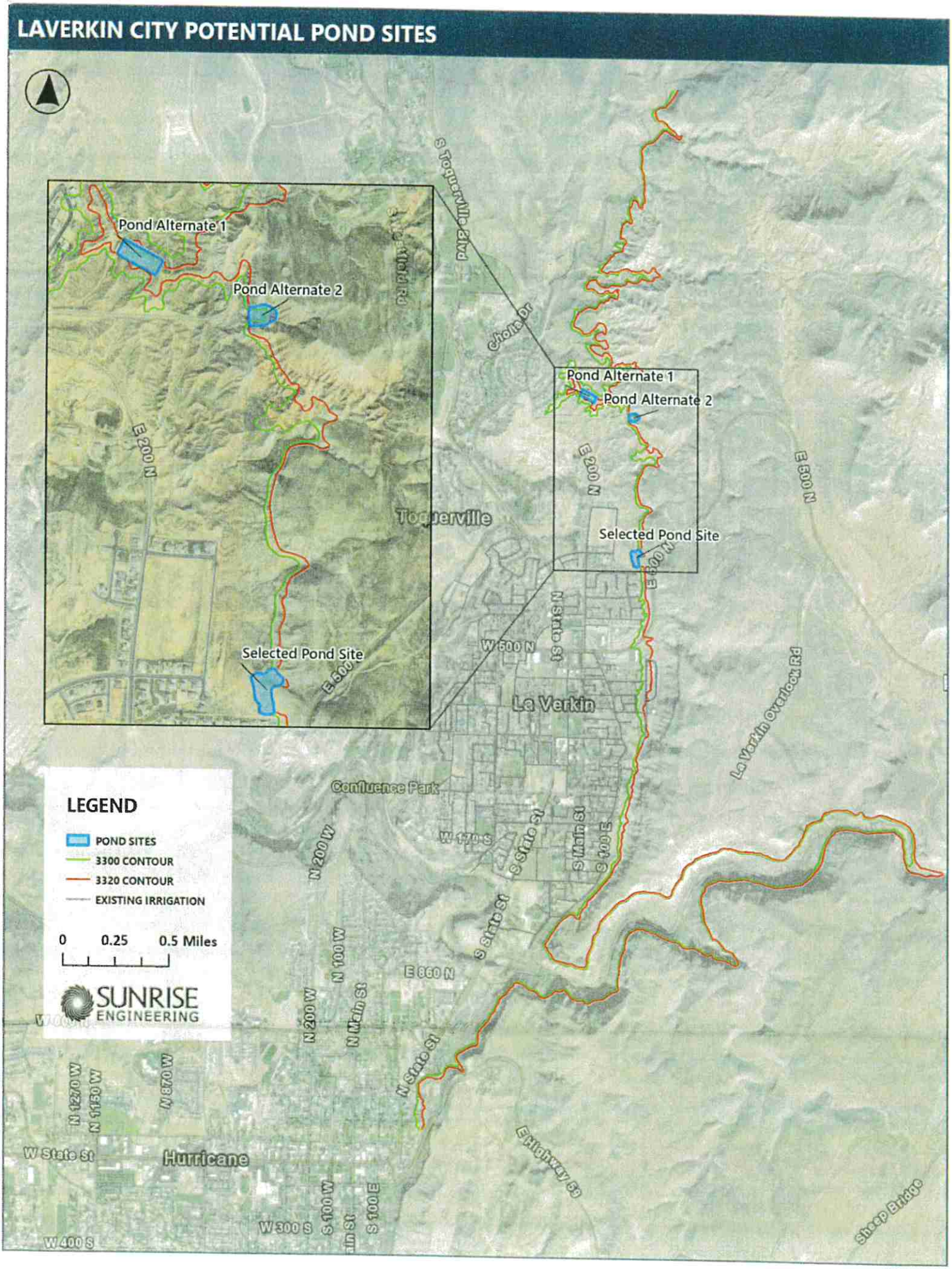


9/15/2025

APPENDIX D

Evaluated Pond Site Locations

LAVERKIN CITY POTENTIAL POND SITES

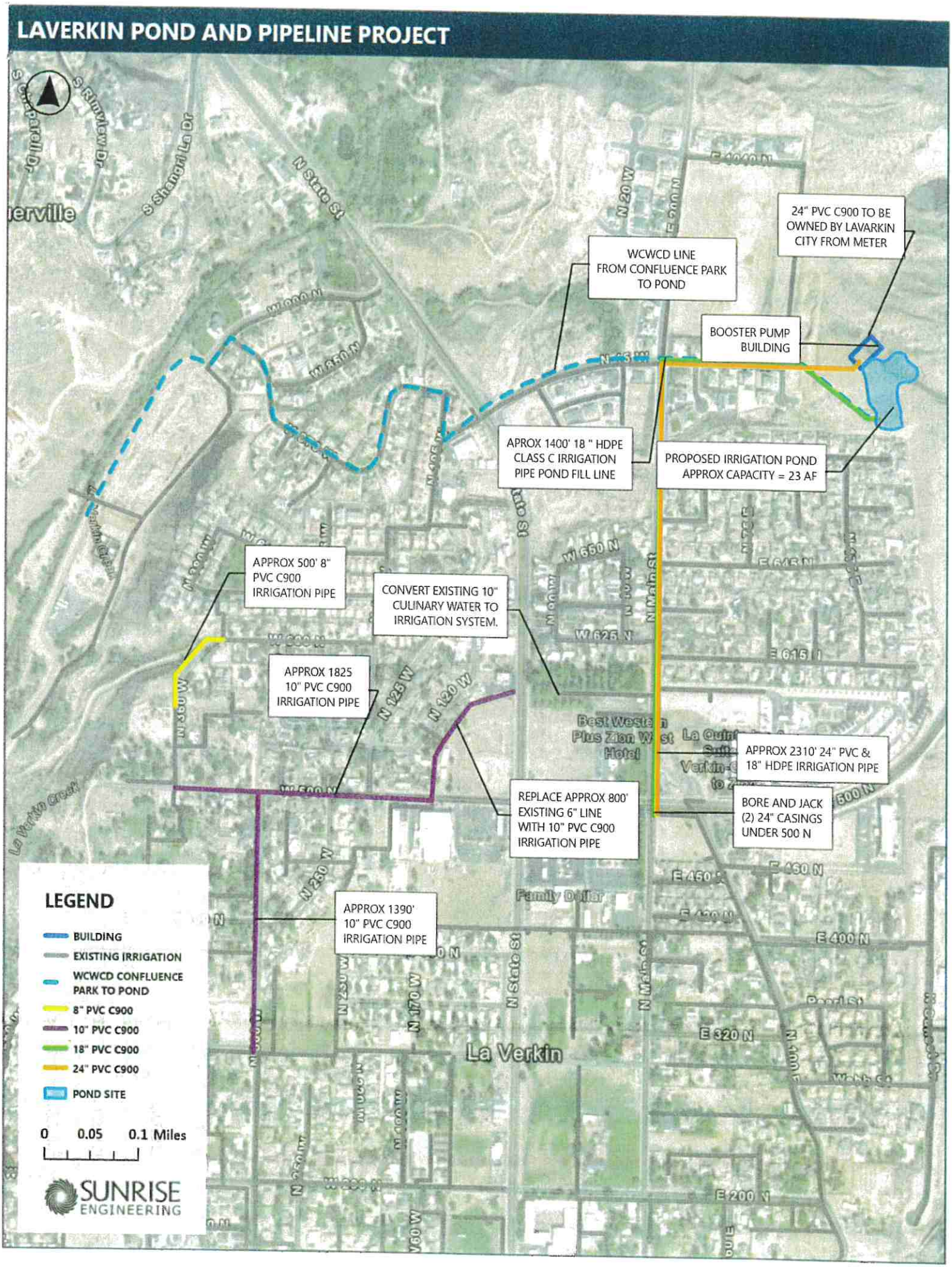


7/28/2025

APPENDIX E

LaVerkin Pond & Pipeline Project

LAVERKIN POND AND PIPELINE PROJECT



7/29/2025

APPENDIX F

Opinions of Probable Cost

Engineer's Opinion of Probable Cost

LaVerkin Pond & Pipeline Project
LaVerkin City & WCWCD

28-Apr-25
PJA/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	1	LS	$ 350,000.00	$ 350,000.00
2	Traffic Control	1	LS	$ 10,000.00	$ 10,000.00
3	Subsurface Investigation	20	HR	$ 225.00	$ 4,500.00
4	Compaction & Materials Testing	1	LS	$ 15,000.00	$ 15,000.00
5	SWPPP Compliance & Erosion Control	1	LS	$ 6,500.00	$ 6,500.00
6	Construction Staking	1	LS	$ 7,000.00	$ 7,000.00
7	Dust Control & Watering	1	LS	$ 10,000.00	$ 10,000.00
8	Restore Surface Improvements	1	LS	$ 25,000.00	$ 25,000.00
				General Construction Subtotal	$ 428,000.00
INSTALL 18" POND FILL LINE AND 24" POND OUTLET LINE FROM POND DOWN MAIN STREET ACROSS 500 N					
9	24" PVC C900, Fittings, & Installation	3,700	LF	$ 165.00	$ 610,500.00
10	18" - HDPE - Irrigation Class C	3,700	LF	$ 75.00	$ 277,500.00
11	Asphalt Removal	27,600	SF	$ 1.00	$ 27,500.00
12	24" Gate Valve Assembly	5	EA	$ 10,500.00	$ 52,500.00
13	18" Gate Valve Assembly	5	EA	$ 7,800.00	$ 39,000.00
14	3" Bituminous Surface Course - Category II	27,400	SF	$ 2.75	$ 75,350.00
15	Boring & Jacking	200	LF	$ 900.00	$ 180,000.00
16	Miscellaneous Connections, Fittings & Tie-Ins	1	LS	$ 35,000.00	$ 35,000.00
17	Concrete Meter Vault	2	LS	$ 115,000.00	$ 230,000.00
				Main Street Lines Subtotal	$ 1,527,350.00
CONSTRUCT 7.4 MG STORAGE POND & BOOSTER PUMP STATION					
18	Earthwork for Irrigation Pond Subgrade	28,000	CY	$ 15.00	$ 420,000.00
