

# Water Operators Report June 2023

Prepared by: Dave Shepherd



## Water consumption

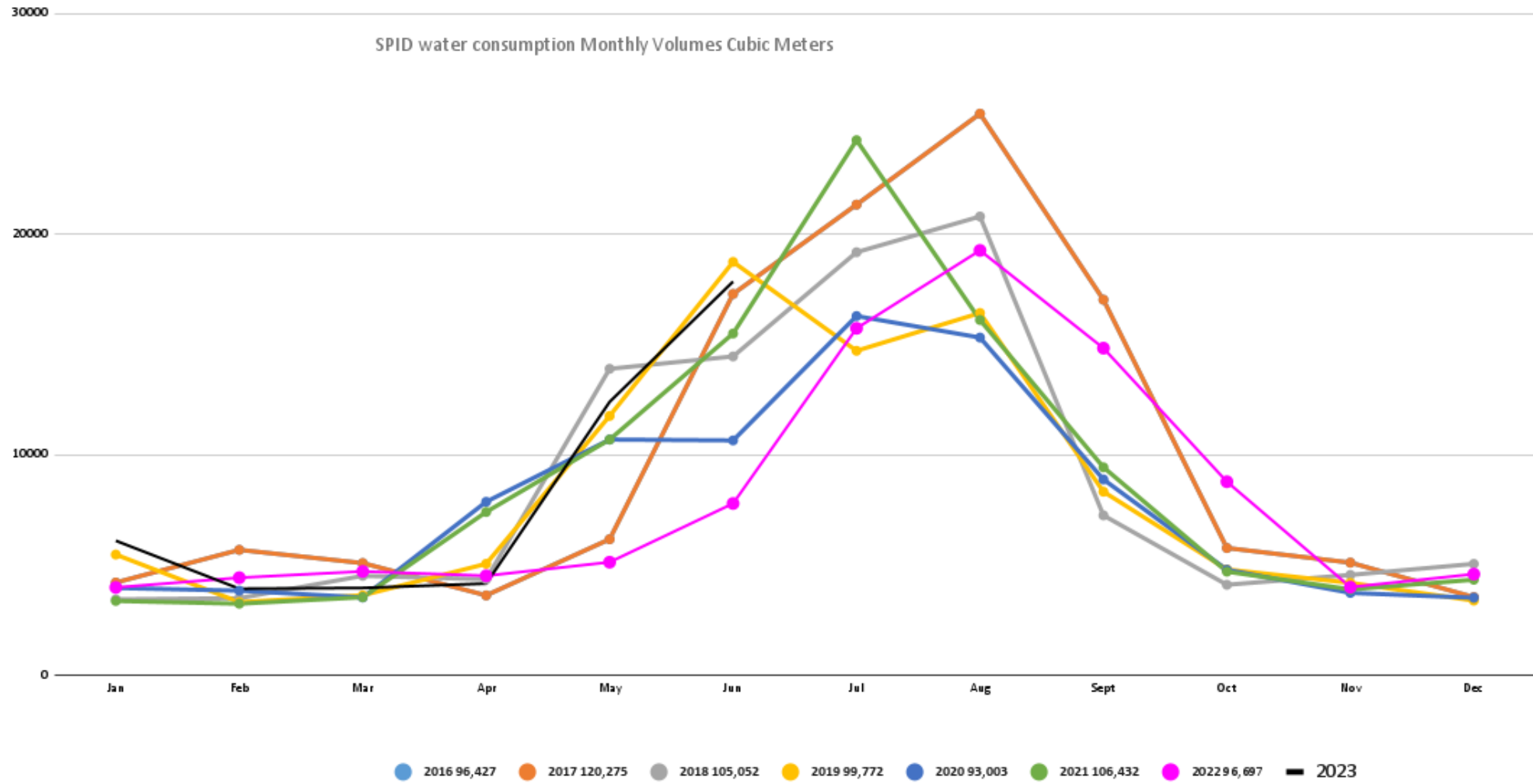
<b>Monthly Consumption</b>	17874 M <sup>3</sup>	28	638.36 M <sup>3</sup>	Daily Average
<b>Previous year 2022-06</b>	7786 M <sup>3</sup>	28	278.07 M <sup>3</sup>	Daily Average
			<b>129.57%</b>	
<b>Vol Well #1 since 19 Jan 2019</b>	286.88 M <sup>3</sup>			
<b>Max Flow for month</b>	1736.1 L/Min	<b>Min Flow for month</b>	99.1 L/Min (leak rate)	
<b>Time and Date</b>	24/06/2023 07:08		29/06/2023 22:38	
<b>Pump hours</b>	<b># 2</b> 0	<b># 3</b> 87	<b>#4</b> 595	
<b>Previous month hrs</b>	0	1	670	

