



Staff Report

for the Water Rates Committee Meeting of June 3, 2021

TO: Water Rates Committee Members

FROM: Chip Close, Water Operations Manager
Aurora Tipton, Customer Service Administrator

DATE: May 27, 2021

SUBJECT: Rate Schedules not subject to the Proposition 218 Process

OPERATIONS

RECOMMENDATION:

Review and discuss rate schedules that are not set using the Proposition 218 process and make a recommendation to the Board of Directors as appropriate.

BACKGROUND:

The Water Rates Committee reviews rates set through the Proposition 218 process at regular and scheduled intervals. However, many rates are not set through the Proposition 218 process and/or have little or no documented procedures for setting these rates. Per committee request, staff is completing a comprehensive review of all schedules. The goal is to document the rate setting process as well as make recommendations for annual increases. Upon completion and approval, staff recommends that comprehensive reviews are conducted each five years using the same methodology. Following is a summary of each schedule and the status of the rate update.

- **4-A -Treated water system, standby charges and connection fees**
 - To be reviewed at a future Water Rates Committee Meeting
- **4-B – Miscellaneous Meter Service Charges**
 - To be reviewed at a future Water Rates Committee Meeting
- **4-EI/4-FI – Treated Water, Non-Commercial/Commercial, Inside District**
 - Rates set via the Proposition 218 Process

- **4-EO/4-FO – Non-Commercial/Commercial, Outside District**
 - Rates set via the Proposition 218 Process

- **4-G – Residential Condominium, Inside District**
 - Rates set via the Proposition 218 Process

- **4-H – Tank or temporary construction water service**
 - Attachment: Page 8 – Current rate schedule with suggested changes
 - *Treated tank water*: Rates are 2.5 times the rate shown in Schedule 4-EI, Treated Water, Inside District. Schedule 4-EI is set through the cost of service and Proposition 218 process.
 - *Raw tank water*: Rates are twice the rate shown in Schedule 5-F, Annual Raw Water Service, Outside District, Smartsville Only.
 - *Deposit*: The current cost for a 3” Hydrant Meter is \$775.00. The \$900.00 deposit is adequate to cover replacement or renewal.
 - *Recommendation*: Eliminate the raw tank water rate and bill all customers 2.5 times the tiered rate shown in Schedule 4-EI, Treated Water, Inside District. Ultimately, staff discourages drafting from canals as flows are set specifically to meet demand from seasonal customers. A uniform treated/raw rate helps to encourage tank water drafting from hydrants.
 - This rate is increased annually proportionate to the rate increase approved for Schedule 4-EI, Treated Water, Inside District.

- **4-I – Off Rate Charges for Treated Water Systems**
 - Attachment: Page 9 – Current rate schedule
 - This rate was established by the rate committee, the date is unknown. The fee compensates for the reading, renewal and replacement of the meter.
 - The rate is 75% of the fixed fee shown on Schedule 4-EI, Treated Water, Inside District and is escalated accordingly. Schedule 4-EI is set through the cost of service and Proposition 218 process, therefore no change is recommended.

- **5-B – Raw Water Service Outlet, Installation Charges**
 - Attachment: Page 10 – Current rate Schedule
 - Attachment: Pages 11-23 – Calculations and recommendations
 - Amend the rate to reflect the calculated cost of completing this work.
 - Adjust the service range to ½ to 12 Miners Inches (MI) with an outlet size up to 4”. Outlets larger than 4 inches, with a service range greater than 12 MI would be billed actual cost.
 - A standard box installation would be increased by 18.09% as compared to the 2021 rate.
 - An orifice service outlet would decrease by 5% as compared to the 2021 rate.

- Eliminate the excess pipe section of this schedule. Per Maintenance and Operations, installations rarely include more than 20 feet of pipe.
- A service relocation would be increased 35.51% as compared to the 2021 rate.
- Continue to adjust all three rates annually, using the Engineering News and Report, 20 City, Construction Cost Index increase for December.
- Adjust the rate every 5 years based on current costs using the same methodology.

• **5-C - Raw Water Service Outlet, Periodic Charges**

- Attachment: Page 24 – Current rate schedule
- Attachment: Page 25 – Calculations and recommendations
- Attachment: Page 26 – Rotation explanation
- This rate compensates the District for the cost to monitor the box, including but not limited to: changing of the screen, locking device, service verification as well as renewal and replacement of the outlet box. Outlet boxes have an estimated life of 20 years.
- Amend the rate to reflect the calculated cost of completing this work.
- Consolidate the “with purchase of water” and the “without purchase of water” rate. All customers would then pay \$181.00 for each active outlet in excess of one, or for each inactive outlet.
- Rotation: Rotations are agreements between land owners to allow for a larger amount of water flow for lesser amount of time. Typically customers have water on for a week and then off for a week with double the amount of water purchased. Example: Two customers purchase 10 miners inches (MI) for season each. Each customer gets 20 MI every other week, rotating with the other customer. The rotations only work if the purchases balance. There are currently three raw water routes that have customers using rotation. The rotation schedule is developed annually and mailed or hand delivered to each rotation customer.
 - Amending the rate to the calculated cost would result in a 290% increase as compared to the 2021 rate. Due to the nature of the reduced purchase per customer, the District does realize water savings. Staff recommends increasing the rate to 50% of the calculated cost to encourage water use efficiency.
- Adjust both the outlet fee and the rotation fee annually, using the Engineering News and Report, 20 City, Construction Cost Index increase for December.
- Adjust the rate every 5 years based on current costs using the same methodology

• **5-D – Annual Raw Water Service, Inside District**

- Attachment: Page 27 – Current rate schedule

- Rates are a set based on Schedule 5-G, Inside District Seasonal Irrigation Water. Schedule 5-G is set through the cost of service and Proposition 218 process, therefore no change is recommended.
- **5-F – Annual Raw Water Service, Outside District, Smartsville Only**
 - Attachment: Page 28 – Current rate schedule
 - Attachment: Page 29 – Calculations and recommendations
 - Increase monthly fixed fee over a five year period to be equivalent to Schedule 5-H.
 - Adjust (95% decrease) volumetric rate to be equivalent to Schedule 5-H, Outside District Surplus Irrigation Water.
- **5-G – Inside District Seasonal Irrigation Water**
 - Rate set via the Proposition 218 Process
- **5-H – Outside District Surplus Irrigation Water**
 - Rate set via the Proposition 218 Process
- **5-I – Demand Water**
 - Attachment: Page 30 – Current rate schedule
 - Wheeling water fee; no change is recommended.
- **5-J – Fall Water**
 - Attachment: Page 31 – Current rate schedule
 - Attachment: Page 32 – Calculations and recommendations
 - This rate is currently calculated using the summer irrigation rates in Schedule 5-G, Inside District Seasonal Irrigation Water or 5-H, Outside District Surplus Irrigation Water.
 - Amend the calculation so that it is based on the winter irrigation rates in Schedule 5-G Inside District Seasonal Irrigation Water or 5-H, Outside District Surplus Irrigation Water and eliminate the minimum charge.
- **5-K – Intermittent Flow Irrigation Water**
 - Attachment: Page 33 – Current rate schedule
 - Attachment: Page 34 – Calculations and recommendations
 - This rate is currently calculated using the summer volumetric rate only shown in Schedule 5-G, Inside District Seasonal Irrigation Water.
 - Amend the calculation so that it is based on the fixed plus volumetric rate, an increase of 170%.
- **5-L – Energy Pumping Cost – Magnolia #3**
 - Attachment: Page 35 – Current rate schedule with suggested changes.