19	Imported Select Structural Fill for Pond Embankment	2,000	CY	$ 75.00	$ 150,000.00
20	12" Thick Imported Low Permeable Liner Subgrade	1,500	CY	$ 65.00	$ 97,500.00
21	6" Thick Imported Select Liner Cover Soil	750	CY	$ 75.00	$ 56,500.00
22	Geofabric	51,000	SF	$ 0.85	$ 43,500.00
23	40-mil Reinforced Polyethelyne Liner (2 Layers)	102,000	SF	$ 3.50	$ 357,000.00
24	12" Thick Concrete Lined Settling Basin	1,500	CY	$ 500.00	$ 750,000.00
25	Concrete Transfer Structure	1	EA	$ 100,000.00	$ 100,000.00
26	Pond Aerator	1	EA	$ 5,500.00	$ 5,500.00
27	Concrete Pipe Inlet & Outlet Structures	3	EA	$ 100,000.00	$ 300,000.00
28	12' Gravel Access Road Around Pond	14,400	SF	$ 1.15	$ 16,500.00
29	Booster Pump Station Building	1	LS	$ 450,000.00	$ 450,000.00
30	Booster Pump Skid	1	LS	$ 275,000.00	$ 275,000.00
31	Miscellaneous Electrical Improvements	1	LS	$ 150,000.00	$ 150,000.00
				7.4 MG Storage Pond Subtotal	$ 3,171,500.00
				PROJECT SUBTOTAL	$ 5,126,850.00
				CONTINGENCY 20%	$ 1,025,400.00
				CONSTRUCTION TOTAL	$ 6,152,250.00
INCIDENTALS (PH 2)					
1	Funding & Administration Services	0.1%	EST	$ 7,000.00	$ 7,000.00
2	Bonding Attorney	0.5%	EST	$ 37,000.00	$ 37,000.00
3	Engineering Design Services	5.4%	EST	$ 400,000.00	$ 400,000.00
4	Bidding & Negotiating	0.2%	EST	$ 13,000.00	$ 13,000.00
5	Construction Administration & Observation Services	5.0%	EST	$ 370,000.00	$ 370,000.00
6	SCADA Design	0.6%	EST	$ 44,000.00	$ 44,000.00
7	SCADA Improvements	1.2%	EST	$ 87,000.00	$ 87,000.00
8	Geotechnical Investigations	1.0%	EST	$ 74,000.00	$ 74,000.00
9	Topographic & Property Survey	0.4%	EST	$ 31,000.00	$ 31,000.00
10	Regulatory Compliance	1.2%	EST	$ 87,000.00	$ 87,000.00
11	Miscellaneous Professional Services	1.0%	EST	$ 74,000.00	$ 74,000.00
				PH 2 Subtotal	$ 1,224,000.00
				SUBTOTAL	$ 1,224,000.00
				TOTAL PROJECT COST	$ 7,376,300.00