## VIHA Samples

Activity	Date	Location	Sample type	Result	
<b>Monthly</b>	12/06/2023	7941 Park	Drinking water	✓	Sent to VIHA
<b>Sample /testing</b>		7588 Ships Pt.	Drinking water	✓	
		7576 Tozer	Drinking water	✓	
		Well 2	Raw	✓	
		Well 3	Raw	✓	
		Well 4	Raw	✓	

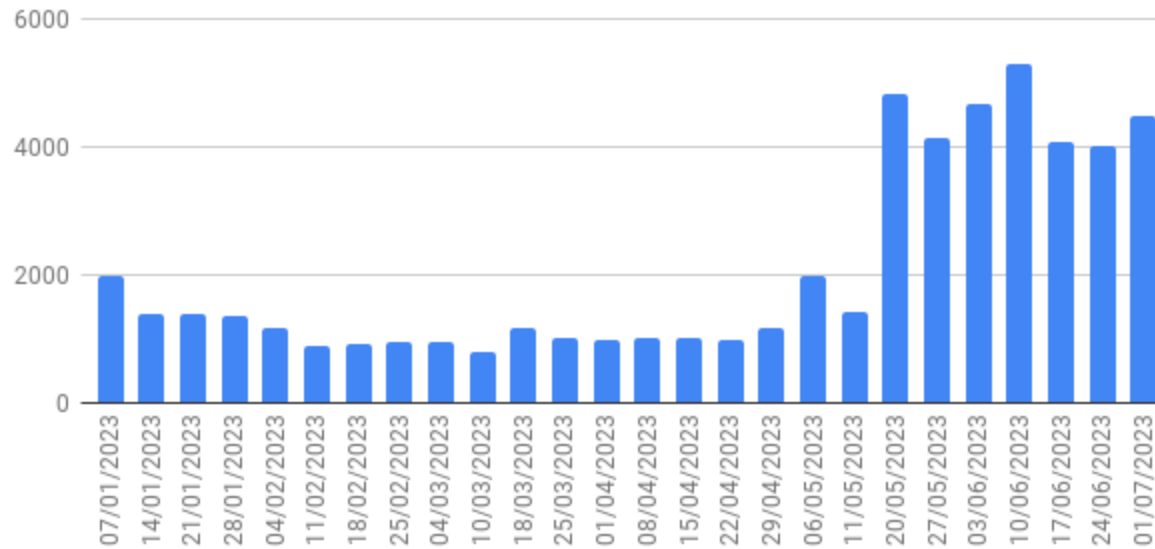
## Operations/Maintenance

	<b>Weekly:</b>	
	Meter readings, CL residuals (5 locations) incl flushing station, run pump 1 collect well levels data	
	Check CL tank level and add accordingly	
	<b>Monthly:</b>	
	Prep chain of custody report and sample bottles Collect VIHA samples and deliver to office	
	Collect end of month Data create report, replace CL membrane, order chlorine as needed	
	Attend WTC and SPID Meetings	
03/06/2023	Design and purchase fittings for Pump house fire protection, Build sprinkler mount and install connect to Wi-Fi and check operation, send link to Mike and Dave H	
06/06/2023	update water operator job description, edit time sheet and expense form	
07/06/2023	BC one call for SPR/little way!! Twice!! Responded with infrastructure info and not our jurisdiction	
09/06/2023	John Lowe and Keith now have keys to control room and have been shown how to reset the VFD and also how to manually turn on the fire protection sprinkler	
10/06/2023	repair small CL leak on discharge hose, weekly consumption reached 5292 cubic meters (trigger point got stage 3)	
11/06/2023	Pump House call out "#4 Low well level" this is a first adjusted trigger point from 1m to 0m to buy us a little time to get PLC program adjusted. (as discussed with MM) 1) change trigger point for the 4-3 switch over from 500LPM to 400 LPM 2) Have #3 switch on in case of problem with #4 (#2 was programed previously) and vise versa	
13/06/2023	Update BV labs customer portal password and send well #2 water scan results to BT	
15/06/2023	add sample hose to pump house for ease of taking weekly CL residuals, obtain short fire hose for defuser	
16/06/2023	deliver 7x CL carboys from back of office!! Call supplier and ask for driver to be brought up to speed	
21/06/2023	Load new PLC program with MM and test operation, not conclusive will test again As pumps oscillating back and forth unsure if sweet spot of demand or induced by prig. Change! monitoring. The drawdown on #4 has decreased due to switching change from 500LPM to 400	
25/06/2023	Pumps 4 and 3 switching way more! suspect self induced oscillation re program change continuous pump switching creates more stress on system, small hammer for each transition and the high freq switching not good for the pumps! It has however helped with the low water issue and we have confirmed that #3 does switch on if #4 shuts down for any reason (VFD protection or low water for example)	
27/06/2023	Respond to pressure complaint on SPR, checked static and dynamic psi, 6psi drop, fill 20l bucket curb & outside tap 30sec/60sec recommend get a plumber in as problem on property PRV clogged??	

