

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: January 2015
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
1/31/2015 =	29739690	21084340
1/1/2015=	<u>26837400</u>	<u>17850110</u>
Totals in Gallons	2902290	3234230

Lift Station 5 Volume 2902290 + 3234230 = 6136520 Gallons

Monthly Average Daily Flow $\frac{6136520}{31} = \underline{197952}$ Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
1/31/2015 =	1999.1	1932.7
1/1/2015=	<u>1918.7</u>	<u>1853.9</u>
Totals in Hours	80.4	78.8

	Pump 1	Pump 2
Hours x	80.4	78.8
GPM average x	630.0	644
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	3039120	3044832

Percent Difference

Pump 1 $\frac{3039120 - 2902290}{2902290} = 4.7\%$ calculated volume is greater than metered volume

Pump 2 $\frac{3044832 - 3234230}{3234230} = -5.9\%$ calculated volume is less than metered volume

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: February 2015
Number of Days in Month: 28

Metered Volumes

Date	Pump 1	Pump 2
2/28/2015 =	32375410	24206270
2/1/2015=	<u>29739690</u>	<u>21084340</u>
Totals in Gallons	2635720	3121930

Lift Station 5 Volume 2635720 + 3121930 = 5757650 Gallons

Monthly Average Daily Flow $\frac{5757650}{28} = \underline{205630}$ Gallons/Day

Calculated Volumes

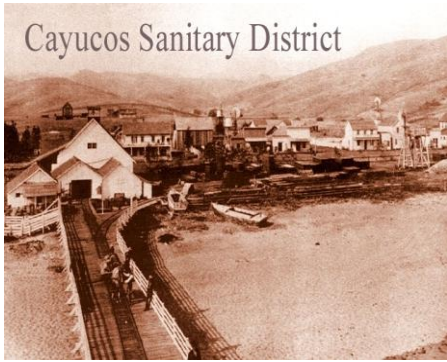
	Pump 1	Pump 2
2/28/2015 =	2071.0	2009.2
2/1/2015=	<u>1999.1</u>	<u>1932.7</u>
Totals in Hours	71.9	76.5

	Pump 1	Pump 2
Hours x	71.9	76.5
GPM average x	618.0	670
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2666052	3075300

Percent Difference

Pump 1 $\frac{2666052 - 2635720}{2635720} = 1.2\%$ calculated volume is greater than metered volume

Pump 2 $\frac{3075300 - 3121930}{3121930} = -1.5\%$ calculated volume is less than metered volume



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Cayucos Sanitary District Monthly Flow Report for February 2015

Total Volume Recorded at Lift Station 5: 5,757,650 Gallons

Monthly Average Daily Flow: 205,630 Gallons

Reporting Dates: February 1 through 28
Number of Days: 28

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 13gpd

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 2,635,720 Gallons
Meter 2 = 3,121,930 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: March 2015
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
3/31/2015 =	35164020	27225470
3/1/2015=	<u>32375410</u>	<u>24206270</u>
Totals in Gallons	2788610	3019200

Lift Station 5 Volume 2788610 + 3019200 = 5807810 Gallons

Monthly Average Daily Flow $\frac{5807810}{31} = \underline{187349}$ Gallons/Day

Calculated Volumes

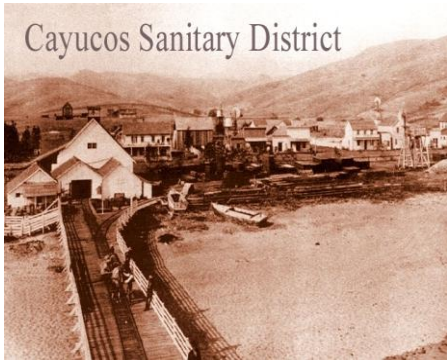
	Pump 1	Pump 2
3/31/2015 =	2147.0	2082.0
3/1/2015=	<u>2071.0</u>	<u>2009.2</u>
Totals in Hours	76.0	72.8

	Pump 1	Pump 2
Hours x	76.0	72.8
GPM average x	618.0	670
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2818080	2926560

Percent Difference

Pump 1 $\frac{2818080 - 2788610}{2788610} = 1.1\%$ calculated volume is greater than metered volume

Pump 2 $\frac{2926560 - 3019200}{3019200} = -3.1\%$ calculated volume is less than metered volume



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Cayucos Sanitary District Monthly Flow Report for March 2015