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs.

Engineer's Opinion of Probable Cost

LaVerkin City Irrigation Transmission Line Improvements
LaVerkin City & WCWCD

20-May-25
PJA/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	1	LS	$ 60,000.00	$ 60,000.00
2	Traffic Control	1	LS	$ 10,000.00	$ 10,000.00
3	Subsurface Investigation	20	HR	$ 225.00	$ 4,500.00
4	Compaction & Materials Testing	1	LS	$ 6,500.00	$ 6,500.00
5	SWPPP Compliance & Erosion Control	1	LS	$ 6,500.00	$ 6,500.00
6	Construction Staking	1	LS	$ 7,000.00	$ 7,000.00
7	Dust Control & Watering	1	LS	$ 10,000.00	$ 10,000.00
8	Restore Surface Improvements	1	LS	$ 25,000.00	$ 25,000.00
9	Miscellaneous Connections, Fittings & Tie-Ins	1	LS	$ 20,000.00	$ 20,000.00
10	10" PVC C900, Fittings, & Installation	4,050	LF	$ 96.00	$ 388,800.00
11	8" PVC C900, Fittings, & Installation	500	LF	$ 75.00	$ 37,500.00
12	Asphalt Removal	18,300	SF	$ 1.00	$ 18,300.00
13	10" Butterfly Valve Assembly	6	EA	$ 3,750.00	$ 22,500.00
14	8" Gate Valve Assembly	2	EA	$ 2,800.00	$ 5,600.00
15	1" Setter, Idler, and Meter Barrel	30	EA	$ 1,800.00	$ 54,000.00
16	1" Service Lateral Pipe (Including Service Saddle & Corporation Stop)	2,500	LF	$ 35.00	$ 87,500.00
17	3" Bituminous Surface Course - Category II	18,300	SF	$ 2.75	$ 50,325.00
			SUBTOTAL		$ 814,025.00
			CONTINGENCY	20%	$ 162,800.00
			CONSTRUCTION TOTAL		$ 976,825.00
INCIDENTALS					
1	Funding & Administration Services	0.9%	EST	$ 9,800.00	$ 9,800.00
2	Bonding Attorney	0.5%	EST	$ 5,900.00	$ 5,900.00
3	Engineering Design Services	5.8%	HR	$ 67,000.00	$ 67,000.00
4	Bidding & Negotiating	0.5%	HR	$ 5,300.00	$ 5,300.00
5	Construction Administration & Observation Services	6.0%	EST	$ 69,000.00	$ 69,000.00
6	GIS Mapping	0.4%	EST	$ 4,900.00	$ 4,900.00
7	Loan Origination Fee	0.5%	EST	$ 5,900.00	$ 5,900.00
8	Miscellaneous Professional Services	0.7%	EST	$ 7,500.00	$ 7,500.00
			SUBTOTAL		$ 175,300.00
			TOTAL PROJECT COST		$ 1,152,100.00

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs.

Engineer's Opinion of Probable Cost

LaVerkin City In-Town Replacements
LaVerkin City
Approximately 36000 LF Irrigation Pipe

7-Feb-25
PJA/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	1	LS	$ 450,000.00	$ 450,000.00
2	Traffic Control	1	LS	$ 144,000.00	$ 144,000.00
3	SWPPP Compliance & Erosion Control	1	LS	$ 108,000.00	$ 108,000.00
4	Dust Control & Watering	1	LS	$ 107,500.00	$ 107,500.00
5	Construction Staking	1	LS	$ 72,000.00	$ 72,000.00
6	Subsurface Investigation	160	HR	$ 350.00	$ 56,000.00
7	Clearing, Grubbing, & Demolition	1	LS	$ 395,000.00	$ 395,000.00
8	Restore Surface Improvements	1	LS	$ 358,000.00	$ 358,000.00
9	Compaction & Materials Testing	1	LS	$ 50,000.00	$ 50,000.00
10	Miscellaneous Connections, Fittings & Tie-Ins	1	LS	$ 394,000.00	$ 394,000.00
11	6" Purple PVC C900, Fittings, & Installation	20,000	LF	$ 70.00	$ 1,400,000.00
12	4" Purple PVC C900, Fittings, & Installation	10,500	LF	$ 50.00	$ 525,000.00
13	6" Gate Valve Assembly	82	EA	$ 2,500.00	$ 205,000.00
14	4" Gate Valve Assembly	32	EA	$ 1,500.00	$ 48,000.00
15	1" Setter, Idler, and Meter Barrel	510	EA	$ 2,250.00	$ 1,147,500.00
16	1" Service Lateral Pipe (Including Service Saddle & Corporation Stop)	13,400	LF	$ 40.00	$ 536,000.00
17	8" Untreated Base Course	181,800	SF	$ 1.50	$ 272,700.00
18	3" Bituminous Surface Course - Category II	181,800	SF	$ 4.50	$ 818,000.00
19	Boring & Jacking	300	LF	$ 800.00	$ 240,000.00
			SUBTOTAL		**$ 7,326,700.00**
			CONTINGENCY	20%	**$ 1,465,300.00**
			CONSTRUCTION TOTAL		**$ 8,792,000.00**
INCIDENTALS					
1	Funding & Administration Services	0.4%	EST	$ 44,000.00	$ 44,000.00
2	Bonding Attorney	0.4%	EST	$ 45,000.00	$ 45,000.00
3	Engineering Design Services	4.9%	LS	$ 492,000.00	$ 492,000.00
4	Bidding & Negotiating	0.2%	HR	$ 25,000.00	$ 25,000.00
5	Construction Administration & Observation Services	4.6%	HR	$ 466,000.00	$ 466,000.00
6	GIS Mapping	0.4%	EST	$ 36,000.00	$ 36,000.00
7	Loan Origination Fee	0.4%	EST	$ 44,000.00	$ 44,000.00
8	Miscellaneous Professional Services	1.1%	EST	$ 115,000.00	$ 115,000.00
9	Topographic & Property Survey	0.5%	EST	$ 52,800.00	$ 52,800.00
			SUBTOTAL		**$ 1,319,800.00**
			TOTAL PROJECT COST		**$ 10,111,800.00**