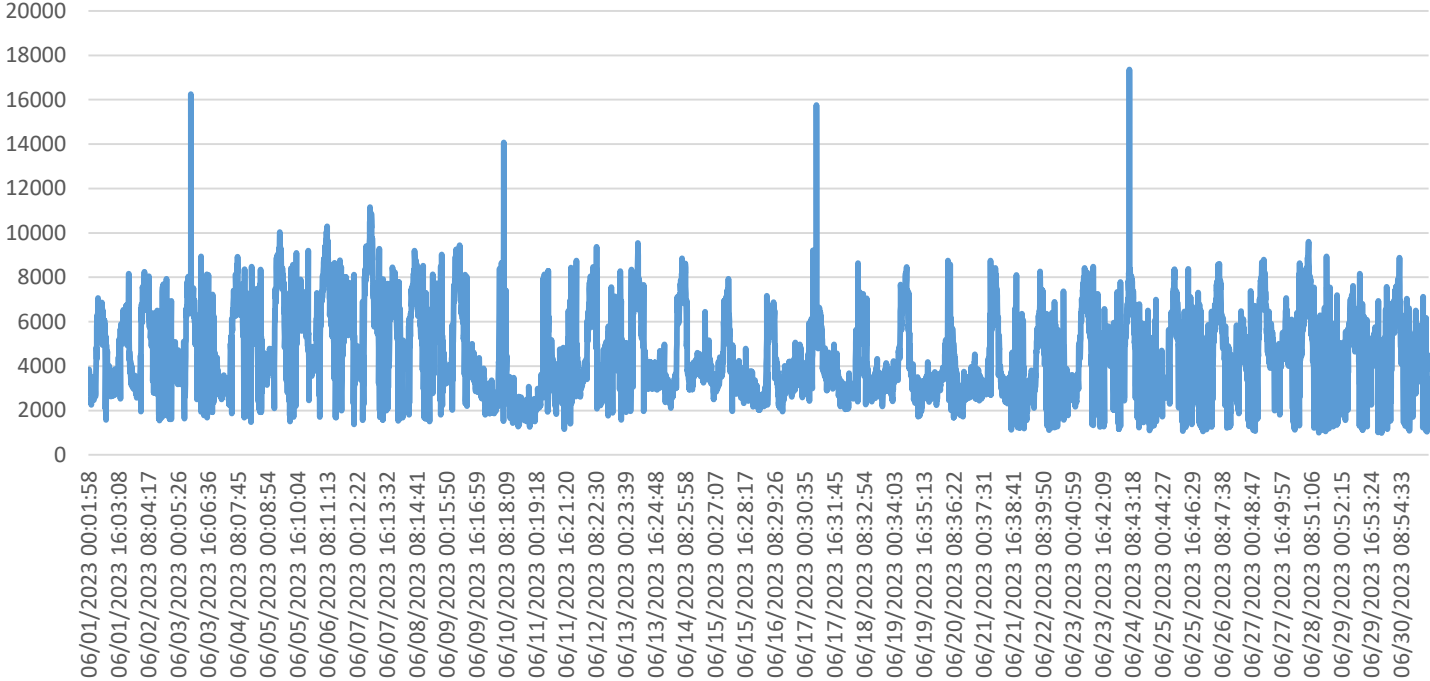


## 2023 Weekly consumption cubic meters