Total Volume Recorded at Lift Station 5: 5,807,810 Gallons

Monthly Average Daily Flow: 187,349 Gallons

Reporting Dates: March 1 through 31
Number of Days: 31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 13gpd

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 2,788,610 Gallons
Meter 2 = 3,019,200 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: April 2015
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
4/30/2015 =	37817520	30125820
4/1/2015=	<u>35164020</u>	<u>27225470</u>
Totals in Gallons	2653500	2900350

Lift Station 5 Volume 2653500 + 2900350 = 5553850 Gallons

Monthly Average Daily Flow $\frac{5553850}{30} = \underline{185128}$ Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
4/30/2015 =	2219.3	2154.4
4/1/2015=	<u>2147.0</u>	<u>2082.0</u>
Totals in Hours	72.3	72.4

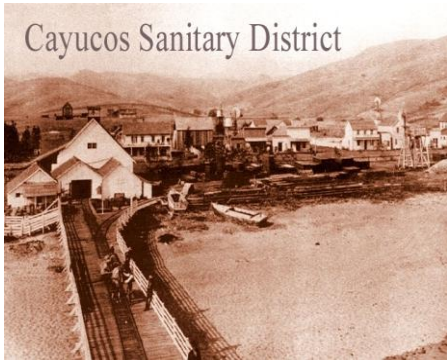
flow numbers + calibration reset		
	pump1	pump 2
4.17.15	36682200	28916810
after cal +	<u>1135320</u>	<u>1209010</u>
month total	37817520	30125820

	Pump 1	Pump 2
Hours x	72.3	72.4
GPM average x	618.0	670
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2680884	2910480

Percent Difference

Pump 1 $\frac{2680884 - 2653500}{2653500} = 1.0\%$ calculated volume is greater than metered volume

Pump 2 $\frac{2910480 - 2900350}{2900350} = 0.3\%$ calculated volume is greater than metered volume



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Cayucos Sanitary District Monthly Flow Report for April 2015

Total Volume Recorded at Lift Station 5: 5,553,850 Gallons

Monthly Average Daily Flow: 185,128 Gallons

Reporting Dates: April 1 through 30
Number of Days: 30

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 13gpd

4/17/15 Jensen instruments calibrated the flow meters @ lift station 5

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 2,653,500 Gallons
Meter 2 = 2,900,350 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: May 2015
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
5/31/2015 =	3731340	4051160
5/1/2015=	<u>1068220</u>	<u>1139540</u>
Totals in Gallons	2663120	2911620

Lift Station 5 Volume 2663120 + 2911620 = 5574740 Gallons

Monthly Average Daily Flow $\frac{5574740}{31} = \underline{179830}$ Gallons/Day

Calculated Volumes

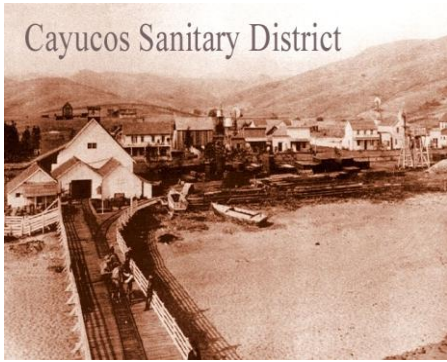
	Pump 1	Pump 2
5/31/2015 =	2291.0	2226.3
5/1/2015=	<u>2219.3</u>	<u>2154.4</u>
Totals in Hours	71.7	71.9

	Pump 1	Pump 2
Hours x	71.7	71.9
GPM average x	619.0	675
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2662938	2911950

Percent Difference

Pump 1 $\frac{2662938 - 2663120}{2663120} = 0.0\%$ calculated volume is less than metered volume

Pump 2 $\frac{2911950 - 2911620}{2911620} = 0.0\%$ calculated volume is greater than metered volume



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Cayucos Sanitary District Monthly Flow Report for May 2015

Total Volume Recorded at Lift Station 5: 5,574,740 Gallons

Monthly Average Daily Flow: 179,830 Gallons

Reporting Dates: May 1 through 31
Number of Days: 31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 13gpd

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:
Meter 1 = 2,663,120 Gallons
Meter 2 = 2,911,620 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: June 2015
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
6/30/2015 =	6578550	6860440
6/1/2015=	<u>3731340</u>	<u>4051160</u>
Totals in Gallons	2847210	2809280