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs.

Engineer's Opinion of Probable Cost

100 E Transmission Line Improvement
LaVerkin City
Approximately 8000 LF Irrigation Pipe

7-Feb-25
PJA/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	Mobilization	1	LS	$ 135,000.00	$ 135,000.00
2	Traffic Control	1	LS	$ 35,000.00	$ 35,000.00
3	SWPPP Compliance & Erosion Control	1	LS	$ 25,000.00	$ 25,000.00
4	Dust Control & Watering	1	LS	$ 25,000.00	$ 25,000.00
5	Construction Staking	1	LS	$ 16,000.00	$ 16,000.00
6	Subsurface Investigation	100	HR	$ 350.00	$ 35,000.00
7	Clearing, Grubbing, & Demolition	1	LS	$ 100,000.00	$ 100,000.00
8	Restore Surface Improvements	1	LS	$ 80,000.00	$ 80,000.00
9	Compaction & Materials Testing	1	LS	$ 15,000.00	$ 15,000.00
10	Miscellaneous Connections, Fittings & Tie-Ins	1	LS	$ 100,000.00	$ 100,000.00
11	15" Purple PVC C900, Fittings, & Installation	3,800	LF	$ 125.00	$ 475,000.00
12	12" Purple PVC C900, Fittings, & Installation	2,200	LF	$ 115.00	$ 253,000.00
13	8" Purple PVC C900, Fittings, & Installation	2,000	LF	$ 75.00	$ 150,000.00
14	15" Butterfly Valve Assembly	12	EA	$ 6,750.00	$ 81,000.00
15	12" Butterfly Valve Assembly	4	EA	$ 4,100.00	$ 16,400.00
16	10" Butterfly Valve Assembly	1	EA	$ 3,750.00	$ 4,000.00
17	8" Gate Valve Assembly	2	EA	$ 2,800.00	$ 5,600.00
18	6" Gate Valve Assembly	8	EA	$ 2,500.00	$ 20,000.00
19	4" Gate Valve Assembly	5	EA	$ 1,500.00	$ 7,500.00
20	3" Gate Valve Assembly	18	EA	$ 950.00	$ 17,000.00
21	Asphalt Removal	27,000	SF	$ 1.00	$ 27,000.00
22	8" Untreated Base Course	27,000	SF	$ 1.50	$ 40,500.00
23	3" Bituminous Surface Course - Category II	27,000	SF	$ 4.50	$ 122,000.00
24	Remove & Replace 5' Sidewalk	300	SF	$ 20.00	$ 6,000.00
			SUBTOTAL		**$ 1,791,000.00**
			CONTINGENCY	20%	**$ 358,200.00**
			CONSTRUCTION TOTAL		**$ 2,149,200.00**
INCIDENTALS					
1	Funding & Administration Services	0.6%	EST	$ 16,000.00	$ 16,000.00
2	Bonding Attorney	0.3%	EST	$ 8,000.00	$ 8,000.00
3	Engineering Design Services	5.4%	LS	$ 134,000.00	$ 134,000.00
4	Bidding & Negotiating	0.2%	HR	$ 5,000.00	$ 5,000.00
5	Construction Administration & Observation Services	4.6%	HR	$ 114,000.00	$ 114,000.00
6	GIS Mapping	0.4%	EST	$ 9,000.00	$ 9,000.00
7	Loan Origination Fee	0.4%	EST	$ 11,000.00	$ 11,000.00
8	Miscellaneous Professional Services	1.1%	EST	$ 28,000.00	$ 28,000.00
9	Topographic & Property Survey	0.5%	EST	$ 13,000.00	$ 13,000.00
			SUBTOTAL		**$ 338,000.00**
			TOTAL PROJECT COST		**$ 2,487,200.00**

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APPENDIX G

Impact Fee Certification

CERTIFICATION OF IMPACT FEE ANALYSIS BY CONSULTANT

In accordance with Utah Code Annotated § 11-36a-306, Blaine Worrell, P.E., on behalf of Sunrise Engineering, LLC., makes the following certification:

I certify that the attached Impact Fee Facilities Plan and Impact Fee Analysis:

1. Includes only the costs of public facilities that are:
    a. Allowed under the Impact Fees Act; and
    b. Actually incurred; or
    c. Projected to be incurred or encumbered within six years after the day on which each impact fee is paid;

2. Does not include:
    a. costs of operation and maintenance of public facilities;
    b. costs for qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents; or
    c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and that methodological standards set forth by the Federal Office of Management and Budget for federal grant reimbursement;

3. Offsets costs with grants or other alternate sources of payment; and

4. Complies in each and every relevant respect with the Impact Fees Act.

Blaine Worrell, P.E., makes this certification with the following qualifications:

1. All of the recommendations for implementation of the Impact Fee Facilities Plan ("IFFP") made in the IFFP documents or in the Impact Fee Analysis documents are followed in their entirety by LaVerkin City, Utah, staff, and elected officials.

