



City of Needles, California Employee Report

CITY COUNCIL/NPUA Board of Public Utilities Regular Special

Meeting Date: March 1, 2022

Title: Needles PPR Report – January 2022

Background: Current year comparison below;

**CURRENT YEAR:
January 2022**

	Current	YTD	% change prior year to current year YTD
Net Diversion	136.75	136.75	12%
Measured Returns	45.04	45.04	
Unmeasured Returns	30.89	30.89	
Consumptive Use	60.82	60.82	(based on consumptive use)

**PRIOR YEAR:
December 2020**

			% of PPR Remaining
Net Diversion	119.44	119.44	95%
Measured Returns	40.61	40.61	
Unmeasured Returns	25.10	25.10	
Consumptive Use	53.73	53.73	

*Based on CY21 Water Order of 2,528 diversion

The City of Needles water order for 2022 is;

PPR Limits	1,223	1,223
SCIA Agreement (145)	-	145
PPR Entitlement		1,078
LCWSP SCIA Limit		+ 527
2020 Consumption		1,605
2020 Diversion	2,261	

Fiscal Impact:

Recommended Action: No Action Needed – Information Only

Submitted By: Rainie Torrance

City Management Review: Rick

Date: 2-22-22

Approved: Not Approved: Tabled: Other:

Agenda Item: 5

CITY OF NEEDLES
 WATER ACCOUNTING
 MONTHLY CALCULATION SHEET
 CALENDAR YEAR 2022

Diversions - Pumped from Wells	Pumped (Acre-Feet)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Well #8	0.00												0.00
Well # 15 (formerly #10)	95.14												95.14
Well #11	0.00												0.00
Well #12	44.71												44.71
Sub-Total	139.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	139.85
Delivered to Ft. Mojave Indian Tribe (AZ)	0.22												0.22
Delivered to Ft. Mojave Indian Tribe (CA)	2.88												2.88
Sub-Total	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10
City of Needles' Net Diversion	136.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.75
Uses of Water													
Commercial Accounts	43.02												43.02
Residential Accounts	45.74												45.74
Golf Course	44.71												44.71
Parks, Ballparks, Cemetery	3.28												3.28
Total	136.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.75

CALENDAR YEAR 2022
WASTEWATER TREATMENT PLANT

	Mean Flow	# Days	A/F	A/F Return
Jan	0.488	31	46.43	45.04
Feb		28	0.00	0.00
Mar		31	0.00	0.00
Apr		30	0.00	0.00
May		31	0.00	0.00
Jun		30	0.00	0.00
Jul		31	0.00	0.00
Aug		31	0.00	0.00
Sep		30	0.00	0.00
Oct		31	0.00	0.00
Nov		30	0.00	0.00
Dec		31	0.00	0.00
TOTAL	0.488	365	46.43	45.04

Daily mean flow x #days mo X 1,000,000 = gal/mo
divided by 7.48 divided by 43560 = A/F mo

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CALENDAR YEAR 2022

Diversions													
Pumped from Wells	Pumped (Acre-Feet)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Well #8	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
Well # 15 (FKA #10)	95.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.14
Well #11	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
Well #12	44.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.71
Sub-Total	139.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	139.85
Delivered to Ft. Mojave Indian Tribe (AZ)	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
Delivered to Ft. Mojave Indian Tribe (CA)	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88
Sub-Total	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10
City of Needles' Net Diversion	136.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.75

Return and Other Credits													
Measured Returns													
Sewer Plant's Rapid Infiltration Ponds ¹	45.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.04
Unmeasured Returns													
Percolation from Golf Course ²	24.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.42
Percolation from Parks ³	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31
Percolation from Large Commercial Users ⁴	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03
System Losses ⁵	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
Septic Tank Returns ⁶	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.12
Total Unmeasured Returns	30.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.89
Total Returns	75.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.93

Footnotes:

- 1/Calculated as WWTP Total Discharge*0.97.
- 2/Calculated as Monthly Delivery to Golf Course*Efficiency-Monthly ET. Efficiency =0.9
- 3/Calculated as Delivery to Parks,Ballparks,Cemetery*0.40.
- 4/Calculated as 24% of Deliveries to Commercial Accounts*0.10.
- 5/Calculated as City of Needles' Net Diversions-Total Uses.
- 6/Total Annual UMRF from septic tanks = 50; assumes 210 septic units*0.6 AF/yr*0.40 (where 0.40 = UMRF Factor). Annual volume is distributed monthly using a monthly distribution factor.

Consumptive Use													
Diversion	136.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.75
Measured Returns	45.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.04
Unmeasured Returns	30.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.89
Consumptive Use	60.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.82