- This rate is calculated based on prior year actual pump costs therefore no change is recommended to the rate.
 - Remove the statement “Charges will be adjusted, after the end of the irrigation season, based on actual water pumped by the District and current year pumping costs.”
- **5-M – Energy Pumping Cost – Edgewood**
 - Attachment: Page 35 – Current rate schedule
 - This rate is calculated based on prior year actual pump costs therefore no change is recommended.
- **5-R – Municipal Water Rates**
 - Attachment: Page 36 – Current rate schedule
 - Attachment: Page 37-38– Calculations and recommendations
 - *Treated water - Fixed Fee* – Amend the schedule to reference 4-EI, Treated Water, Inside District and 4-EO Treated Water, Outside District rate tables for monthly fixed fee.
 - *Treated water – Backflow* – Amend the schedule to reference Schedule 9-C/9-D, Backflow Prevention Device, for monthly fee.
 - *Treated water – Volumetric Charge* - Increase volumetric fee over a five year period to be equivalent to Schedule 4-EI & 4-FI, Treated Water, Inside District and 4-EO, Treated Water, Outside District.
 - *Raw Water* – These rates are currently calculated using Schedule 5-G, Inside District Seasonal Irrigation Water and 5-H, Outside District Surplus Irrigation Water. The volumetric rate is then increased by 80% for a reliability factor, therefore no change is recommended.
 - *Campgrounds*: This rate applies to Orchard Springs (District managed) and Greenhorn Campground (Concessionaire). Historically these sites have not been billed a fixed fee and the volumetric rate has been 25% of the highest tier shown on Schedule 4-EI & 4-FI, Treated Water, Inside District. Staff recommends that the fixed fee be charged commensurate with that shown on Schedule 4EI & 4 FI and that the volumetric charge be increased over a five year period to be equivalent to Schedule 4-EI & 4-FI. After the five year period this rate could be removed from the Schedules and the customer would transition to a standard 4E/4-FI rate.
- **6-A – Miscellaneous Charges, Rendering and Payment of Bills**
 - Attachment: Page 39– Current rate schedule
 - Attachment: Page 40 – Calculations and recommendations
 - Amend the rate to reflect the actual cost of completing this work.
 - Turn-off notification fees would increase 10%. This rate has not been analyzed or increased since 1984.

- Continue to adjust the rate annually, using the Engineering News and Report, 20 City, Construction Cost Index increase for December.
- Adjust the rate every 5 years based on current costs using the same methodology.

• **7-A – Special Service Call**

- Attachment: Page 39 – Current rate schedule
- Attachment: Page 41 – Calculations and recommendations
- Amend the rate to reflect the actual cost of completing this work.
- Increase Service Call Fees, Inside District and Outside District 74%, as compared to 2021 rate. This rate has not been analyzed or increased since 2015.
- Increase After-Hour Service Call Fees, Inside District and Outside District, 55% as compared to the 2021 rate. This rate has not been analyzed or increased since 2015.
- Continue to adjust the rate annually, using the Engineering News and Report, 20 City, Construction Cost Index increase for December.
- Adjust the rate every 5 years based on current costs using the same methodology.

8-A – Public Fire Hydrants on Treated Water Systems

- To be reviewed at a future Water Rates Committee Meeting

8-B – Private Fire Service Installation

- Attachment: Page 42 – Current rate schedule
- Attachment: Page 43 – Recommendations
- Attachment: Page 44 – Section 8.05.02 of District Rules & Regulations with recommended changes

The District has not constructed any Private Fire Services in 10 years or more. These are commonly constructed by a Developer. The District Maintenance Department has a full workload that does not permit this type of work.

Amend section 8.05.02 of the Rules & Regulations and eliminate Schedule 8-B.

• **8-C Private Fire Service – Monthly Charge (Detector Check)**

- To be reviewed at a future Water Rates Committee Meeting

• **8-D Private Fire Service – Monthly Charge (Double Detector Check)**

- To be reviewed at a future Water Rates Committee Meeting

• **9-B Backflow Prevention Device – Installation Charges**

- To be reviewed at a future Water Rates Committee Meeting

9-C Backflow Prevention Device – Monthly Charge

- To be reviewed at a future Water Rates Committee Meeting

10-A District Constructed Mainline Extensions

- Attachment: Page 45 – Current rate schedule
- Attachment: Page 46 – Recommendations
- Attachment: Page 47 – Section 10.04 of District Rules & Regulations with recommended changes.

The District has not completed this type of work since 2013.

Eliminate section 10.04 of the Rules & Regulations and eliminate Schedule 10-A.

● 10-B TSL Treated Water main Contributions

- To be reviewed at a future Water Rates Committee Meeting

● 12-A Penalties for Unauthorized Taking of Water

- To be reviewed at a future Water Rates Committee Meeting

BUDGETARY IMPACT:

Unknown at this time.

Attachments: - See above.

**TANK OR TEMPORARY CONSTRUCTION WATER SERVICE
FROM AN OPEN CANAL AND/OR FIRE HYDRANT**

GENERAL

- 1) The application charge of \$100.00 is nonrefundable.
- 2) The minimum monthly charge shall be \$85.00.
- 3) Applicants who do not turn in tank tally sheets and/or meter readings by the 10th of each month, for the previous month's usage, will be billed at two (2) times the minimum monthly charge or the estimated usage. Billing under this schedule shall not create a credit for future delivery of water.
- 4) This class of water is not to be used for domestic purposes except in an emergency situation as determined by Nevada Irrigation District.

BILLING

TREATED WATER

- 1) Application will automatically be terminated at end of calendar year.
- 2) A deposit of \$900.00 will be collected for the meter and wrench assembly and is refundable after the water used is paid in full, the hydrant has been inspected to determine that no damage has occurred, the meter and fire hydrant wrench have been returned undamaged and all damages to District facilities have been paid in full. Any default on the conditions of the application will result in forfeiture of the deposit.
- 3) ~~Treated w~~Water will be billed at 2.5 times the rate shown in Schedule 4-EI.
- 4) Meter readings or tank tally sheets shall be turned into the District office at the first of each month.
- 5) The minimum monthly charge or the monthly billing for water usage, whichever is greater, will be levied until the meter is returned.
- 6) Applicant will be responsible for backflow prevention as shown in Schedule 9-A.

RAW WATER

- ~~1) Application will terminate at the end of each year unless requested by customer by Dec 10.~~
- ~~2) Raw water will be billed at twice the rate shown in Schedule 5-F.~~
- ~~3) Tank tally sheets shall be turned into the District office at the first of each month.~~
- ~~4) The minimum monthly charge or the monthly billing for water usage, whichever is greater, will be levied until District is advised in writing to close out the account.~~

¹ Rules & Regulations Section 4.01.02, 5.01.08

MONTHLY OFF RATE CHARGES, TREATED WATER SYSTEM

NON-COMMERCIAL & COMMERCIAL – INSIDE DISTRICT

RATE SCHEDULE	METER SIZE	OFF RATE
1	5/8"	\$ 22.00
2	3/4"	33.00
3	1"	55.01
4	1 1/2"	110.00
5	2"	176.01
6	3"	352.01
7	4"	550.02
8	6"	1,100.04
9	8"	1,760.06

State & County Mandated Fee \$1.90

NON-COMMERCIAL & COMMERCIAL – OUTSIDE DISTRICT

RATE SCHEDULE	METER SIZE	OFF RATE
1	5/8"	\$ 27.50
2	3/4"	41.25
3	1"	68.75
4	1 1/2"	137.51
5	2"	220.01
6	3"	440.02
7	4"	687.53
8	6"	1,375.05
9	8"	2,200.08

State & County Mandated Fee \$1.90

¹⁰ Rules & Regulations Section 4.09

RAW WATER SERVICE OUTLET INSTALLATION¹¹

All raw water service connections will be made after proper application and payment is made to the District in accordance with the attached schedule for the requested service.