2. If all or a portion of the IFFP or Impact Fee Analyses are modified or amended, this certification is no longer valid.

3. All information provided to Sunrise Engineering, LLC., its contractors or suppliers, is assumed to be correct, complete and accurate. This includes information provided by LaVerkin City, Utah, and outside sources.

4. The undersigned is trained and licensed as a professional engineer and has not been trained or licensed as a lawyer. Nothing in the foregoing certification shall be deemed an opinion of law or an opinion of compliance with law which under applicable professional licensing laws or regulations or other laws or regulations must be rendered by a lawyer licensed in the State of Utah.

5. The foregoing Certification is an expression of professional opinion based on the undersigned's best knowledge, information and belief and shall not be construed as a warranty or guaranty of any fact or circumstance.

6. The foregoing certification is made only to the LaVerkin City, Utah, and may not be used or relied upon by any other person or entity without the expressed written authorization of the undersigned.

Sunrise Engineering, LLC.

By: _____

Dated: _____

APPENDIX H

Lay Person Summary

SUNRISE ENGINEERING

11 North 300 West, Washington, Utah 84780
Tel: 435.652.8450 | **Fax**: 435.652.8416

An Impact Fee Analysis for the LaVerkin City secondary water system has been completed. This summary, designed to be understood by a lay person, has been prepared pursuant to § 11-36a-303 (2) of the Utah Impact Fees Act.

A Secondary Water Impact Fee Analysis, as per the Utah Impact Fees Act, is a study conducted by local authorities to determine the impact of new developments on secondary water management systems. Secondary water refers to water that is not culinary water and is delivered to and used by an end user for the irrigation of landscaping or a garden.

The analysis evaluates how much new developments, like housing or commercial projects, might contribute to secondary water usage and examines use trends to determine the impact of expansion on the secondary water system.

By studying these factors, the analysis helps decide if an Impact Fee, a one-time charge to new development for the purpose of paying for new or expanded public facilities, should be assessed as a condition of development. An Impact Fee is a fair share contribution towards the cost of upgrading or maintaining secondary water infrastructure to handle the increased demand from new development. The Impact Fee Analysis establishes the percentage of each proposed project that serves growth or future development. This percentage is the Impact Fee eligible percentage of each project. The Impact Fee helps ensure that the culinary water system can handle new development projects.

The LaVerkin City Secondary Water Impact Fee Analysis has identified two future Impact Fee Facilities Plans and Impact Fee Analyses to be fully impact fee eligible.

The Town anticipates conducting a new Impact Fee Facilities Plan and Impact Fee Analysis at 5-year intervals. Within the 10-year planning period, the anticipated combined future cost of both plans is $161,700. This fee will be commissioned to study, among other things, the effects of new growth on the system. Impact Fee Facilities Plans and Impact Fee Analyses are generally considered to be 100% Impact Fee eligible.

The total cost of Impact Fee eligible improvements and impact fee eligible debt is $161,700.00. This total is then divided by the total number of anticipated connections over the length of the planning period to determine a maximum allowable impact fee of $241.62 per new connection. Larger meter connections are considered to consume larger amounts of secondary water and are therefore required to pay a higher impact fee based on the meter size. The maximum allowable impact fee for each meter size is shown in Table 1 below.

Table 1 – Maximum allowable impact fee by meter size

LaVerkin City Secondary Water Proposed Impact Fee Schedule	
Meter Size	Impact Fee
1"	$ 241.62
2"	$ 569.30
3"	$ 948.83
4"	$ 1,328.37
6"	$ 3,795.33

