



INVERNESS PUBLIC UTILITY DISTRICT

FIRE DEPARTMENT • WATER SYSTEM

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MARCH 2024 - WATER SYSTEM REPORT

Water Quality

(* GPD = gallons per day; gpm = gallons per minute; ppm= parts per million

[**MARCH 2024 AVERAGE 51,816 gal/day = 36.0 gpm**]

All sources are filtered by first Ultra and then Nano filters; chlorine and turbidity correct continuously; no positive coliform bacteria samples from distribution sample grabs. Samples of distribution water are tested twice monthly and influent raw water sources are being collected once a month for lab analysis of coliform content.

Average Chlorine (CL₂) dose at F1→ 0.65 ppm; Average CL₂ dose at F3→ approximately 0.7 ppm

Major Activities and Events

1. Monthly reports sent to CA RWQCB DHS / SWRCB Drinking Water Division
2. TOC (Total Organic Carbon) grabs from first, second and third valley sources taken for laboratory analyses
3. Regular flushing of 4" iron main on Via de la Vista & Escondido 2" PVC lines
4. F1 CIP cleaning of Ultra B unit completed/ CIP cleaning of both Nano units A & B
5. F3 CIP cleaning of Ultra unit, very dirty
 - o SCADA radio communication to F3 working but inconsistent , still use Sea Haven telemetry to control F3 pump
 - o Arkal (prefilter) on Ultra unit still clogging. Increased frequency of flushing on HMI. Also cleaned prefilter discs several times.
6. Re-tarped tank wood being stored at Conner tank site
7. 1st and 2nd valley plus Perth fire roads clearing trees and water bars continues
8. Perth fire road cleared of fallen trees/ ongoing clearing of trees and water bars.
9. L1 large tree has fallen across road/trail near pump shed.
10. L2 access road (2nd valley Lower intake and Well 4): resident had installed fence on our access road, impeding our access. J. Fox & GM talked with them. Although they agreed to relocate on other side of creek, it was only moved a few feet and is still on our easement side of the creek and will impede our access for equipment.
11. Sea Haven tank #1 leaks have been greatly reduced.
12. Have start identifying type of material for each Service in district, per SWRCB/RWQCB requirements which specify that we identify pipe material on both sides of each water meter. Installing gopher protection mesh at same time (will make meter reading more efficient)
13. Several customer leaks reported / new meter installed customer flume device. Replaced yet another blue-poly service with copper (leak on heather lane, very near one we replaced several months ago)



Inverness Public Utility District
Monthly Water System Report

MARCH 2024

Prepared by Ken Fox, senior operator

MARCH	Rainfall (inches)							
March Rainfall "	2024	2023	2022	2021	2020	2019	2018	2017
Total for Month	6.19	12.49	1.74	2.31	2.21	8.13		
Year To Date (7/01 →4/01)	38.27	46.26	27.20	15.21	19.24	46.74		
Average yearly since 1925	37.39"	37.26	7.32	37.57	37.72			

(* GPD = gallons per day; gpm = gallons per minute;

End of Month Stream Flow Measurements				
March	2024		2023	
Diversions	<i>gpm*</i>	GPD*	<i>gpm</i>	GPD
1st Valley Upper Intakes			March	March
D1	190	273,600	190	273,600
D2	215	309,600	270	388,800
D3	200	288,000	220	316,800
605			680	
2nd Valley Upper Intakes				
D4	200	288,000	210	302,400
D5	220	316,800	200	288,000
D6	220	316,800	260	374,400
640			670	
3rd Valley Upper Intakes				
D7	230	331,200	220	316,800
D8	45	64,800	50	72,000
275			270	
Totals	1,520	2,188,800	1,620	2,332,800

Recent 3-month EOM Streamflow Trends			
→	Feb-24	Jan-24	Dec-23
<i>gpm</i>	1,720	1,130	740
GPD	2,476,800	1,627,200	1,065,600

Sources Used: March	2024	2023
1st Valley Upper Intakes	84%	82%
2nd Valley Upper intakes	0%	
3rd Valley Upper intakes	16%	18%
1st Valley Lower Intake (L1)		
2nd Valley Lower intake		
Wells. (W1, W3, W4, etc.)		
Total	100.0%	100%

Distribution System Usage / # days → 31			31	
Distribution Zone	Mar-24		Mar-23	
	Gallons	% of Use	% of Use	
Colby	524,300	33%	47%	
Tenney	801,200	50%	32%	
Conner	28,100	2%	2%	
Stockstill	120,900	8%	11%	
Seahaven	131,800	8%	8%	
Totals	1,606,300	100%	#####	100%
Monthly Averages →	GPD	<i>gpm</i>	GPD	<i>gpm</i>
	51,816	36.0	48,087	33.4