

Pumping Head CM3215 Spring 2015

Station	Names	Head (ft) versus Q (gpm)	Time/ Section
1			9A
2	<del>Maggie Urben</del> John Corneous	<del><math>H_p(\text{ft}) = 2.25Q^2 - 1.78Q + 78.4</math></del> $\Delta H_p(\text{ft}) = -2.168Q^2 - 0.592Q + 76.556$	9A
3			9A
4	Sam Casey Baileigh Zimmermann	$\Delta H_p(\text{ft}) = -1.9199Q^2 - 2.6355Q + 78.835$	9A
5			9A
<del>6</del>	<del>Sam Casey</del> <del>Patrick Humphreys</del>	<del><math>\Delta H_p(\text{ft}) = -1.9199Q^2 - 2.6355Q + 78.835</math></del>	9A
6	Patrick Humphreys Ethan Worsdag	$\Delta H_p(\text{ft}) = -2.29Q^2 - 0.36Q + 77.8$	9A
8	Michael Best Charles Wolfe	$\Delta H_p(\text{ft}) = -2.4178(Q)^2 + 0.0202(Q) + 74.224$	9A
9	Dimitrios Mallos Haley Coates	$\Delta H_p(\text{ft}) = -2.0234Q^2 - 2.5066Q + 76.447$	9A
10	Maggie Urben Jackie Harris	$H_p(\text{ft}) = -2.25Q^2 - 1.78Q + 78.4$	9A

DP Meter CM3215 Spring 2015

Station	Names	$\Delta p$ (psi) versus $I$ (mA)	Time/ Section
1	Sam Casey	$\Delta P(\text{psi}) = .2326 I(\text{mA}) - .952$	9A
2			9A
3			9A
4	Baileigh Zimmerman Ethan Worstog	$\Delta P(\text{psi}) = 0.238 I(\text{mA}) - 0.991$	9A
5			9A
6	Charles Wolfe David Humfleet	$\Delta P(\text{psi}) = 0.243 I(\text{mA}) - 1.11$	9A
7			9A
8	Michael Best Demitrios Mallus	$P(\text{psi}) = 0.2287 I(\text{mA}) - 0.9408$	9A
9	Maggie Urken Haley Crites	$\Delta P(\text{psi}) = 0.2232 I(\text{mA}) - 0.9518$	9A
10	John Coroneos Jackie Harris	$P = 0.2242 I - 0.9498$	9A

Rotameter CM3215 Spring 2015

Station	Names	Q (gpm) versus % Reading	Time/Section
1			9A
2	Charles Wolfe	$Q(gpm) = 0.3941$ $Q(gpm) = 0.0499 R(\%) - 0.3438$	9A
3			9A
4	Baileigh Zimmerman Sam Casey	$Q(gpm) = 0.0477 X(\%) - 0.0059$	9A
5			9A
6	Patrick Humphreest Ethan Warstog	$Q(gpm) = 0.052(\%) - 0.006$	9A
7			9A
8	John Coroneos Michael Best	$Q(gpm) = 0.0498(\%) - 0.0705$	9A
9	Haley Crites DemiTrus Mallos	$Q(gpm) = 0.048(\%) - 0.0009$	9A
10	Maggie Urben Jackie Harris	$Q(gpm) = 0.0489 R(\%) - 0.0598$ (gpm)	9A

Orifice Meter CM3215 Spring 2015

Station	Names	Q (gpm) versus I (mA)	Time/Section
1			9A
2	Charles Wolfe	$Q(\text{gpm}) = 0.1291(\sqrt{\text{mA}}) - 0.0332$	9A
3			9A
4	Sam Casey Baileigh Zimmerman	$Q(\text{gpm}) = .7581\sqrt{I(\text{mA})} - .9712$	9A
5			9A
6	Patrick Hambleet Ethan Norstoy	$Q(\text{gpm}) = 0.848(\sqrt{\text{mA}}) - 1.108$	9A
7			9A
8	John Conneus Michael Best	$Q(\text{gpm}) = 0.8014\sqrt{\text{mA}} - 0.9775$	9A
9	Dimitrios Mallos Haley Crites	$Q(\text{gpm}) = 0.7399(\sqrt{\text{mA}}) - 1.0425$	9A
10	Jackie Harris Maggie Urban	$Q(\text{gpm}) = 0.7527(\sqrt{\text{mA}}) - 1.28(\sqrt{\text{mA}})$	9A

## Orifice Meter CM3215 Spring 2015

Station	Names	Q (gpm) versus $\Delta p$ (psi)	Time/ Section
1			9A
2	Charles Wolfe	$Q(\text{gpm}) = 0.3941 P(\text{psi}) + 0.7827$	9A
3			9A
4	Sam Casey Baileigh Zimmermann	$Q(\text{gpm}) = 1.1984 \sqrt{\Delta P(\text{psi})} + 1.188$	9A
5			9A
6	Patrick Humphlet Ethain Norstog	$Q(\text{gpm}) = 1.323(\sqrt{P(\text{psi})}) - 0.004$	9A
7			9A
8	John Coroncos Michael Best	$Q(\text{gpm}) = 1.4102(\sqrt{\Delta P(\text{psi})}) - 0.033$	9A
9	Dimitrios Naltes Halcy Crites	$Q(\text{gpm}) = 1.1774 \sqrt{P(\text{psi})} - 0.0099$	9A
10	Jackie Harris Maggie Urben	$Q(\text{gpm}) = 1.2598(\sqrt{P(\text{psi})}) - 0.3332(\sqrt{P(\text{psi})})$	9A