APPENDIX I

Cash Flow Analysis

Cash Flow - 20 Year Planning Horizon

	Actual	Actual	Actual	Actual	Actual	Budgeted	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Fiscal Year Beginning July 1	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Ending June 30	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Average Rate Per Connection	$10.95	$10.94	$11.89	$11.10	$8.55	$ 21.99	$ 21.99	$21.99	$21.99	$21.99	$21.99	$21.99	$21.99	$21.99	$21.99	$23.08
Impact Fee/Connection						$241.62	$241.62	$241.62	$241.62	$241.62	$241.62	$241.62	$241.62	$241.62	$241.62	$241.62
System Users:																
Total Contract Holder Connections	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292
Total Lease Users	804	804	804	804	804	848	848	928	968	1008	1048	1088	1128	1168	1208	1248
New Lease User Connections		0	0	0	0	40	40	40	40	40	40	40	40	40	40	40
IRRIGATION FUND INCOME:																
5110 Irrigation Revenue	$ 93,812.00	$64,011.00	$106,758.00	$106,153.00	$71,969.00	$223,770.24	$234,325.44	$244,880.64	$255,435.84	$265,991.04	$276,546.24	$287,101.44	$297,656.64	$308,211.84	$318,767.04	$345,846.08
5110 Irrigation Connection Fees	$2,400.00	$7,618.90	$6,999.00	$1,050.00	$4,631.00	$4,334.95	$4,663.62	$4,791.87	$4,923.64	$5,059.04	$5,198.17	$5,341.12	$5,488.00	$5,638.92	$5,793.99	$5,953.32
5410 Irrigation Penalties	$964.00	$557.00	$1,058.00	$1,605.00	$592.00	$974.00	$1,003.22	$1,033.32	$1,064.32	$1,096.25	$1,129.13	$1,163.01	$1,197.90	$1,233.83	$1,270.85	$1,308.97
5930 Irrigation Assessment	$30,815.00	$30,907.00	$30,008.00	$30,101.00	$29,854.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00
5400 Irrigation MISCELLANEOUS	$0.00	$0.00	$100.00	$2,891.00	$100.00	$619.20										
5610 Irrigation INTEREST INCOME	$10,532.00	$29,408.00	$37,542.00	$4,581.00	$5,794.00	$18,789.60										
TOTAL REVENUE	$ 144,527.00	$132,502.00	$182,531.00	$146,471.00	$112,856.00	$279,041.84	$270,343.28	$281,054.82	$291,774.80	$302,497.33	$313,224.54	$323,956.56	$334,693.53	$345,435.59	$356,182.88	$383,259.38
IRRIGATION FUND OPERATING EXPENSES:																
6310 110 Irrigation SALARIES & WAGES	$ 41,427.00	$47,292.00	$69,249.00	$65,720.00	$51,116.00	$60,756.63	$62,558.73	$64,455.49	$66,458.55	$68,559.01	$70,410.40	$72,522.71	$74,698.39	$76,939.34	$79,247.52	$81,624.95
6310 130 Irrigation EMPLOYEE BENEFITS	$32,621.00	$28,956.00	$34,563.00	$34,062.00	$25,755.00	$31,321.74	$32,263.45	$33,231.36	$34,228.30	$35,255.15	$36,312.80	$37,402.19	$35,524.25	$39,679.93	$40,870.38	$42,095.49
6310 240 Irrigation OFFICE EXPENSE, SUPPLIES & P	$869.00	$906.00	$1,448.00	$1,103.00	$1,350.00	$1,340.42	$1,374.63	$1,209.87	$1,246.16	$1,283.55	$1,322.05	$1,361.72	$1,402.57	$1,444.64	$1,487.93	$1,532.62
6310 250 Irrigation EQUIPMENT OPERATING SUPPLIES	$4,604.00	$2,574.00	$4,654.00	$4,351.00	$5,158.00	$4,037.81	$4,158.94	$4,283.71	$4,412.22	$4,544.59	$4,680.93	$4,821.35	$4,965.99	$5,114.97	$5,268.42	$5,426.47
6310 260 Irrigation NEW WATER MAINS	$466.00	$1,098.00	$0.00	$0.00	$60.00	$334.54	$344.58	$354.92	$365.57	$376.53	$387.83	$399.46	$411.45	$423.79	$436.50	$449.60
6310 280 Irrigation TELEPHONE & COMMUNICATIONS	$648.00	$2,165.00	$738.00	$627.00	$351.00	$941.21	$969.45	$998.53	$1,028.49	$1,059.34	$1,091.12	$1,123.86	$1,157.57	$1,192.30	$1,228.07	$1,264.91
6310 315 Irrigation COMPUTER EQUIPMENT	$0.00	$0.00	$2,545.00	$3,302.00	$2,130.00	$1,844.50	$1,899.83	$1,244.65	$1,796.99	$1,850.90	$1,906.42	$1,963.62	$2,022.53	$2,083.20	$2,145.70	$2,210.07
6310 450 Irrigation WATER MAIN REPAIR	$16,839.00	$4,532.00	$16,859.00	$22,110.00	$10,255.00	$14,641.75	$14,978.00	$15,427.34	$15,890.16	$16,568.86	$16,837.87	$17,763.61	$17,864.51	$18,424.05	$18,973.68	$19,542.89
6310 460 Irrigation CONTRACTED SERVICES	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
6310 510 Irrigation INSURANCE	$7,289.00	$88.00	$10,311.00	$8,670.00	$19.00	$5,809.23	$5,967.39	$5,734.41	$5,906.43	$6,083.64	$6,266.15	$6,454.13	$6,647.76	$6,847.19	$7,052.60	$7,264.18
6310 600 Irrigation DEPRECIATION	$22,071.00	$0.00	$20,479.00	$20,479.00	$0.00	$12,981.30	$13,370.95	$13,772.08	$14,185.24	$14,610.79	$15,049.12	$15,500.59	$15,965.61	$16,444.58	$16,937.92	$17,446.05
Booster Pump O&M							$47,750.00	$49,182.50	$50,657.98	$52,177.71		$53,743.05	$55,355.34	$57,016.01	$58,726.48	$60,488.27
Total Operating Expense	$147,088.00	$83,554.00	$160,850.00	$160,378.00	$96,980.00	$133,007.33	$137,079.95	$108,942.35	$194,610.62	$208,448.54	$206,462.41	$212,656.28	$219,035.97	$225,607.06	$232,375.26	$239,346.51
EXISTING DEBT SERVICE																
2010 Irrigation Water Revenue Bond	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00
Sub-Total Existing Debt Service	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00
NEW DEBT SERVICE																
Combined Payments - Proposed Projects - LaVerkin City In-Town Replacements , 100 E Transmission Line Improvement 0.25% Impact Fee Fund Eligible							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sub-Total New Debt Service	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Debt Service	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00
TOTAL EXPENSES	$158,088.00	$94,554.00	$171,850.00	$171,378.00	$107,980.00	$144,007.33	$148,079.95	$119,942.35	$205,610.62	$211,448.54	$217,462.41	$223,656.28	$230,035.97	$236,607.06	$243,375.26	$250,346.51
Net Cashflow Irrigation Fund	($13,561.00)	$38,013.00	$10,681.00	($25,107.00)	$7,876.00	$134,954.51	$122,263.33	$81,114.47	$86,164.18	$91,048.79	$95,762.13	$100,300.29	$104,657.57	$108,828.55	$112,807.62	$132,912.86
CASH ON HAND																
Cash Project Costs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$16,800.00
Non-Impact Fee Eligible Debt Service	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$11,000.00
Irrigation Fund Balance (FY End June 30)	$0.00	$0.00	$0.00	$0.00	$0.00	$134,954.51	$257,217.84	$338,332.31	$424,496.49	$515,544.88	$611,307.02	$711,607.30	$816,264.87	$925,093.42	$1,037,901.04	$1,084,013.90
Net Cash Flow to Irrigation Fund						$134,954.51	$122,263.33	$81,114.47	$86,164.18	$91,048.39	$95,762.13	$100,300.29	$104,657.57	$108,828.55	$112,807.62	$46,112.86
Renewal & Replacement Fund Balance																
Total Cash on Hand	$0.00	$0.00	$0.00	$0.00	$0.00	$134,954.51	$257,217.84	$338,332.31	$424,496.49	$515,544.88	$611,307.02	$711,607.30	$816,264.87	$925,093.42	$1,037,901.04	$1,084,013.90
IMPACT FEE FUND ACCOUNTING																
Impact Fees Collected	$ 16,532.00	$21,409.00	$37,542.00	$4,581.00	$5,794.00	$2,174.50	$9,664.73	$9,664.73	$9,664.73	$9,664.73	$9,664.73	$9,664.73	$9,664.73	$9,664.73	$9,664.73	$9,664.73
Impact Fees Expended						$0.00	$0.00	$0.00	$0.00	$0.00	$74,904.00	$0.00	$0.00	$0.00	$0.00	$46,800.00
Impact Fee Funds on Hand	$ 16,532.00	$33,044.00	$62,563.00	$100,185.00	$104,686.00	$106,860.50	$116,525.29	$126,190.02	$135,854.75	$145,519.48	$80,284.21	$89,948.94	$99,613.66	$109,278.39	$118,943.12	$41,807.85
PROJECT IMPLEMENTATION																

