Paul R. Noland WWTP, NPDES Permit Number: AR00020010, AFIN #:72-00781, daily effluent flow is calculated from Noon-Noon each day. Flow meter records totalizer in 1,000 gallon increments. For instance:

12/27/15 12:00 pm 311315 totalizer - 12/26/15 12:00 pm 207585 totalizer

= 103730 Then instrument recording increment multiplier is added 103730*0.0001 = 12/28/15, 10.373 MGD.

Paul R. Noland WWTP is equipped with 170 million gallon capacity storage ponds and a Bioprocess Flow Valve which is operated to manage how much flow is allowed to the bio-reactor. Influent flow not allowed to the bio-reactor is diverted to storage ponds. If the influent was 22 mgd and the bioprocess flow was set at 10 mgd for the bio-reactor the other 12 mgd is diverted to storage ponds for later handling/treatment.

Beginning on 12/27/15 at 15:50 the water level in the receiving stream rose enough to slow plant effluent discharge velocity and submerge the flow meter within the Parshall flume. This resulted in inaccurate effluent flow readings until 06:30 12/28/15. On 12/27/15 at 13:45 the bioprocess flow valve was adjusted from 58.5% to 50.0%. The lag time from the bioprocess valve adjustment to stabilize flow at the point of discharge can take up to one hour. The valve remained at this setting throughout the rest of this days flow. As illustrated from 07:00-12:00, flow is relatively stable during these conditions, so these readings were averaged to calculate the flow during the time the flow meter was submerged.

ESTIMATED HOURLY FLOWS				TOTALIZER SUMMARY	
	Hourly 12/27-12/28 Time	Effluent Flow Meter Totalizer	Hourly Flow & Estimated Flows	Hourly 12/27-12/28 Time	Hourly Effluent Flow Totalizer
12/27/2015	1200	147207585		12/27/2015 12:00	147207585
	1300	147212575	0.4990	13:00	147212575
	1400	147217689	0.5114	14:00	147217689
	1500	147222448	0.4759	15:00	147222448
	1600	-	0.4175	16:00	147226794
	1700	-	0.4175	17:00	147231202
	1800	-	0.4175	18:00	147235633
	1900	-	0.4175	19:00	147240200
	2000	-	0.4175	20:00	147244827
	2100	-	0.4175	21:00	147249289
	2200	-	0.4175	22:00	147254020
	2300	-	0.4175	23:00	147258451
12/28/2015	2400	-	0.4175	12/28/2015 0:00	147262757
	100	-	0.4175	1:00	147267116
	200	-	0.4175	2:00	147271344
	300	-	0.4175	3:00	147275747
	400	-	0.4175	4:00	147280246
	500	-	0.4175	5:00	147284708
	600	-	0.4175	6:00	147289092
	700	147293278	0.4175	7:00	147293278
	800	147297425	0.4147	8:00	147297425
	900	147301652	0.4227	9:00	147301652
	1000	147305695	0.4043	10:00	147305695
	1100	147309929	0.4234	11:00	147309929
	1200	147314151	0.4222	12:00	147314151
		TOTAL MDG	10.253		