

BEI Wet Chemistry Data 1998 -1999 - 2000

1998 Uncovered, 1999 & 2000 Covered

7 Point Paired Data Analyses

<u>Sample Date</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
5/14/98	1114.3	0.7	16.7	1593	3140	1.9	8
6/5/98	1028.9	1	23.3	1193	2276.7	1.3	7.9
6/10/98	957.7	0.5	0	723.7	2243.3	12	8
6/17/99	762.5	0.6	0	957.3	1753.3	15.8	7.9
6/24/98	1000.4	0.4	60	630.7	833.3	11.3	7.7
7/1/98	872.3	0.5	66.7	847.3	1556.7	11.6	8
7/8/98	857.3	0.3	36.7	191.3	2496.7	5.6	7.3
<u>Sample Date</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
5/14/99	961.8	4	73.3	753.3	2103.3	14.4	7.5
5/25/99	890.6	4.4	66.7	650	2733.3	9	7.5
6/8/99	841.8	2.8	63.3	288	2163.3	22.5	7.4
6/15/99	870.3	3.3	96.7	1091.3	2583.3	10.6	7.5
6/24/99	866.2	2.5	73.3	729.7	2380	24.2	7.3
7/8/99	998.4	3.1	83.3	150.7	1896.7	16.5	7.5
7/15/99	1018.7	1.9	60	226.3	1803.3	23	7.5
<u>Sample Date</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
5/22/00	811.3	15.5	96.7	737	2540	16.2	7.1
5/30/00	1104.1	6.5	76.7	392.3	2330	13.3	7.8
6/5/00	1161	10.1	83.3	656	2980	14.2	7.6
6/12/00	1057.3	14	56.7	581	2590	11.3	7.1
6/27/00	1175.3	4.3	113.3	458	2746.7	13.7	7.4
7/5/00	1142.7	4.8	96.7	707	2836.7	14.2	6.9
7/10/00	1041.1	11.6	73.3	564.3	2780	14.9	7.1
<u>5/6 thru 7/8 1998</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
Average	941.9	0.6	29.1	876.6	2042.9	8.5	7.8
Standard Deviation of Data	110.3	0.2	24.8	409.6	685.3	5.2	0.2
95% Confidence Level	81.7	0.2	18.4	303.4	507.7	3.8	0.2
Resulting in Range From:	860.2	0.4	10.7	573.2	1535.2	4.7	7.7
To:	1023.6	0.7	47.4	1180.0	2550.5	12.3	8.0
<u>5/3 thru 7/15 1999</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
Average	921.1	3.1	73.8	555.6	2237.6	17.2	7.5
Standard Deviation of Data	65.4	0.8	11.7	318.3	319.4	5.7	0.1
95% Confidence Level	48.5	0.6	8.7	235.8	236.6	4.2	0.1
Resulting in Range From:	872.6	2.6	65.1	319.8	2001.0	12.9	7.4
To:	969.6	3.7	82.5	791.4	2474.2	21.4	7.5
<u>5/22 thru 7/17 2000</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
Average	1070.4	9.5	85.2	585.1	2686.2	14.0	7.3
Standard Deviation of Data	115.7	4.1	17.3	117.6	199.6	1.4	0.3
95% Confidence Level	85.7	3.1	12.8	87.1	147.9	1.0	0.2
Resulting in Range From:	984.7	6.5	72.5	498.0	2538.3	12.9	7.1
To:	1156.1	12.6	98.0	672.2	2834.1	15.0	7.5
<u>1998/1999 Data Comparison</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
T-Test P(T<=t) value@.05 alpha	0.715	0.000	0.008	0.081	0.582	0.020	0.010
Statistically Significant Difference?	No	Yes	Yes	No	No	Yes	Yes
<u>1998/2000 Data Comparison</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
T-Test P(T<=t) value@.05 alpha	0.145	0.002	0.000	0.124	0.085	0.071	0.010
Statistically Significant Difference?	No	Yes	Yes	No	No	No	Yes
<u>1999/2000 Data Comparison</u>	<u>Ammonia mg/L</u>	<u>Sulfide mg/L</u>	<u>Sulfate mg/L</u>	<u>VFA mg/L</u>	<u>COD mg/L</u>	<u>Phenol mg/L</u>	<u>Sample pH</u>
T-Test P(T<=t) value@.05 alpha	0.055	0.009	0.268	0.851	0.060	0.193	0.254
Statistically Significant Difference?	No	Yes	No	No	No	No	No