Cash Flow - 20 Year Planning Horizon

	Projected	Projected	Projected	Projected	Projected
Fiscal Year Beginning July 1	2036	2037	2038	2039	2040
Ending June 30	2037	2038	2039	2040	2041
Average Rate Per Connection	$25.08	$25.08	$25.08	$25.08	$25.08
Impact Fee/Connection	$241.62	$241.62	$241.62	$241.62	$241.62
System Users:					
Total Contract Holder Connections	292	292	292	292	292
Total Lease Users	1288	1328	1368	1368	1368
New Lease User Connections	40	40	40	0	0
IRRIGATION FUND INCOME:					
5110 Irrigation Revenue	$356,724.49	$367,302.34	$378,181.28	$378,181.28	$378,181.28
5110 Irrigation Connection Fees	$6,117.04	$6,285.25	$6,454.10	$6,635.70	$6,814.13
5410 Irrigation Penalties	$1,348.24	$1,348.93	$1,430.32	$1,471.26	$1,517.46
5530 Irrigation Assessment	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00
5490 Irrigation MISCELLANEOUS					
5610 Irrigation INTEREST INCOME					
TOTAL REVENUE	$394,540.74	$405,827.83	$417,129.79	$417,341.24	$417,567.92
IRRIGATION FUND OPERATING EXPENSES:					
6310.110 Irrigation SALARIES & WAGES	$44,193.20	$46,595.91	$49,193.29	$51,909.00	$54,625.09
6310.130 Irrigation EMPLOYEE BENEFITS	$41,190.18	$44,660.17	$45,990.97	$42,370.97	$48,631.37
6310.240 Irrigation OFFICE EXPENSE, SUPPLIES & P	$1,578.60	$1,825.96	$1,674.74	$1,724.98	$1,779.73
6310.250 Irrigation EQUIPMENT OPERATING SUPPLIES	$5,189.27	$5,356.85	$5,676.55	$6,037.54	$6,590.77
6310.260 Irrigation NEW WATER MAINS	$463.09	$479.98	$403.20	$506.09	$521.21
6310.290 Irrigation TELEPHONE & COMMUNICATIONS	$1,703.86	$1,341.95	$1,382.20	$1,423.67	$1,466.74
6310.315 Irrigation COMPUTER EQUIPMENT	$2,276.11	$2,344.60	$2,415.00	$2,487.45	$2,562.07
6310.450 Irrigation WATER MAIN REPAIR	$20,129.18	$20,733.05	$21,355.04	$21,995.70	$22,655.57
6310.460 Irrigation CONTRACTED SERVICES	$0.00	$0.00	$0.00	$0.00	$0.00
6310.510 Irrigation INSURANCE	$7,482.11	$7,706.57	$7,937.77	$8,175.90	$8,421.18
6310.690 Irrigation DEPRECIATION	$17,069.49	$18,508.52	$19,063.77	$19,635.68	$20,224.76
Booster Pump O&M	$62,392.92	$64,172.01	$66,097.17	$68,080.08	$70,122.48
Total Operating Expense	$246,526.91	$263,922.72	$261,540.40	$269,386.41	$277,468.21
EXISTING DEBT SERVICE					
2010 Irrigation Water Revenue Bond	$11,000.00	$11,000.00	$11,000.00	$11,000.00	$0.00
Sub-Total Existing Debt Service	$11,000.00	$0.00	$0.00	$0.00	$0.00
NEW DEBT SERVICE					
Combined Payments - Proposed Projects : LaVerkin City In-Town Replacements , 100 B Transmission Line Improvement	$0.00	$0.00	$0.00	$0.00	$0.00
0.0% Impact Fee Fund Eligible	$0.00	$0.00	$0.00	$0.00	$0.00
Sub-Total New Debt Service	$0.00	$0.00	$0.00	$0.00	$0.00
Total Debt Service	$11,000.00	$0.00	$0.00	$0.00	$0.00
TOTAL EXPENSES	$257,526.91	$253,922.72	$261,540.40	$269,346.41	$277,468.21
Net Cashflow Irrigation Fund	$137,013.85	$151,905.11	$155,580.33	$147,994.43	$140,099.71
CASH ON HAND					
Cash Project Costs	$0.00	$0.00	$0.00	$0.00	$0.00
Non-Impact Fee Eligible Debt Service	$11,000.00	$0.00	$0.00	$0.00	$0.00
Irrigation Fund Balance (FY End June 30)	$1,221,027.75	$1,372,932.86	$1,528,513.20	$1,676,467.83	$1,816,567.54
Net Cash Flow to Irrigation Fund	$137,013.85	$151,905.11	$155,580.33	$147,954.43	$140,099.71
Renewal & Replacement Fund Balance					
Total Cash on Hand	$1,221,027.76	$1,372,932.86	$1,528,513.20	$1,676,467.83	$1,816,567.54
IMPACT FEE FUND ACCOUNTING					
Impact Fees Collected	$9,664.73	$9,664.73	$9,664.73	$0.00	$0.00
Impact Fees Expended	$0.00	$0.00	$0.00	$0.00	$0.00
Impact Fee Funds on Hand	$51,472.68	$61,137.31	$70,802.03	$70,802.03	$70,802.03
PROJECT IMPLEMENTATION					