CANAL SERVICE BOX

SERVICE RANGE	BASIC INSTALLATION CHARGE	EXCESS PIPE LENGTH CHARGE¹ (PER FOOT)	
1/2 to 25 miners inches	\$ 1,316.00	2"	\$ 6.30
<i>Relocation or upsize cost</i>	811.00	3"	7.30
26 to 40 miners inches ²	2,176.00	4"	7.90
<i>Relocation cost</i>	1,236.00	6"	11.40
Over 40 miners inches	Actual Cost	8"	20.50

¹ Where the outlet on a canal service exceeds 20 feet in length, the applicant is charged at the indicated rate per foot for all excess footage in addition to the basic installation charge.

² The District reserves the right to utilize a different type of measuring device on these size services at a cost to be determined by the District.

ORIFICED SERVICE IN RAW WATER PIPELINE OR MANIFOLD

Service Range

Basic Installation Charge*

Amount of water available will depend on manifold pressure, using 2 inch meter flanges or Dole flow control and 2 inch gate valves and air release.

\$ 1,219.00

Any service requiring pipe size over 2"

Actual Cost

* In those instances where the District determines that a screening device is needed in the orificed service to prevent excessive clogging, such screening device shall be the sole cost of the customer (District Regulation 5.04.02 b).

NOTE:

Add 25% to all charges above for existing accounts serving lands outside the District (amount rounded to the nearest dollar.)

¹¹ Rules & Regulations Section 5.04

STANDARD WATER BOX: INSTALLATION

1/2 TO 12 MINERS INCHES PLUS 20 FEET PIPE (2", 3" or 4" outlet)

	<u>Description</u>	<u>Quantity</u>	<u>Hours Required</u>	<u>Hourly Rate w/Ben. & OH</u>	
LABOR	Welder	1	3	\$ 93.12	\$ 279.36
	Utility Worker	1	4	\$ 85.31	\$ 341.24
	Equipment Operator	1	4	\$ 91.31	\$ 365.24

LABOR TOTAL \$ 985.84

	<u>Description</u>	<u>Quantity</u>	<u>Hours Required</u>		
EQUIPMENT 1*	10848 Cat Mini Excavator	1	4	\$ 26.42	\$ 105.68
	10854 Dodge Ram 5500	1	4	\$ 57.70	\$ 230.80
	Light Duty Pickup	1	4	\$ 25.30	\$ 101.20
	10821 Tiltbed 2 Axle Trailer	1	4	\$ 4.92	\$ 19.68

EQUIPMENT TOTAL \$ 457.36

EQUIPMENT 2*	10439 John Deer 335 D Excavator	1	4	\$ 36.48	\$ 145.92
	9648 GMC 3500 4 * 4 Pickup	1	4	\$ 10.00	\$ 40.00
	Light Duty Pickup	1	4	\$ 25.30	\$ 101.20
	9616 Utility Trailer	1	4	\$ 10.00	\$ 40.00

EQUIPMENT TOTAL \$ 327.12

	<u>Description</u>	<u>Per (Foot, each, etc)</u>	<u>Quantity Required</u>		
MATERIALS	Materials List Attached	Each	1	175.46	\$ 175.46

MATERIALS TOTAL \$ 175.46

TOTAL INSTALL COST WITH EQUIPMENT GROUP 1 \$ 1,618.66

TOTAL INSTALL COST WITH EQUIPMENT GROUP 2 \$ 1,488.42

CALCULATED RATE (AVERAGE OF EQUIPMENT GROUP 1 & 2) \$ 1,554.00

2021 ACTUAL RATE	\$ 1,316.00	INCREASE/DECREASE	18.09%
------------------	-------------	-------------------	--------

* Equipment varies by canal, both costs were analyzed and the average cost was used for rate development.

PENTAMATION
 DATE: 02/04/2021
 TIME: 09:17:07

NEVADA IRRIGATION DISTRICT
 REQUEST STATUS

PAGE NUMBER: 1
 INVRE516

SELECTION CRITERIA: invreq.req_no=140190

REQUEST 140190 REQUESTED 02/04/21 REQUIRED 02/04/21 REQ YR 21 REQUESTED BY CARL COOKSON

SHIP TO: 10230 NID GRASS VALLEY CORP YARD WAREHOUSE: 10230 NID GRASS VALLEY CORP YARD

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
01	N03-5430.0	FT	20.0000	.0000	20.0000	02/04/21	.8693	17.39	A	02/04/21
	2" PVC PIPE SCH40									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
02	N13-0100.0	EA	3.0000	.0000	3.0000	02/04/21	.6821	2.05	A	02/04/21
	2" MALE ADAPT PVC SCH40 436-020									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
03	N05-0060.0	EA	1.0000	.0000	1.0000	02/04/21	34.2678	34.27	A	02/04/21
	2" GATE VLV T-408 104-708 NL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
04	N02-0914.0	EA	1.0000	.0000	1.0000	02/04/21	67.8342	67.83	A	02/04/21
	FORMED WATER BOX MAT 12" X 48" X 10GA									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
05	N02-0918.0	EA	2.0000	.0000	2.0000	02/04/21	7.0391	14.08	A	02/04/21
	PLATE-WATER BOX MAT 12" X 12" X 10GA									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
06	N16-0535.0	EA	1.0000	.0000	1.0000	02/04/21	5.5718	5.57	A	02/04/21
	2" COUPLING BLACK MERCHANT									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
07	N11-0825.5	FT	1.0000	.0000	1.0000	02/04/21	2.9979	3.00	A	02/04/21
	2" X 2" X 6FT PIANO HINGE 0.070, 1/4" PIN PR#63181									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
08	N18-0346.0	EA	1.0000	.0000	1.0000	02/04/21	13.8437	13.84	A	02/04/21

PENTAMATION
 DATE: 02/04/2021
 TIME: 09:17:07

NEVADA IRRIGATION DISTRICT
 REQUEST STATUS

PAGE NUMBER: 2
 INVRE516

SELECTION CRITERIA: invreq.req_no=140190

REQUEST 140190 REQUESTED 02/04/21 REQUIRED 02/04/21 REQ YR 21 REQUESTED BY
 CARL COOKSON

SHIP TO: 10230 NID GRASS VALLEY CORP YARD WAREHOUSE: 10230 NID GRASS VALLEY CORP YARD

PLASTIC 10" ROUND VLV BOX #910-1G2GW W/BOLT LID

BUDGET UNIT ACCOUNT PROJECT ACCOUNT
 10191 52504 10314 52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
09	N01-0014.0	EA	1.0000	.0000	1.0000	02/04/21	17.4306	17.43	A	02/04/21
	47-3/4" ORIFICE BOARDS									

