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Shaw E & I, Inc.

WATER QUALITY METER FIELD CALIBRATION LOG

Project Name: STP/MPL DITCHES Site Name.: STP/MPL Page 1 of 4

Calibration Solutions Lot Numbers and Expiration Dates: pH 7.00 - 0082-18 EXP. 2-5-12 / pH 10.0 LOT #0250-13 EXP 9-9-11
COND STANDARD LOT # 20050.26 EXP. 2011, LAB SAFETY BUFFERS 2 ZOBELL YSI 3682 LOT 11B101053 EXP 2-20-
DO. DISTILL WATER EXP. 3-15-12, TURB STANDARDS 1, 10, 100, 1000 NTU AQUA FEST KIT. EXP.

Date / Time	Instrument Model / Number	Parameter / Known Value	Initial Reading	Calibrated Reading	Initials	Comments
7-5-11/1000	YSI 556 / TAG # 00079	pH 7.00	7.16	6.99	M	AT 30°C OK
7-5-11	YSI " "	pH 10.00	9.70	9.94	M	AT 30°C
7-5-11	YSI " "	SP. COND 1413 uS	1.430 mS/CM		M	OK
7-5-11	" "	ORP 176.8 @ 30°C	140.0	176.8	M	OK
7-5-11	" "	DISS O2	7.12 %	7.13	M	OK
7-5-11	TAG # ORION TURBIDITY METER	1, 10, 100, 1000 NTU	—	—	M	OK
7-6-11 0815	YSI 556/#0079	pH 7.00	6.98	7.02	J.P.	OK
7-6-11 0819	YSI 556/#0079	pH 10.00	10.08	10.05	J.P.	OK
7-6-11 0823	YSI 556/#0079	Diss O2 655.4 mmHg	84.9% 6.54 mg/l	86.2% 6.64 mg/l	J.P.	OK Temp 26.98°C
7-7-11 0751	YSI 556/#0079	pH 7.00	6.92	7.02	J.P.	OK
7-7-11 0754	YSI 556/#0079	pH 10.00	9.96	10.05	J.P.	OK
7-7-11 0758	YSI 556/#0079	Diss O2 654.6 mmHg	87.6% 6.78 mg/l	86.1% 6.67 mg/l	J.P.	OK Temp: 26.88°C
7-8-11 0755	YSI 556/#0079	pH 7.00	7.22	7.06	J.P.	OK
7-8-11 0758	YSI 556/#0079	pH 10.00	10.13	10.05	J.P.	OK
7-8-11 1002	YSI 556/#0079	Diss. O2 658.9 mmHg	136.1% 11.11 mg/l	86.7% 7.01 mg/l	J.P.	OK Temp 25.89°C
7-11-11 0831	YSI 556/#0079	pH 7.00	6.98	7.02	J.P.	OK
7-11-11 0834	YSI 556/#0079	pH 10.00	9.86	10.05	J.P.	OK
7-11-11 0845	YSI 556/#0079	Diss O2 653.1 mmHg	55.1% 4.29 mg/l	85.9% 6.69 mg/l	J.P.	OK Temp 28.43°C

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Calibration Solutions Lot Numbers and Expiration Dates: see page 1

Date / Time	Instrument Model / Number	Parameter / Known Value	Initial Reading	Calibrated Reading	Initials	Comments
7-13-11 0820	~~pH~~ YSI 556/#0079	pH 7.00	7.01	7.05	J.P.	OK
7-13-11 0823	YSI 556/#0079	pH 10.00	10.08	10.05	J.P.	OK
7-13-11 0830	YSI 556/#0079	Diss. O^2 651.0 mmHg	56.9% 4.19 mg/l	86.1% 6.61 mg/l	J.P.	OK Temp 26.48°C
7-14-11	YSI 556/#0079	pH 7.00	7.02	7.02	J.P.	OK
7-14-11	YSI 556/#0079	pH 10.00	10.01	10.05	J.P.	OK
7-14-11	YSI 556/#0079	Diss O^2 665.3 mmHg	88.2% 7.91 mg/l	87.5% 7.84 mg/l	J.P.	OK Temp 24.69°C
7-18-11	YSI 556/#0079	pH 7.00	6.99	7.02	J.P.	OK
7-18-11	YSI 556/#0079	pH 10.00	10.01	10.05	J.P.	OK
7-18-11	YSI 556/#0079	Diss O^2 659.0 mmHg	84.4% 7.15 mg/l	86.7% 7.36 mg/l	J.P.	OK 23.95°C
7-19-11	YSI 556/#0079	pH 7.00	7.01	7.02	J.P.	OK
7-19-11	YSI 556/#0079	pH 10.00	10.02	10.05	J.P.	OK
7-19-11	YSI 556/#0079	Diss O^2 661.5 mmHg	92.7% 7.47 mg/l	88% 7.40 mg/l	J.P.	OK 23.64°C
7-20-11	YSI 556/#0079	pH 7.00	7.01	7.02	J.P.	OK
7-20-11	YSI 556/#0079	pH 10.00	10.04	10.05	J.P.	OK
7-20-11	YSI 556/#0079	Diss O^2 660.7 mmHg	84% 6.79 mg/l	87% 7.21 mg/l	J.P.	OK 24.69°C
7-21-11	YSI 556/#0079	pH 7.00	6.98	7.02	J.P.	OK
7-21-11	YSI 556/#0079	pH 10.00	10.01	10.05	J.P.	OK
7-21-11	YSI 556/#0079	Diss O^2 650.02 mmHg	86.6% 7.45 mg/l	85.6% 7.45 mg/l	J.P.	OK Temp: 25.48°C