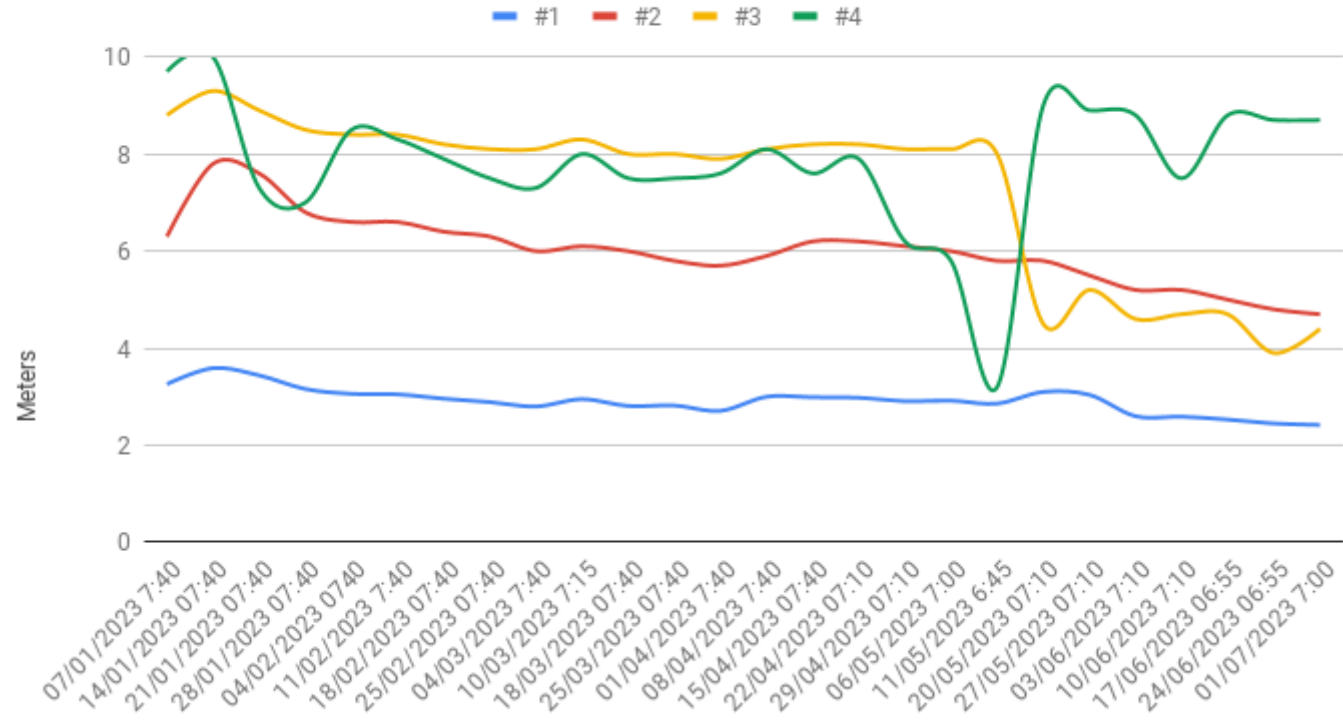
Conservation Trigger points Stage 2: 2500 & Stage 3: 5000