BUDGET UNIT ACCOUNT PROJECT ACCOUNT
 10191 52504 10314 52504

TOTAL REQUEST 175.46

TOTAL REPORT 175.46

ORIFICED SERVICE IN RAW WATER PIPELINE OR MANIFOLD w/DOLE FLOW OR ORIFICE PLATE

Any service 2" or under

	<u>Description</u>	<u>Quantity</u>	<u>Hours Required</u>	<u>Hourly Rate w/Ben. & OH</u>	
LABOR	Utility Worker	2	4	\$ 85.31	\$ 682.48
EQUIPMENT	Pipe Truck 10748	1	4	28.17	\$ 112.68
MATERIALS 1*	Dole Flow Device			\$ 378.68	\$ 378.68
MATERIALS 2*	Orifice Plate			\$ 352.07	\$ 352.07
TOTAL INSTALL COST WITH MATERIAL GROUP 1				\$	1,173.84
TOTAL INSTALL COST WITH MATERIAL GROUP 2				\$	1,147.23
CALCULATED RATE (AVERAGE OF MATERIAL GROUP 1 & 2)				\$	1,160.50

2021 ACTUAL RATE	\$	1,219.00	INCREASE/DECREASE	-5%
------------------	----	----------	-------------------	-----

RAW WATER MANIFOLD W/
ORIFICE PLATE, PAGE 1 OF 4

PENTAMATION
DATE: 02/04/2021
TIME: 08:55:11

NEVADA IRRIGATION DISTRICT
REQUEST STATUS

PAGE NUMBER: 1
INVRE516

SELECTION CRITERIA: invreq.req_no=140187

REQUEST 140187 REQUESTED 02/04/21 REQUIRED 02/04/21 REQ YR 21 REQUESTED BY CARL COOKSON

SHIP TO: 10230 NID GRASS VALLEY CORP YARD WAREHOUSE: 10230 NID GRASS VALLEY CORP YARD

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
01	N13-0100.0	EA	3.0000	.0000	3.0000	02/04/21	.6821	2.05	A	02/04/21
	2" MALE ADAPT PVC SCH40 436-020									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
02	N16-0021.0	EA	1.0000	.0000	1.0000	02/04/21	7.08	7.08	A	02/04/21
	2" COMPRESSION COUP PVC SPEARS S110-20									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
03	N05-0060.0	EA	2.0000	.0000	2.0000	02/04/21	34.2678	68.54	A	02/04/21
	2" GATE VLV T-408 104-708 NL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
04	N16-2791.3	EA	1.0000	.0000	1.0000	02/04/21	98.2472	98.25	A	02/04/21
	2" WYE STRAINER FIPT BRASS ZURN SXL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
05	N19-0360.0	EA	3.0000	.0000	3.0000	02/04/21	7.4975	22.49	A	02/04/21
	2" X CLOSE NIPPLE BRASS NL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
06	N10-0641.0	EA	2.0000	.0000	2.0000	02/04/21	20.4751	40.95	A	02/04/21
	2" METER COMPANION FLG CI									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
07	N05-0298.5	EA	1.0000	.0000	1.0000	02/04/21	11.7683	11.77	A	02/04/21
	1/2" BALL VALVE WATTS LFFBV-3C-M1 NL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
08	N19-0259.0	EA	1.0000	.0000	1.0000	02/04/21	1.0011	1.00	A	02/04/21

RAW WATER MANIFOLD W/
ORIFICE PLATE, PAGE 3 OF 4

PENTAMATION
DATE: 02/04/2021
TIME: 09:04:26

NEVADA IRRIGATION DISTRICT
REQUEST STATUS

PAGE NUMBER: 1
INVRE516

SELECTION CRITERIA: invreq.req_no=140189

REQUEST 140189 REQUESTED 02/04/21 REQUIRED 02/04/21 REQ YR 21 REQUESTED BY CARL COOKSON

SHIP TO: 10230 NID GRASS VALLEY CORP YARD WAREHOUSE: 10230 NID GRASS VALLEY CORP YARD

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
01	N18-0346.0	EA	1.0000	.0000	1.0000	02/04/21	13.8437	13.84	A	02/04/21
	PLASTIC 10" ROUND VLV BOX #910-1G2GW W/BOLT LID									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

TOTAL REQUEST 13.84

TOTAL REPORT 13.84

RAW WATER MANIFOLD W/DOLE
FLOW, PAGE 1 OF 4

PENTAMATION
DATE: 02/04/2021
TIME: 09:02:16

NEVADA IRRIGATION DISTRICT
REQUEST STATUS

PAGE NUMBER: 1
INVRE516

SELECTION CRITERIA: invreq.req_no=140188

REQUEST 140188 REQUESTED 02/04/21 REQUIRED 02/04/21 REQ YR 21 REQUESTED BY CARL COOKSON

SHIP TO: 10230 NID GRASS VALLEY CORP YARD WAREHOUSE: 10230 NID GRASS VALLEY CORP YARD

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
01	N19-0480.0	EA	2.0000	.0000	2.0000	02/04/21	17.0591	34.12	A	02/04/21
	2" X 1" BELL RED BRASS NL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
02	N19-0310.0	EA	2.0000	.0000	2.0000	02/04/21	2.2832	4.57	A	02/04/21
	1" X CLOSE NIPPLE BRASS NL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
03	N05-0060.0	EA	2.0000	.0000	2.0000	02/04/21	34.2678	68.54	A	02/04/21
	2" GATE VLV T-408 104-708 NL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
04	N19-0360.0	EA	3.0000	.0000	3.0000	02/04/21	7.4975	22.49	A	02/04/21
	2" X CLOSE NIPPLE BRASS NL									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
05	N13-0100.0	EA	3.0000	.0000	3.0000	02/04/21	.6821	2.05	A	02/04/21
	2" MALE ADAPT PVC SCH40 436-020									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
06	N05-0270.0	EA	1.0000	.0000	1.0000	02/04/21	7.08	7.08	A	02/04/21
	2" COMPRESSION COUP PVC SPEARS 10-20									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
07	N05-0525.0	EA	1.0000	.0000	1.0000	02/04/21	33.1468	33.15	A	02/04/21
	20 GPM DOLE FLOW CONTROL VALVE MODEL GX									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
08	N05-0298.5	EA	1.0000	.0000	1.0000	02/04/21	11.7683	11.77	A	02/04/21

RAW WATER MANIFOLD W/DOLE
FLOW, PAGE 3 OF 4

PENTAMATION
DATE: 02/04/2021
TIME: 09:04:26

NEVADA IRRIGATION DISTRICT
REQUEST STATUS

PAGE NUMBER: 1
INVRES16

SELECTION CRITERIA: invreq.req_no=140189

REQUEST 140189 REQUESTED 02/04/21 REQUIRED 02/04/21 REQ YR 21 REQUESTED BY
CARL COOKSON

SHIP TO: 10230 NID GRASS VALLEY CORP YARD WAREHOUSE: 10230 NID GRASS VALLEY CORP YARD

LN	STOCK NUMBER/DESCRIPTION	UNIT	REQUESTED	BACK ORDERED	FILLED	DATE	UNIT PRICE	TOTAL PRICE	STATUS	DATE
01	N18-0346.0	EA	1.0000	.0000	1.0000	02/04/21	13.8437	13.84	A	02/04/21
	PLASTIC 10" ROUND VLV BOX #910-1G2GW W/BOLT LID									