	Projected	Projected	Projected	Projected	Projected
Fiscal Year Beginning July 1	2041	2042	2043	2044	2045
Ending June 30	2042	2043	2044	2045	2046
Average Rate Per Connection	$25.08	$25.08	$25.08	$25.08	$25.08
Impact Fee/Connection	$241.62	$241.62	$241.62	$241.62	$241.62
System Users:					
Total Contract Holder Connections	292	292	292	292	292
Total Lease Users	1368	1368	1368	1368	1368
New Lease User Connections	0	0	0	0	0
IRRIGATION FUND INCOME:					
5110 Irrigation Revenue	$378,181.28	$378,181.28	$378,181.28	$378,181.28	$378,181.28
5110 Irrigation Connection Fees	$7,005.64	$7,199.34	$7,396.29	$7,599.00	$7,808.08
5410 Irrigation Penalties	$1,362.94	$1,809.67	$1,658.17	$1,307.91	$1,750.15
5530 Irrigation Assessment	$30,351.00	$30,351.00	$30,351.00	$30,351.00	$30,351.00
5490 Irrigation MISCELLANEOUS					
5610 Irrigation INTEREST INCOME					
TOTAL REVENUE	$417,900.94	$418,040.89	$418,286.74	$418,539.88	$418,800.11
IRRIGATION FUND OPERATING EXPENSES:					
6310.110 Irrigation SALARIES & WAGES					
6310.130 Irrigation EMPLOYEE BENEFITS	$97,464.45	$100,388.59	$103,400.64	$106,502.64	$109,697.71
6310.240 Irrigation OFFICE EXPENSE, SUPPLIES & P	$50,265.41	$51,773.37	$53,328.57	$54,926.37	$56,574.16
6310.250 Irrigation EQUIPMENT OPERATING SUPPLIES	$1,830.03	$1,884.93	$1,941.48	$1,999.73	$2,059.72
6310.260 Irrigation NEW WATER MAINS	$6,470.69	$6,673.80	$6,874.00	$7,080.32	$7,292.73
6310.290 Irrigation TELEPHONE & COMMUNICATIONS	$536.84	$552.95	$569.54	$586.63	$604.22
6310.315 Irrigation COMPUTER EQUIPMENT	$1,510.57	$1,555.58	$1,602.35	$1,650.42	$1,699.94
6310.450 Irrigation WATER MAIN REPAIR	$2,638.94	$2,718.10	$2,799.65	$2,883.64	$2,970.15
6310.460 Irrigation CONTRACTED SERVICES	$23,335.23	$24,035.29	$24,756.35	$25,499.04	$26,264.01
6310.510 Irrigation INSURANCE	$0.00	$0.00	$0.00	$0.00	$0.00
6310.690 Irrigation DEPRECIATION	$8,677.91	$8,934.10	$9,202.03	$9,478.11	$9,762.45
Booster Pump O&M	$20,831.50	$21,456.44	$22,100.14	$22,763.14	$23,446.04
Total Operating Expense	$72,226.16	$74,392.94	$76,624.73	$78,923.47	$81,291.17
EXISTING DEBT SERVICE	$285,792.26	$294,166.92	$303,197.00	$312,292.91	$321,661.79
2010 Irrigation Water Revenue Bond	$0.00	$0.00	$0.00	$0.00	$0.00
Sub-Total Existing Debt Service	$0.00	$0.00	$0.00	$0.00	$0.00
NEW DEBT SERVICE					
Combined Payments - Proposed Projects : LaVerkin City In-Town Replacements , 100 B Transmission Line Improvement	$0.00	$0.00	$0.00	$0.00	$0.00
0.0% Impact Fee Fund Eligible	$0.00	$0.00	$0.00	$0.00	$0.00
Sub-Total New Debt Service	$0.00	$0.00	$0.00	$0.00	$0.00
Total Debt Service	$0.00	$0.00	$0.00	$0.00	$0.00
	$0.00	$0.00	$0.00	$0.00	$0.00
TOTAL EXPENSES	$285,792.26	$294,166.92	$303,197.00	$312,292.91	$321,661.79
Net Cashflow Irrigation Fund	$132,008.69	$123,674.17	$115,089.74	$106,246.97	$97,138.41
CASH ON HAND					
Cash Project Costs	$0.00	$0.00	$0.00	$0.00	$0.00
Non-Impact Fee Eligible Debt Service	$0.00	$0.00	$0.00	$0.00	$0.00
Irrigation Fund Balance (FY End June 30)	$0.00	$0.00	$0.00	$0.00	$0.00
Net Cash Flow to Irrigation Fund	$1,948,576.23	$2,072,250.70	$2,187,340.44	$2,293,587.41	$2,390,725.82
Renewal & Replacement Fund Balance	$132,008.69	$123,674.47	$115,089.74	$106,246.97	$97,138.41
Total Cash on Hand	$1,948,576.23	$2,072,250.70	$2,187,340.44	$2,293,587.41	$2,390,725.82
IMPACT FEE FUND ACCOUNTING					
Impact Fees Collected	$0.00	$0.00	$0.00	$0.00	$0.00
Impact Fees Expended	$0.00	$0.00	$0.00	$0.00	$0.00
Impact Fee Funds on Hand	$70,802.03	$70,802.03	$70,802.03	$70,802.03	$70,802.03
PROJECT IMPLEMENTATION					