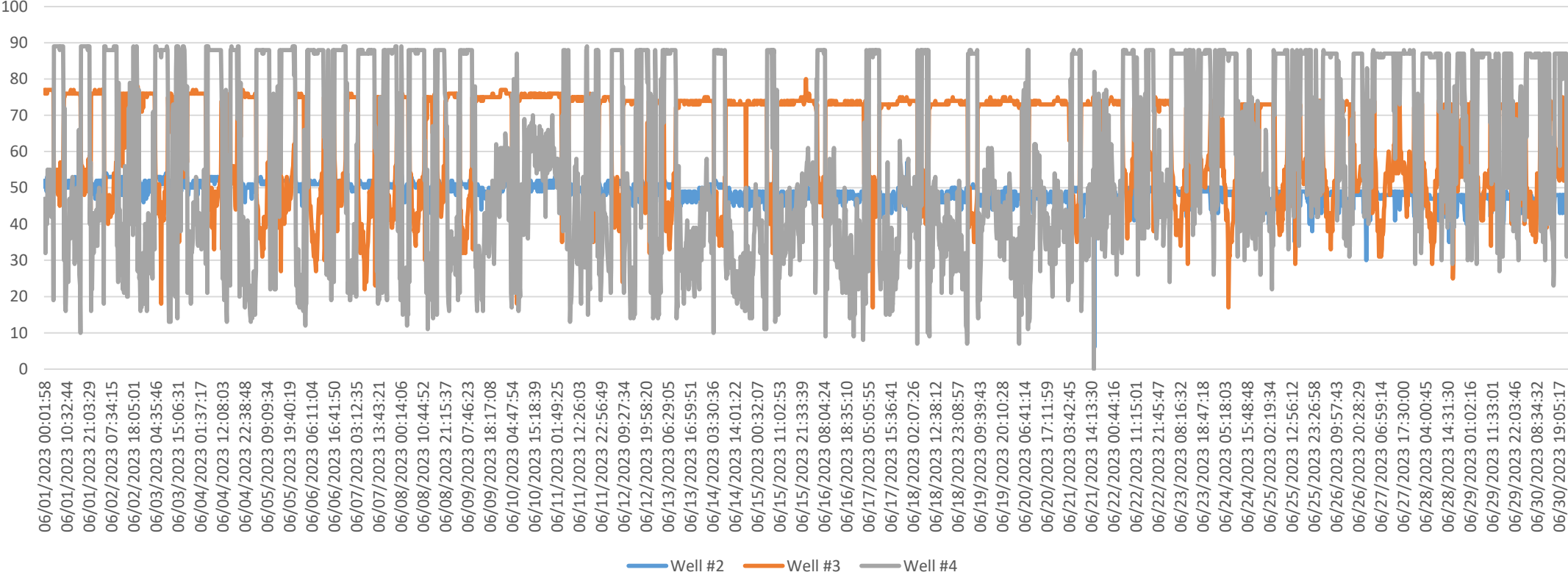
June 2023 Flow LPM x 10



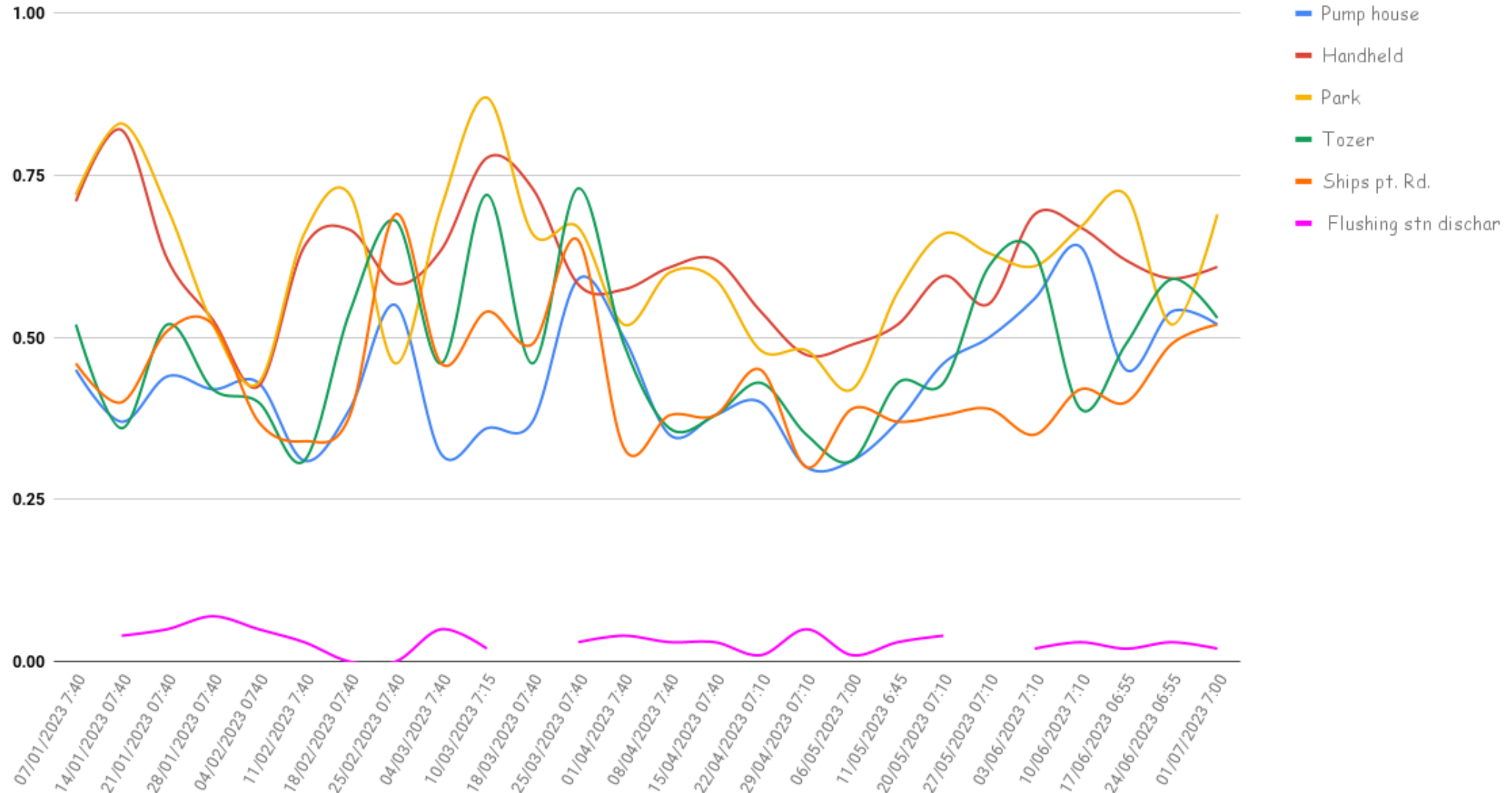