BUDGET UNIT	ACCOUNT	PROJECT	ACCOUNT
10191	52504	10314	52504

TOTAL REQUEST	13.84
TOTAL REPORT	13.84

CANAL SERVICE BOX : RELOCATION

1/2 TO 12 MINERS INCHES (2", 3" or 4" outlet)

	<u>Description</u>	<u>Quantity</u>	<u>Hours Required</u>	<u>Hourly Rate w/Ben. & OH</u>	
LABOR	Utility Worker	1	4	\$ 85.31	\$ 341.24
	Equipment Operator	1	4	\$ 91.31	\$ 365.24
LABOR TOTAL					\$ 706.48

	<u>Description</u>	<u>Quantity</u>	<u>Hours Required</u>		
EQUIPMENT 1*	10848 Cat Mini Excavator	1	4	\$ 26.42	\$ 105.68
	10854 Dodge Ram 5500	1	4	\$ 57.70	\$ 230.80
	Light Duty Pickup	1	4	\$ 25.30	\$ 101.20
	10821 Tiltbed 2 Axle Trailer	1	4	\$ 4.92	\$ 19.68
EQUIPMENT TOTAL					\$ 457.36

EQUIPMENT 2*	10439 John Deer 335 D Excavator	1	4	\$ 36.48	\$ 145.92
	9648 GMC 3500 4 * 4 Pickup	1	4	\$ 10.00	\$ 40.00
	Light Duty Pickup	1	4	\$ 25.30	\$ 101.20
	9616 Utility Trailer	1	4	\$ 10.00	\$ 40.00
EQUIPMENT TOTAL					\$ 327.12

TOTAL INSTALL COST WITH EQUIPMENT GROUP 1	\$	1,163.84
TOTAL INSTALL COST WITH EQUIPMENT GROUP 2	\$	1,033.60
CALCULATED RATE (AVERAGE OF EQUIPMENT GROUP 1 & 2)	\$	1,099.00

2021 ACTUAL RATE	\$	811.00	INCREASE/DECREASE	35.51%
------------------	----	--------	-------------------	--------

* Equipment varies by canal, both costs were analyzed and the average cost was used for rate development.

RAW WATER SERVICE OUTLET PERIODIC CHARGES

ACTIVE ACCOUNT (With Purchase of Water) -	\$48.00 per year charge for each outlet in excess of one.
ACCOUNT CHARGE (Without Purchase of Water) -	\$72.00 annual charge on all inactive raw water accounts, plus a \$72.00 annual charge for each additional outlet.
ROTATION -	\$102.45 per season per outlet.

NOTE:

Add 25% to all charges above for existing accounts serving lands outside the District (amount rounded to the nearest dollar.)

ACTIVE OR INACTIVE ACCOUNT

- Q: What costs is the District recovering through this charge?
 A: Renewal/replacement of box
 Monitoring/Annual maintenance of box including changing of screen; locking device, service verification
- Q: What are the operational differences between an active outlet and an inactive outlet?
 A: The screen does not get changed on an inactive service.
- Q: What is the life expectancy of an outlet box?
 A: 20 years

Orifice Service Installation Charge from Sch 5-B (Pipeline/Manifold)	\$ 1,160.50
Standard Service Installation Charge from Sch 5-B (Water Box)	\$ 1,554.00
Average	\$ 1,357.00
Renewal/Replacement per year based on 20 year life (Average/20 years)	\$ 67.85
One service call annually	\$ 113.00
Calculated Rate	\$ 181.00

2021 Actual Rate (Inactive)	\$ 72.00	INCREASE/DECREASE	151%
2021 Actual Rate (Active)	\$ 48.00	INCREASE/DECREASE	277%

ROTATION

Per season, per outlet

- Q: What costs is the District recovering through this charge?
 A: See attached rotation description

		<u>Hourly Rate</u>	
	Hours	w/Ben. & OH	Total
Management Assistant	8	\$ 86.60	\$ 692.80
Water Distribution Supervisor	4	\$ 100.42	\$ 401.68
Assistant Water Superintendent	4	\$ 111.23	\$ 444.92
Water Distribution Operator	7 hours/wk*26 weeks	\$ 88.22	\$ 16,056.04
TOTAL			\$ 17,595.44

22 customers currently on rotation		Calculated Rate (Total/22)	\$ 799.79
		Recommendation:	\$ 400.00

2021 Actual Rate	\$ 102.45	INCREASE/DECREASE	290%
------------------	-----------	-------------------	------

Recommendation Notes:

Increase rate to 50% of the calculated cost.
 While this service call is scheduled and specific to those customers utilizing rotation, Water Distribution Operators (WDO) are already on route, offsetting some of the costs.

Rotations are a larger amount of water flow for lesser amount of time. Typically on for a week, off for a week with double the amount of water purchased.

Example: A customer purchases 10 MI for the season, they get 20 MI every other week and are rotated with another customer with the same purchase. The rotations only work if they balance.

Routes 3, 7 and 8 have rotation customers located on multiple canal systems. A schedule is created annually and mailed or hand delivered to each customer. Planning for the upcoming rotations takes place early in the year with review of the previous schedule along with evaluation of the previous rotation service.

Route 3:

The rotation on route 3 (Newtown canal) switches every 5 days. The 2 boxes rotated go on or off on the days of the month ending in 0 and 5. The WDO is at the service boxes at 7 am to make the necessary changes. Total time worked for rotation is approximately 30 minutes for a WDO. The services are checked multiple times per week to ensure proper flow.

Route 7:

Route 7 has rotations on multiple canals including the Tarr and Clear Creek. The Tarr canal rotations take place on the lower end of the canal near the Robinson Ranch. These customers rotate every 3 days and complete all of the moving of water themselves. WDO's will check multiple times throughout the week to make sure adequate flows are in the canal. Contact is made with customers if not setup properly and WDO will make necessary changes.

The Clear Creek canal is a rotation of 2 customers on a 7 day setup. The WDO turns on and off one box and one of the customers takes care of the other. Approximately 30 minutes of time plus a few checks during the week to ensure proper flows.

Route 8:

Route 8 rotations are the most involved of all of the rotation series. They are a 7 day setup where the WDO is doing 90% of the changes to the services. Time frame starts at beginning of shift 0700 and takes approximately 3-4 hours to get all the way through the weekly changes. There is additional time each week checking the flows and making sure customers have not changed anything in the field.

Summary:

Evaluation time: Supervisor and Assistant Superintendent (4 hrs. each)

Schedule preparation, printing and delivery: Supervisor (4 hrs.), Management Assistant (4-6 hrs.), WDO (4 hrs.)

Weekly time per route for WDO: Route 3 (3 -5 hrs.) Route 7 (8 +/-hrs.) Route 8 (8 +/-hrs.)

*Times are best estimates based on rotation history

SCHEDULE OF RATES AND CHARGES
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-D¹²
EFFECTIVE JANUARY 01, 2021

ANNUAL RAW WATER SERVICE, INSIDE DISTRICT

Charges for raw (untreated) water sold for irrigation use on an annual basis and billed monthly.