Lift Station 5 Volume 2847210 + 2809280 = 5656490 Gallons

Monthly Average Daily Flow $\frac{5656490}{30} = \underline{188550}$ Gallons/Day

Calculated Volumes

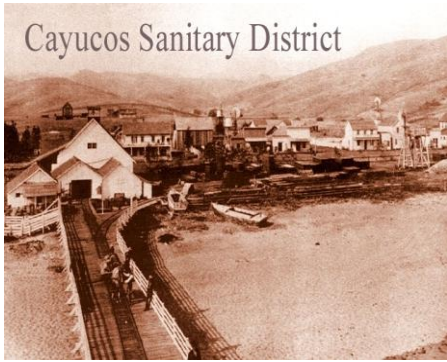
	Pump 1	Pump 2
6/30/2015 =	2375.3	2301.2
6/1/2015=	<u>2291.0</u>	<u>2226.3</u>
Totals in Hours	84.3	74.9

	Pump 1	Pump 2
Hours x	84.3	74.9
GPM average x	563.0	625
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2847654	2808750

Percent Difference

Pump 1 $\frac{2847654 - 2847210}{2847210} = 0.0\%$ calculated volume is greater than metered volume

Pump 2 $\frac{2808750 - 2809280}{2809280} = 0.0\%$ calculated volume is less than metered volume



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Cayucos Sanitary District Monthly Flow Report for June 2015

Total Volume Recorded at Lift Station 5: 5,656,490 Gallons

Monthly Average Daily Flow: 188,550 Gallons

Reporting Dates: June 1 through 31
Number of Days: 30

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 20gpd

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:
Meter 1 = 2,847,210 Gallons
Meter 2 = 2,809,280 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: September 2015
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
9/30/2015 =	15146980	17484010
9/1/2015=	<u>12807360</u>	<u>14588340</u>
Totals in Gallons	2339620	2895670

Lift Station 5 Volume 2339620 + 2895670 = 5235290 Gallons

Monthly Average Daily Flow $\frac{5235290}{30} = \underline{174510}$ Gallons/Day

Calculated Volumes

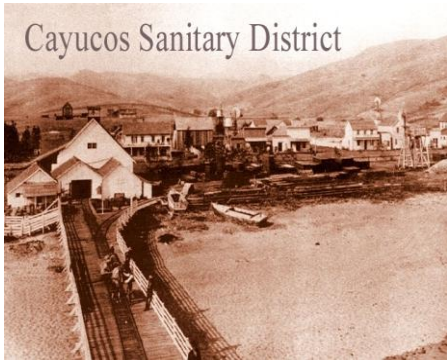
	Pump 1	Pump 2
9/30/2015 =	2641.3	2556.3
9/1/2015=	<u>2568.2</u>	<u>2484.8</u>
Totals in Hours	73.1	71.5

	Pump 1	Pump 2
Hours x	73.1	71.5
GPM average x	589.0	651
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2583354	2792790

Percent Difference

Pump 1 $\frac{2583354 - 2339620}{2339620} = 10.4\%$ calculated volume is greater than metered volume

Pump 2 $\frac{2792790 - 2895670}{2895670} = -3.6\%$ calculated volume is less than metered volume



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Cayucos Sanitary District Monthly Flow Report for September 2015

Total Volume Recorded at Lift Station 5: 5,235,290 Gallons

Monthly Average Daily Flow: 174,510 Gallons

Reporting Dates: September 1 through 30
Number of Days: 30

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 20gpd
Wednesday August 26th staff plumbed in a by pass pipe from the force
main leaving Lift Station 5 on line two back into the wet well, this was
done to insure our lab sampler was getting fresh waste water to sample.
This configuration coupled with our combined pump use of line 2 has
created the discrepancy seen in this report. This sampling procedure
will be in effect until Thursday September 3rd 2015.

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 2,339,620 Gallons
Meter 2 = 2,895,670 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: October 2015
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
10/31/2015 =	17647550	20139780
10/1/2015=	15146980	17484010
Totals in Gallons	<u>2500570</u>	<u>2655770</u>

Lift Station 5 Volume 2500570 + 2655770 = 5156340 Gallons

Monthly Average Daily Flow $\frac{5156340}{31} = \underline{166334}$ Gallons/Day

Calculated Volumes

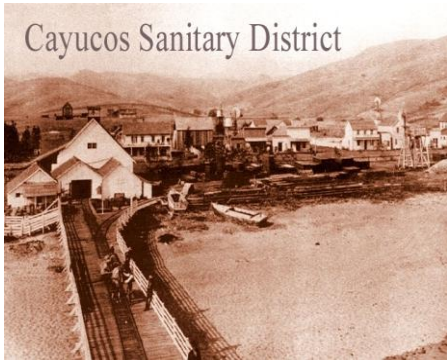
	Pump 1	Pump 2
10/31/2015 =	2716.5	2627.1
10/1/2015=	2641.3	2556.3
Totals in Hours	<u>75.2</u>	<u>70.8</u>