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WATER QUALITY METER FIELD CALIBRATION LOG

Project Name: STP/MPL Ditches Site Name.: STP/MPL - HTA/OB-OP

Calibration Solutions Lot Numbers and Expiration Dates: See page 1

Date / Time	Instrument Model / Number	Parameter / Known Value	Initial Reading	Calibrated Reading	Initials	Comments
7-22-11	YSI 556/#0079	pH 7.00	7.01	7.02	J.P.	OK
7-22-11	YSI 556/#0079	pH 10.00	10.02	10.05	J.P.	OK
7-22-11	YSI 556/#0079	Diss O^2 660 mmHg	7.03 mg/l 88%	7.20 mg/l 88%	J.P.	OK 24.98 °C
7-25-11	YSI 556/#0079	pH 7.00	6.98	7.02	J.P.	OK
7-25-11	YSI 556/#0079	pH 10.00	10.01	10.05	J.P.	OK
7-25-11	YSI 556/#0079	Diss O^2 661 mmHg	8.01 mg/l 82.7%	7.19 mg/l 88%	J.P.	OK 24.96 °C
7-26-11	YSI 556/#0079	pH 7.00	7.03	7.02	J.P.	OK
7-26-11	YSI 556/#0079	pH 10.00	10.04	10.05	J.P.	OK
7-26-11	YSI 556/#0079	Diss. O^2 660 mmHg	7.09 mg/l 87.0%	7.19 mg/l 88%	J.P.	OK 25.96 °C
7-27-11	YSI 556/#0079	pH 7.00	6.99	7.02	J.P.	OK
7-27-11	YSI 556/#0079	pH 10.00	10.01	10.05	J.P.	OK
7-27-11	YSI 556/#0079	Diss. O^2 659.8 mmHg	6.53 mg/l 82.2%	7.00 mg/l 86.7%	J.P.	OK 26.02 °C
7-28-11	YSI 556/#0079	pH 7.00	7.03	7.02	J.P.	OK
7-28-11	YSI 556/#0079	pH 10.00	10.02	10.05	J.P.	OK
7-28-11	YSI 556/#0079	Diss O^2 663.7 mmHg	81.5% 6.52 mg/l	87.2% 7.10 mg/l	J.P.	OK 28.40 °C
HTA 8-1-11	YSI 556/#0079	pH 7.0	6.82	6.99	BTD	OK 28.01 °C
OB/OP 8-1-11	YSI 556/#0079	pH 10.0	~~9.96~~ BTD 10.02	9.96	BTD	OK
8-1-11	YSI 556/#0079	Diss O^2	7.98 94.5% mg/l 662.3	87.1% 6.88 mg/l	BTD	OK 28.01 °C

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WATER QUALITY METER FIELD CALIBRATION LOG

Project Name: HTA OB/OD Site Name.: HTA OB/OD

Calibration Solutions Lot Numbers and Expiration Dates: See page 1

Date / Time	Instrument Model / Number	Parameter / Known Value	Initial Reading	Calibrated Reading	Initials	Comments
8-2-11	YSI 556 / #0079	pH 7.0	7.02	7.0	BTD	OK
8-2-11	YSI 556 / #0079	pH 10.0	9.57	10.00	BTD	OK
8-2-11	YSI 556 / #0079	Diss O_2 624.4	86.6% 6.68 mg/l	81.8% 6.34	BTD	OK 28.50 °C
8-3-11	YSI 556 / #0079	pH 7.0	7.13	6.99	[illegible]	OK 23.38 °C
"	" "	pH 10.0	10.04	9.96	[illegible]	OK
"	" "	Diss O_2	7.22 mg/l / 86.0%	81.7% / 6.44	[illegible]	OK
8-4-11	YSI 556 / #0079	pH 7.00	7.01	7.05	BTD	OK
"	" "	pH 10.00	10.06	10.03	BTD	OK
"	" "	Diss O_2 652 mm/Hg	84.4% 7.10 mg/l	87.3% 7.21 mg/l	BTD	OK
8-8-11	" "	pH 7.00	6.98	7.01	BTD	OK
"	" "	pH 10.00	10.01	10.03	BTD	OK
"	" "	Diss O_2 632.3 mm/Hg	65.3% 5.42 mg/l	78.2% 6.31 mg/l	BTD	OK