Miners Inches	1/4	1/2	1	1 ½	2	5
Monthly Rate:	\$ 122.83	138.61	152.63	166.65	180.67	422.51

Monthly Rate During a Drought Declaration:							
Drought Stage	Miners Inches	1/4	1/2	1	1 ½	2	5
	2	\$ 125.78	144.50	161.14	177.78	194.42	481.48
	3	\$ 130.05	153.04	173.47	193.91	214.34	566.85
	4	\$ 133.37	159.69	183.08	206.47	229.86	633.34

* Per the Nevada Irrigation District Drought Contingency Plan

¹² Rules & Regulations Section 5.01.04

**ANNUAL RAW WATER SERVICE, OUTSIDE DISTRICT
 SMARTSVILLE ONLY**

Charges for raw (untreated) water sold for irrigation use through a metered connection.

Service Size:	5/8"	3/4"	1"	1 1/2"	2"	3"	4"
Minimum Monthly Rate:	\$ 2.51	2.51	2.51	2.51	2.51	2.51	2.51
USAGE RATES:	\$2.21 per hundred cubic feet (hcf) per billing period						

NOTE:

Water served pursuant to this schedule is untreated; which, if consumed or used for culinary purposes, could cause serious illness. If the water is so used, it is used at the customer's own risk.

SCHEDULE 5-F

ANNUAL RAW WATER SERVICE OUTSIDE DISTRICT, SMARTSVILLE ONLY

Charges for raw water sold for irrigation use through a metered connection

Recommendation:

- 1 Condense schedule to only 1" meter; all customers billed on this rate schedule have a 1" meter
- 2 Increase monthly fixed fee over five years to be equivalent to Schedule 5-H using 2021 fixed fee as base.
- 3 Adjust (decrease) volumetric service charge to be equivalent to Schedule 5-H. Adjust using 2021 calculated volumetric charge as base.
- 4 Increase volumetric service charge annually based on increase to Raw Water Seasonal Volumetric

2021 Monthly Calculated Fixed Fee: \$ 133.71

2021 Volumetric Calculated Rate: \$ 0.12 Based on 3,952.80 HCF summer/3931.20 HCF winter

	2022	2023	2024	2025	2026
Monthly Fixed Fee*:	\$ 26.70	\$ 53.50	\$ 80.20	\$ 107.00	\$ 133.70
Fixed Fee Increase	964%	100%	50%	33%	25%

*Plus annual rate increase

2021 Monthly Fixed Fee: \$ 2.21

2021 Volumetric Rate: \$ 2.51

DEMAND WATER

When available, Demand Irrigation Water may be purchased at rates equal to the following factors, times the normal Irrigation Water rate:

DEMAND (In Days)	10	20	30	40	50	60	70	80	90	100
RATE FACTOR	.20	.35	.50	.65	.75	.80	.85	.90	.95	1.00

Minimum Charge: \$317.60 (.35 x 1 M.I. summer seasonal irrigation water rate)

During a drought declaration: When available, Demand Irrigation Water may be purchased at rates equal to the above factors, times the drought stage Irrigation Water rate.

DROUGHT STAGE*:	MINIMUM CHARGE
2	\$ 339.60
3	371.50
4	396.30

* Per the Nevada Irrigation District Drought Contingency Plan

Duration must be established upon application. All charges for demand service will be collected in advance of the start of delivery.

NOTE:

Add 25% to all charges above for existing accounts serving lands outside the District (amount rounded to the nearest dollar.)

FALL/STOCK WATER

AVAILABILITY: October 15 to December 1 to regular irrigation water customers in quantities up to the amount of the seasonal purchase

RATE: \$2.15 Per M.I. day (10 M.I. seasonal rate divided by 1830 M.I.D.)

MINIMUM CHARGE: \$317.60 (.35 X 1 M.I. Summer Seasonal Irrigation Water Rate)

During a drought declaration:

DROUGHT STAGE*:	MINIMUM CHARGE	RATE PER MI, PER DAY
2	\$ 339.60	\$ 2.49
3	371.50	2.99
4	396.30	3.38

* Per the Nevada Irrigation District Drought Contingency Plan

All charges for fall/stock water service will be collected in advance of delivery.

NOTE:

Add 25% to all charges above for existing accounts serving lands outside the District (amount rounded to the nearest dollar.)

Schedule 5-J

FALL/STOCK WATER

AVAILABILITY: October 15 to December 1 to regular irrigation water customers in quantities up to the amount of the seasonal purchase. (47 Days)

Recommendations (3):

1 **RATE PER MI, PER DAY:** (Winter Fixed + 1 Miners Inch Volumetric)/182
2021 Calculated \$ 6.23

2021 Actual	\$	2.15
Increase		190%

(Summer Fixed + 10 Miners Inch Volumetric/1830)

2 **MINIMUM CHARGE:** Eliminate minimum charge

2021 Actual	\$	317.60
-------------	----	--------

(.35 * 1 Miners Inch Seasonal Irrigation Water Rate)

3 **Add:** A service call fee as shown in schedule 7-A shall be charged for turn off

RAW INTERMITTENT FLOW IRRIGATION WATER

SEASON: April 15 to October 14

RATE per acre foot season: \$29.68

MINIMUM SALE: \$ 198.86

During a drought declaration:

DROUGHT STAGE*:	MINIMUM SALE	RATE PER AF SEASON
2	\$ 236.04	\$ 35.23
3	289.84	43.26
4	331.72	49.51

* Per the Nevada Irrigation District Drought Contingency Plan

Definition: Water belonging to District which cannot be supplemented by an auxiliary supply and in District’s opinion cannot be considered a firm supply.

Determining Water Use: Sales of return intermittent flow irrigation water utilized by property owners shall be established in acre feet by District through pump ratings, sprinkler flow, actual diversions, acreage irrigated or any combination of the above methods as may be deemed appropriate to determine the amount of water to be used.

NOTE:

Add 25% to all charges above for existing accounts serving lands outside the District (amount rounded to the nearest dollar.)

Schedule 5-K

RAW INTERMITTENT FLOW IRRIGATION WATER

Intermittent flow is currently calculated using the volumetric rate show in Schedule 5-G/5-H divided by 9.07 (AF/Season) * 80% with a minimum sale equal to 6.7 AF

Recommendation:

Calculate the rate using the combined fixed fee plus volumetric rate divided by 9.07 * 80%, maintaining a minimum sale of 6.7 AF

2021 Calculated per AF	\$ 80.04
2021 Actual	\$ 29.68
Increase	170%

MINIMUM CHARGE:

2021 Calculated	\$ 536.27
2021 Actual	\$ 198.86

SCHEDULE OF RATES AND CHARGES
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-L
EFFECTIVE ~~JANUARY 01, 2020~~TBD

ENERGY PUMPING COST – MAGNOLIA #3

Energy Pumping Cost for irrigation (raw) water served from Magnolia #3 Pump System

Cost per M.I. per season: \$348.75

Monthly cost for customers on continuous service:

Miners Inches	1/4	1/2	1	1 ½	2
Monthly Rate:	\$ 14.53	29.06	43.59	58.12	72.66

~~Charge will be adjusted, after the end of irrigation season, based on actual water pumped by the District and current year pumping costs.~~

SCHEDULE OF RATES AND CHARGES
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-M
EFFECTIVE JANUARY 01, 2020

ENERGY PUMPING COST – EDGEWOOD

Energy Pumping Cost for irrigation (raw) water served from Edgewood Pumped System

Cost per M.I. per season: \$78.42

Monthly cost for customers on continuous service:

Miners Inches	1/4	1/2	1	1 ½	2
Monthly Rate:	\$ 3.27	6.54	9.80	13.07	16.34

SCHEDULE OF RATES AND CHARGES
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-R
EFFECTIVE JANUARY 01, 2021

MUNICIPAL WATER RATES

INSIDE DISTRICT

Treated Water:

