Environmental Health Department
Alameda County Health

Ronald Browder
Director

Maximum System Flow Verification Form

(Complete one form for each pump)

Facility Name: _____**Facility ID** _____**SR#**_____

Address: _____**City**_____

Specify which body of water (pool, spa, men's, women's, etc.): _____

Company _____**Email** _____**License#**_____

Name of person conducting test _____**Phone #**_____

Filter Type _____Confirm filter is clean ☐ Clean pump baskets ☐ Clear Suction Drains ☐
100% flow from Main Drains (close skimmer/gutter valves) ☐ Close solar and heater valves ☐

Vacuum gauge, pressure gauge and flow meter installed properly ☐ **(see figure 1)**

Pump at maximum speed 3450 RPM ☐

Pump make, model and HP _____.

If there is more than one pump, describe configuration:

Vacuum Reading on Pump _____inches Hg X 1.13 = 0.00 TDH

Pressure Reading on Pump_____ PSI X 2.31 = 0.00 TDH

Add the above or consult chart to determine Total TDH = 0

Correct for elevation: If pump is below or above the water level adjust the TDH by ***adding*** the elevation difference if pump is higher or ***subtracting*** the elevation difference if pump is lower than the water level. Pump _____Feet above water level. Pump _____Feet Below water level.

Final/Adjusted TDH_____. Flow Meter Reading_____.

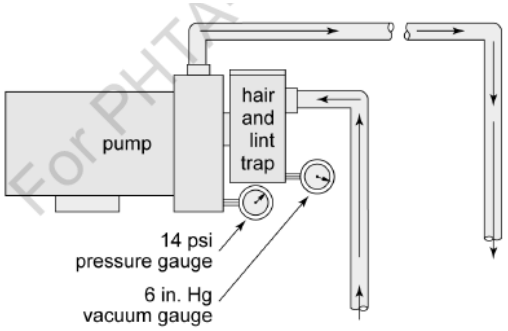
Maximum system flow from pump curve _____ GPM.

Print name _____Signature _____ Date _____

Submit this form with the Scope of Work if done prior to installation or with the AB1020 if done after installation.

Office Only: **Field Verification date:** **Inspector's Name:** **Notes:**	Vacuum: _____Inch Hg X 1.13= 0.00 TDH Pressure_____ PSI X 2.31= 0.00 TDH Total TDH 0 Elevation difference_____FT Final/Adjusted TDH _____ Flow meter reading: _____GPM

Figure 1



Pressure Head = 14 psi × 2.31 = 32.34 feet
Suction Head = 6 in. Hg × 1.13 = 6.78 feet
Total Dynamic Head = 39.12 feet

Table 1

Total Head In Feet Conversion Chart

Inches Mercury (Vacuum Gauge)

PSI (Pressure Gauge)	0	2	4	6	8	10	12	14	16	18
0	0.0	2.3	4.5	6.8	9.0	11.3	13.6	15.8	18.1	20.3
1	2.3	4.6	6.8	9.1	11.4	13.6	15.9	18.1	20.4	22.7
2	4.6	6.9	9.1	11.4	13.7	15.9	18.2	20.4	22.7	25.0
3	6.9	9.2	11.5	13.7	16.0	18.2	20.5	22.8	25.0	27.3
4	9.2	11.5	13.8	16.0	18.3	20.5	22.8	25.1	27.3	29.6
5	11.5	13.8	16.1	18.3	20.6	22.8	25.1	27.4	29.6	31.9
6	13.9	16.1	18.4	20.6	22.9	25.2	27.4	29.7	31.9	34.2
7	16.2	18.4	20.7	23.0	25.2	27.5	29.7	32.0	34.3	36.5
8	18.5	20.7	23.0	25.3	27.5	29.8	32.0	34.3	36.6	38.8
9	20.8	23.1	25.3	27.6	29.8	32.1	34.3	36.6	38.9	41.1
10	23.1	25.4	27.6	29.9	32.1	34.4	36.7	38.9	41.2	43.4
11	25.4	27.7	29.9	32.2	34.5	36.7	39.0	41.2	43.5	45.8
12	27.7	30.0	32.2	34.5	36.8	39.0	41.3	43.5	45.8	48.1
13	30.0	32.3	34.6	36.8	39.1	41.3	43.6	45.9	48.1	50.4
14	32.3	34.6	36.9	39.1	41.4	43.6	45.9	48.2	50.4	52.7
15	34.6	36.9	39.2	41.4	43.7	45.9	48.2	50.5	52.7	55.0
16	37.0	39.2	41.5	43.7	46.0	48.3	50.5	52.8	55.0	57.3
17	39.3	41.5	43.8	46.1	48.3	50.6	52.8	55.1	57.4	59.6
18	41.6	43.8	46.1	48.4	50.6	52.9	55.1	57.4	59.7	61.9
19	43.9	46.2	48.4	50.7	52.9	55.2	57.4	59.7	62.0	64.2
20	46.2	48.5	50.7	53.0	55.2	57.5	59.8	62.0	64.3	66.5
21	48.5	50.8	53.0	55.3	57.6	59.8	62.1	64.3	66.6	68.9
22	50.8	53.1	55.3	57.6	59.9	62.1	64.4	66.6	68.9	71.2
23	53.1	55.4	57.7	59.9	62.2	64.4	66.7	69.0	71.2	73.5
24	55.4	57.7	60.0	62.2	64.5	66.7	69.0	71.3	73.5	75.8
25	57.8	60.0	62.3	64.5	66.8	69.1	71.3	73.6	75.8	78.1
26	60.1	62.3	64.6	66.8	69.1	71.4	73.6	75.9	78.1	80.4
27	62.4	64.6	66.9	69.2	71.4	73.7	75.9	78.2	80.5	82.7
28	64.7	66.9	69.2	71.5	73.7	76.0	78.2	80.5	82.8	85.0
29	67.0	69.3	71.5	73.8	76.0	78.3	80.5	82.8	85.1	87.3
30	69.3	71.6	73.8	76.1	78.3	80.6	82.9	85.1	87.4	89.6
31	71.6	73.9	76.1	78.4	80.7	82.9	85.2	87.4	89.7	92.0
32	73.9	76.2	78.4	80.7	83.0	85.2	87.5	89.7	92.0	94.3
33	76.2	78.5	80.7	83.0	85.3	87.5	89.8	92.0	94.3	96.6
34	78.5	80.8	83.1	85.3	87.6	89.8	92.1	94.4	96.6	98.9
35	80.9	83.1	85.4	87.6	89.9	92.2	94.4	96.7	98.9	101.2