### 2023 weekly well levels



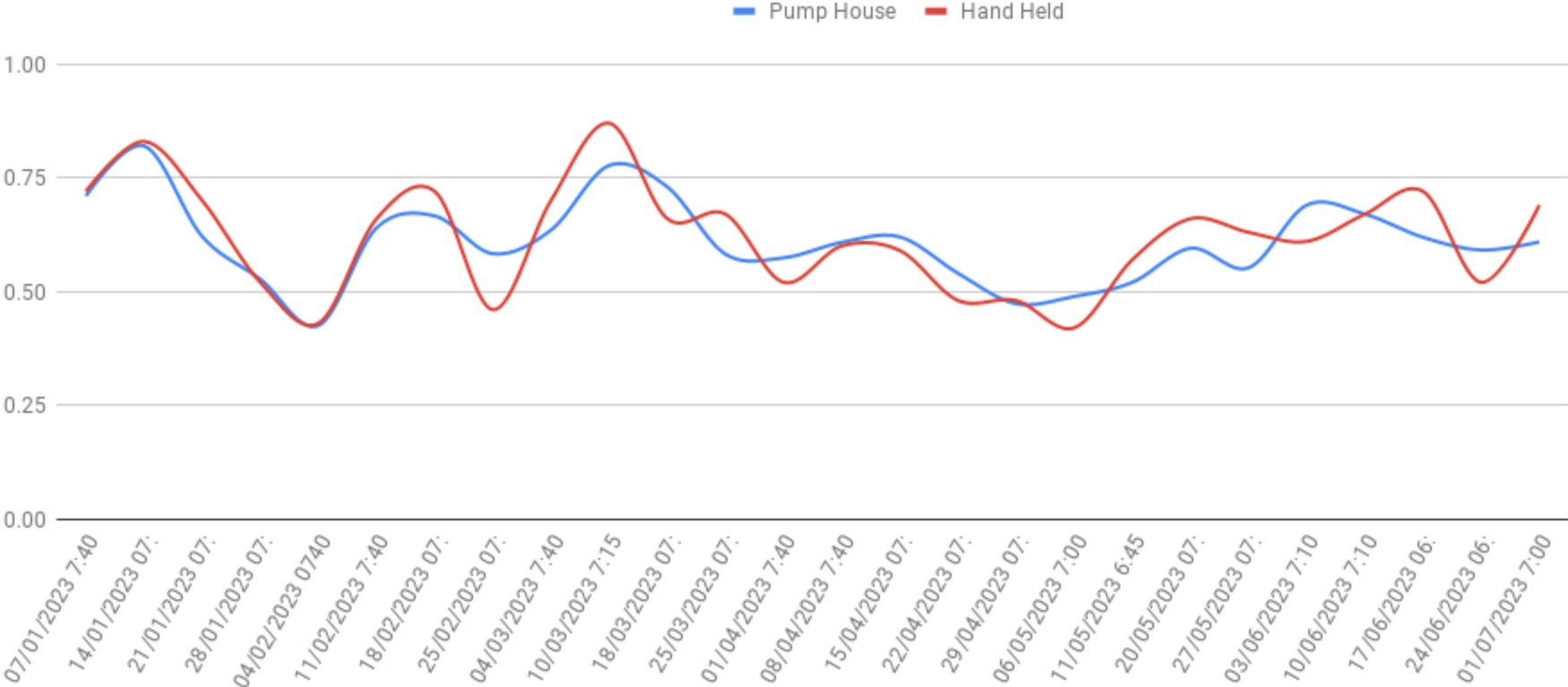
### June 2023 Well Levels m x 10



2023 Residual Chlorine weekly