4" Meter, Monthly Fixed Service Charge					\$733.36
4" Double Check Valve, Monthly Service Charge					\$28.50
Plus Volumetric Service Charge by Drought Stage:					
	1	2	3	4	
Per Acre Foot	\$681.71	\$842.89	\$1,045.44	\$1,387.39	
Per Hundred Cubic Foot (HCF)	1.57	1.94	2.40	3.19	

Raw Water:

Fixed Service Charge					\$570.99
Plus Volumetric Service Charge by Drought Stage:					
	1	2	3	4	
Per Acre Foot	\$296.79	\$352.26	\$432.58	\$495.14	

OUTSIDE DISTRICT

Treated Water:

Volumetric Service Charge by Drought Stage:					
	1	2	3	4	
Per Acre Foot	\$851.60	\$1,054.15	\$1,306.80	\$1,733.69	
Per Hundred Cubic Foot (HCF)	1.96	2.42	3.00	3.98	

6" Meter, Monthly Fixed Service Charge					\$1,833.40
6" Double Check Valve, Monthly Service Charge					\$56.00
Plus Volumetric Service Charge by Drought Stage:					
	1	2	3	4	
Per Acre Foot	\$851.60	\$1,054.15	\$1,306.80	\$1,733.69	
Per Hundred Cubic Foot (HCF)	1.96	2.42	3.00	3.98	

Raw Water

Fixed Service Charge					\$713.73
Plus Volumetric Service Charge by Drought Stage					
	1	2	3	4	
Per Acre Foot	\$370.99	\$440.33	\$540.73	\$618.92	

TREATED WATER, INSIDE DISTRICT**Recommendation:****FIXED FEE:**

Inside District treated water customers shall be charged a monthly fixed fee as shown on Schedule 4-EI/4FI

DCV:

Where applicable, Inside District treated water customers shall be charged a monthly fee as shown on Schedule 9-C/9-D

Volumetric fee: Increase over five years to be equivalent to treated water rates

	2021	2022	2023	2024	2025	2026
Volumetric Charge (AF)*	\$ 681.71	\$ 818.06	\$ 954.40	\$ 1,090.74	\$ 1,227.09	\$ 1,363.43
Volumetric Charge (HCF)*	\$ 1.565	\$ 1.88	\$ 2.19	\$ 2.50	\$ 2.82	\$ 3.13
INCREASE		20%	17%	14%	13%	11%

*Plus annual rate increase

NOTE: 1 AF = 325,851 Gallons = 435.6 HCF

TREATED WATER, OUTSIDE DISTRICT**Recommendation:****FIXED FEE:**

Outside District treated water customers shall be charged a monthly fixed fee as shown on Schedule 4-EO/4FO

DCV:

Where applicable, Inside District treated water customers shall be charged a monthly fee as shown on Schedule 9-C/9-D (Outside District)

Volumetric fee: Increase over five years to be equivalent to treated water rates

	2021	2022	2023	2024	2025	2026
Volumetric Charge (AF)*	\$ 851.60	\$ 1,021.92	\$ 1,192.24	\$ 1,362.56	\$ 1,532.88	\$ 1,703.20
Volumetric Charge (HCF)*	\$ 1.955	\$ 2.35	\$ 2.74	\$ 3.13	\$ 3.52	\$ 3.91
INCREASE		20%	17%	14%	13%	11%

*Plus annual rate increase

NOTE: 1 AF = 325,851 Gallons = 435.6 HCF

RAW WATER, INSIDE OR OUTSIDE DISTRICT

NO CHANGE

CAMPGROUND

Recommendation:

FIXED FEE:

Inside District treated water customers shall be charged a monthly fixed fee as shown on Schedule 4-EI/4FI

DCV:

Where applicable, Inside District treated water customers shall be charged a monthly fee as shown on Schedule 9-C/9-D

	2021	2022	2023	2024	2025	2026
Up to 5 HCF*	\$ 0.74	\$ 1.08	\$ 1.41	\$ 1.75	\$ 2.08	\$ 2.42
Over 5 HCF*	\$ 0.7825	\$ 1.25	\$ 1.72	\$ 2.19	\$ 2.66	\$ 3.13
INCREASE		45%	31%	24%	19%	16%

*Plus annual rate increase

SCHEDULE OF RATES AND CHARGES
 BY NEVADA IRRIGATION DISTRICT

SCHEDULE 6-A
 EFFECTIVE See below

**MISCELLANEOUS CHARGES
 RENDERING AND PAYMENT OF BILLS**

DESCRIPTION	CHARGE	EFFECTIVE DATE
Duplicate of Water Statement (per billing)	\$ 2.00	09/26/1984
Turn off Notification Fee (Inside District)	10.00	09/26/1984
Turn off Notification Fee (Outside District)	12.50	09/26/1984
Outside District Security Deposit	50.00	09/26/1984
Return Check Fee	25.00	02/11/2015
Public Utility Easement Abandonment	50.00	01/01/1993
Water Availability Letter	50.00	01/01/1994
Variance Request	175.00	01/01/1994
Photocopies, per page	0.10	02/11/2015
Records on Compact Disc (plus postage if applicable)	5.00	02/11/2015
Encroachment Permit - County	190.00	07/01/2007

SCHEDULE OF RATES AND CHARGES
 BY NEVADA IRRIGATION DISTRICT

SCHEDULE 7-A
 EFFECTIVE FEBRUARY 11, 2015

SPECIAL SERVICE CALL

Special Service Call fee inside District:	\$ 65.00
Special Service Call fee after normal working hours:	150.00
Special Service Call fee outside District:	81.00
Special Service Call fee after normal working hours, outside District	188.00

SCHEDULE 6-A

Miscellaneous Charges, Rendering and Payment of Bills

TURN OFF NOTIFICATION FEE

2019 Average daily delivery w/2 Customer Service Technicians (CST) 116 Notices

	Quantity	Hours Required	Hourly Rate w/Ben. & OH	LINE TOTAL
LABOR				
Customer Service Technician (CST)	2	9	\$ 85.82	1,544.76
Customer Service Rep II - Delivery Preperation	3	1.5	\$ 82.24	370.08
Customer Service Rep II - Delivery, Acct chgs	1	2	\$ 82.24	164.48
LABOR TOTAL				2,079.32
EQUIPMENT				
Light Duty Pickup Truck	2	9	\$ 25.30	455.40
TOTAL COST PER DAY TO DELIVER				2,534.72
CALCULATED RATE, COST PER DELIVERY (Daily cost/Notices Delivered)				11.00

2021 Rate	10.00	INCREASE/DECREASE	10%
------------------	-------	-------------------	-----

NOTE: In 2019 customer service delivered an average of 116 notices per week. This can generally be completed in one full day using two CST's

SCHEDULE 7-A

Special Service Call

SERVICE CALL				
LABOR (Positions that may perform this function)	Quantity	Hours Required	Hourly Rate w/Ben. & OH	LINE TOTAL
Customer Service Technician	1	1	\$ 85.82	85.82
Water Distribution Operator I	1	1	\$ 83.04	83.04
Water Distribution Operator II	1	1	\$ 88.22	88.22
Senior Water Distribution Operator	1	1	\$ 94.01	94.01
			Average Hourly Rate	87.77
EQUIPMENT				
Light Duty Pickup Truck	1	1	\$ 25.30	25.30
			CALCULATED RATE*	113.00
2021 Rate		65.00	INCREASE/DECREASE	74%