	Pump 1	Pump 2
Hours x	75.2	70.8
GPM average x	589.0	651
Minutes/Hr	60	60
Total Gallonage	<u>2657568</u>	<u>2765448</u>

Percent Difference

Pump 1 $\frac{2657568 - 2500570}{2500570} = 6.3\%$ calculated volume is greater than metered volume

Pump 2 $\frac{2765448 - 2655770}{2655770} = 4.1\%$ calculated volume is greater than metered volume



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Cayucos Sanitary District Monthly Flow Report for October 2015

Total Volume Recorded at Lift Station 5: 5,156,340 Gallons

Monthly Average Daily Flow: 166,334 Gallons

Reporting Dates: October 1 through 31
Number of Days: 31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 20gpd

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 2,500,570 Gallons
Meter 2 = 2,655,770 Gallons

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: November 2015
Number of Days in Month: 30

Metered Volumes

Date	Pump 1	Pump 2
11/30/2015 =	20318400	22985120
11/1/2015=	<u>17647550</u>	<u>20139780</u>
Totals in Gallons	2670850	2845340

Lift Station 5 Volume 2670850 + 2845340 = 5516190 Gallons

Monthly Average Daily Flow $\frac{5516190}{30} = \underline{183873}$ Gallons/Day

Calculated Volumes

	Pump 1	Pump 2
11/30/2015 =	2796.0	2702.6
11/1/2015=	<u>2716.5</u>	<u>2627.1</u>
Totals in Hours	79.5	75.5

	Pump 1	Pump 2
Hours x	79.5	75.5
GPM average x	589.0	651
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2809530	2949030

Percent Difference

Pump 1 $\frac{2809530 - 2670850}{2670850} = 5.2\%$ calculated volume is greater than metered volume

Pump 2 $\frac{2949030 - 2845340}{2845340} = 3.6\%$ calculated volume is greater than metered volume

Cayucos Sanitary District
Lift Station 5 Flow Calculations

Reporting Month/Year: December 2015
Number of Days in Month: 31

Metered Volumes

Date	Pump 1	Pump 2
12/31/2015=	22939040	25821620
12/1/2015=	<u>20318400</u>	<u>22985120</u>
Totals in Gallons	2620640	2836500

Lift Station 5 Volume 2620640 + 2836500 = 5457140 Gallons

Monthly Average Daily Flow $\frac{5457140}{31} = \underline{176037}$ Gallons/Day

Calculated Volumes

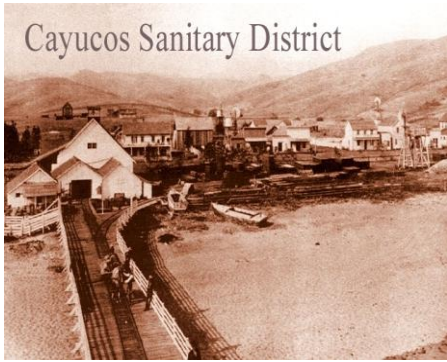
	Pump 1	Pump 2
12/31/2015=	2872.1	2776.3
12/1/2015=	<u>2796.0</u>	<u>2702.6</u>
Totals in Hours	76.1	73.7

	Pump 1	Pump 2
Hours x	76.1	73.7
GPM average x	589.0	651
Minutes/Hr	<u>60</u>	<u>60</u>
Total Gallonage	2689374	2878722

Percent Difference

Pump 1 $\frac{2689374 - 2620640}{2620640} = 2.6\%$ calculated volume is greater than metered volume

Pump 2 $\frac{2878722 - 2836500}{2836500} = 1.5\%$ calculated volume is greater than metered volume



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Cayucos Sanitary District Monthly Flow Report for December 2015

Total Volume Recorded at Lift Station 5: 5,457,140 Gallons

Monthly Average Daily Flow: 176,037 Gallons

Reporting Dates: December 1 through 31
Number of Days: 31

Rainfall Estimate:

Comments: Current CAN-17 set to ~ 15gpd

Reporting Period Volumes for Meters 1 and 2 at Lift Station 5:

Meter 1 = 2,620,640 Gallons
Meter 2 = 2,836,500 Gallons