testing PPM (parts per million)



# Chlorine Hand Held vs Pump House

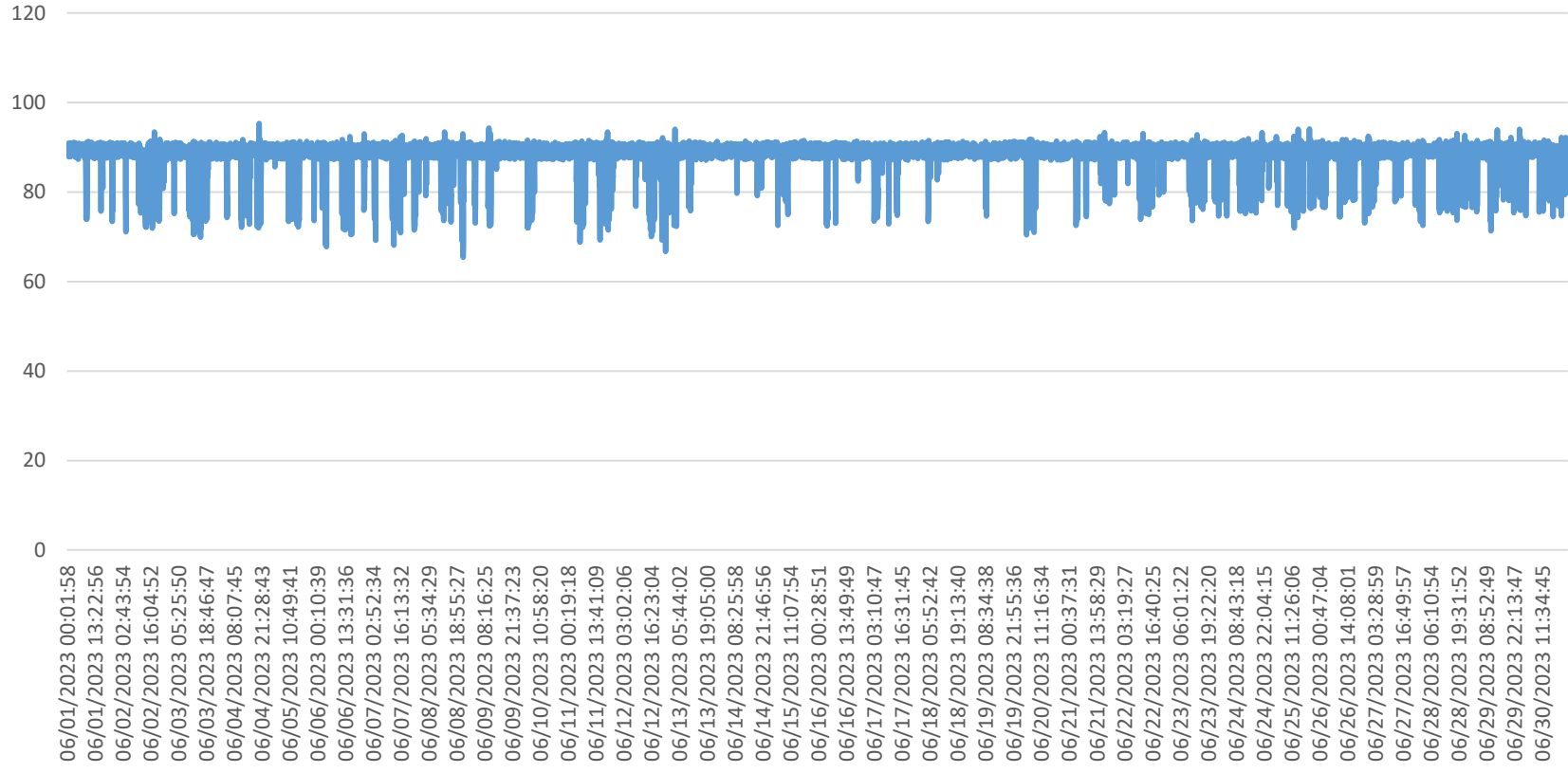




### June 2023 Pumphouse Chlorine x1000 & pHx10



# June 2023 Pumphouse discharge pressure PSI



# Well #1 and Well #2 2019 to June 2023