AFTER HOURS SERVICE CALL				
LABOR	Quantity	Hours Required	Hourly Rate w/Ben. & OH	LINE TOTAL
Customer Service Technician	1	2		
Water Distribution Operator II	1	2	\$ 88.22	176.44
Senior Water Distribution Operator	1	2	\$ 94.01	188.02
Average Rate (2 hour minimum)				182.23
EQUIPMENT				
Light Duty Pickup Truck	1	2	\$ 25.30	50.60
			CALCULATED RATE*	233.00
2021 Rate		150.00	INCREASE/DECREASE	55%

Note: Customer Service Technicians no longer respond to after hours service calls - eliminated from analysis

* Except as noted in section 6.01.01 of the District's Rules and Regulations

PRIVATE FIRE SERVICE – INSTALLATION CHARGES

The District will estimate all installation costs not associated with the vault and add this amount to the vault costs indicated below. The final cost to the applicant will be the summation of these two installation costs.

Vault installation includes all piping and appurtenances located within the vault, as well as the meter box.

Any condition, which, in the opinion of the District, will result in an estimated vault installation cost of more than twenty-five percent above those charges shown in this schedule, will be installed on an estimated cost basis.

Installations requiring a road boring and jacking will be completed on a time and material basis. A deposit, based on the District’s anticipated maximum cost will be due from the applicant prior to installation. The final cost to the applicant will not exceed the deposit.

SIZE	DETECTOR CHECK	DOUBLE DETECTOR CHECK
2"	N/A	N/A
3"	N/A	\$ 14,134.00
4"	\$ 12,582.00	15,490.00
6"	12,992.00	16,969.00
8"	14,320.00	22,941.00
10"	N/A	27,262.00

A detector check is installed unless backflow protection is required, as discussed in Section 9 of the Regulations. A double detector check is installed where backflow protection is needed.

The District will add to the basic vault installation fee any estimated costs related to encroachment permits including associated inspection charges as well as those related to any required right of ways.

NOTE:

A \$100.00 fee will be collected at the time an application for a private fire service is submitted to the District. This fee will compensate the District for time spent in estimating the installation cost. The fee will be waived if applicant, pursuant to section 8.05.02 of these Regulations, utilizes a private contractor to install the service and does not request an estimate.

Add 25% to all charges above for accounts serving lands outside the District.

¹⁹ Rules & Regulations Section 8.05

SCHEDULE 8-B

PRIVATE FIRE SERVICE - INSTALLATION CHARGES

Q: Does the District perform this service?

A: Per Business Services Technician, Shannon Wood, she has not facilitated any District constructed PFS installatons in the last 10 years

Q: Under what conditions will the District perform this work?

A: Unknown

Work will only be done if District's current workload permits

Q: Why are these uncommon?

A: The maintenance department has expressed that they do not have time and do not want to take work from local contractors.

Recommendation:

Amend section 8.05.02 of R & R and eliminate schedule 8-B - work could be done on time and material basis using project tracking.

8.05.02 Installation

Private fire services may be installed using ~~three~~two administrative processes, 1) ~~District installed, or 2)~~ Applicant installed using a Conveyance Agreement or ~~3~~2) Applicant installed using an Applicant Constructed Private Fire Service Letter Agreement.

~~District installed private fire services shall be at the Applicant's cost as shown in Schedule 8-B.~~

Private fire services may be installed as a facility incidental to a water line extension being installed by a Developer under the provisions of a Section 10.03 Conveyance Agreement. The Applicant may also make arrangements to construct a private fire service to be connected to an existing water main by using the Section 10.03 Conveyance Agreement process in cases where the estimated installation costs exceed \$15,000.

Fire services that are not incidental to a proposed water line extension project may be installed by the Applicant using a private contractor under the provisions of an Applicant Constructed Private Fire Service Letter Agreement, example of which is shown in Form 8-D. This method governs plans, specifications, construction, inspection, and other requirements for the Applicant and his contractor. These letter agreements and conveyance of the completed fire service are subject to approval by the General Manager.

DISTRICT CONSTRUCTED MAINLINE EXTENSIONS

The District will estimate all costs not included in the basic charge listed below and add this to the basic charge. The final cost to the applicant will be the summation of these two installation costs, however, unexpected costs associated with required right of ways or encroachment permits will be added to the total.

BASIC CHARGE

SIZE	COST/FOOT	ADD ON FOR SHORT LENGTHS
6"	\$ 110.90	\$ 31.00
8"	141.90	31.00
10"	177.40	31.00
12"	213.10	31.00

- Any condition, which, in the opinion of the District, will result in estimated costs of more than twenty-five percent of those charges shown in this Schedule, will be installed on an estimated cost basis. Pipe sizes in excess of twelve inches will be accomplished on an estimated cost basis.
- The basic charge includes all necessary pipe, air and vacuum valves, blow-offs, thrust block and engineering work. Not included in the basic charge are mainline valves, service settings, existing pipe tie-in, fire hydrant assemblies, right of way and all other items not specifically mentioned as covered under the basic charge.
- If total length of installation is less than 100 feet, add indicated amounts on to per-foot costs; however, the cost as so determined will not exceed the cost of a 100-foot extension.
- The District will determine, prior to start of construction, if adequate funds have been provided in the estimated cost to cover right of way purchases, associated legal and court fees, as well as to cover requirements mandated in any encroachment permits the District must obtain from other public entities for the mainline extension. The developer will be required to pay any of these additional costs prior to start of construction.

²³ Rules & Regulations Section 10.04

DISTRICT CONSTRUCTED MAINLINE EXTENSIONS

Q: Does the District perform this service?

A: Per Business Services Technician, Shannon Wood, she has facilitated two DCMLE in the last 10 year, one in 2012, one in 2013

Q: What are parameters for this work

A: Installation must be less than 300' in length
Work will only be done if District's current workload permits

Q: Why are these uncommon?

A: Customers can now apply for TSL rather than paying for short MLE.
The maintenance department has expressed that they do not have time and do not want to take work from local contractors.

Recommendation:

Amend/eliminate section 10.04 from R & R and eliminate schedule 10-A

~~10.04 DISTRICT CONSTRUCTED~~

~~10.04.01 General~~

~~The developer may request the District to install any extension consisting of a water main installation which is less than 300 feet in length. In such cases, the District may take on the responsibility of designing and constructing the extension depending on the District's current work load. rev. 1/26/11~~

~~10.04.02 Agreement~~

~~A written agreement between the developer and the District will be required. The agreement will contain clauses outlining the District's responsibility to prepare engineering plans and specifications and construct the extension, payment for construction, and other conditions as deemed necessary by the District. A letter agreement, not requiring Board approval, will be used if the estimated cost is equal to, or less than \$15,000. eff. 12/12/90; rev. 1/26/11~~

~~10.04.03 Construction Cost~~

~~Schedule 10-A of these Regulations will be used to determine the District's charge to design and construct the pipeline. The cost, as determined herein, will be stipulated in the agreement as the final cost to the developer for construction of the extension. rev. 1/26/11~~

~~10.04.04 Payment Schedule~~

~~At the time the agreement is signed, 50 percent of the construction cost must be paid to District. Actual construction will be scheduled only after the remaining 50 percent is received.~~