

Attachment F
Groundwater Sampling Logs

**LOW FLOW SAMPLING
DATA SHEETS**

Site: <u>PPG Jersey City</u>	Client / Site: <u>Dresdner Robin</u>
Date: <u>2/9/2011</u>	Field Personnel: <u>D. Miller</u>
Weather: <u>Sunny, 20° F</u>	Job #: <u>22930</u>

Monitoring Well #: <u>108-TMW-J008</u>	Well Depth: <u>19.47</u> ft	Screened/Open Interval: <u>5.0</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>1</u> inches	

PID/FID Readings (ppm):	Background: <u>NA</u>	Pump Intake Depth: <u>18.5</u> ft below TOC
	Beneath Outer Cap: <u>NA</u>	Depth to Water Before Pump Installation: <u>15.01</u> ft below TOC
	Beneath Inner Cap: <u>NA</u>	Purge Method: <u>Peristaltic Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0915	x		7.79	NA	13.7	NA	1042	NA	2.42	NA	231.8	NA	625	NA	100	15.47
0920	x		7.71	-0.08	13.9	0.2	645	-397	2.33	-0.09	219.7	-12.1	296	-329	100	15.56
0925	x		7.63	-0.08	14.0	0.1	373	-272	2.24	-0.09	211.1	-8.6	165	-131	100	15.64
0930	x		7.59	-0.04	14.1	0.1	370	-3	1.94	-0.30	202.4	-8.7	124	-41	100	15.70
0935	x		7.56	-0.03	14.1	0.0	369	-1	1.78	-0.16	193.1	-9.3	108.0	-16.0	100	15.76
0940	x		7.55	-0.01	14.1	0.0	365	-4	1.88	0.10	186.3	-6.8	116	8	100	15.83
0945	x		7.55	0.00	14.2	0.1	370	5	1.79	-0.09	179.9	-6.4	109.6	-6.4	100	15.86
0950	x		7.54	-0.01	14.3	0.1	374	4	1.72	-0.07	175.1	-4.8	169	59	100	15.91
0955	x		7.55	0.01	14.2	-0.1	362	-12	1.45	-0.27	170.6	-4.5	178	9	100	16.01
1000	x		7.54	-0.01	14.3	0.1	369	7	1.45	0.00	155.4	-15.2	2932	2754	100	17.43
1005	x		7.54	0.00	14.5	0.2	361	-8	0.99	-0.46	144.5	-10.9	3563	631	100	17.51
1010	x		7.54	0.00	14.1	-0.4	372	11	1.19	0.20	143.5	-1.0	3848	285	100	17.57
1015	x		7.54	0.00	14.2	0.1	368	-4	1.14	-0.05	138.6	-4.9	3751	-97	100	17.64
1020	x		7.54	0.00	14.2	0.0	362	-6	1.12	-0.02	135.8	-2.8	3685	-66	100	17.76
1025		x	7.54	0.00	14.3	0.1	360	-2	1.08	-0.04	134.2	-1.6	3602	-83	100	17.83
1030		x	7.54	0.00	14.3	0.0	366	6	1.11	0.03	133.0	-1.2	3533	-69	100	17.89
1035		x	7.54	0.00	14.2	-0.1	361	-5	1.06	-0.05	130.7	-2.3	3496	-37	100	17.94

Comments: Purge began at 0910. Sample time is 1021.

ORP readings are reported relative to the Standard Hydrogen Electrode. Primary Review: DM 2/10/11 Secondary Review: KH 2/15/11

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

**LOW FLOW SAMPLING
DATA SHEETS**

Site: <u>PPG Jersey City</u>	Client / Site: <u>Dresdner Robin</u>
Date: <u>2/9/2011</u>	Field Personnel: <u>S. Schulze</u>
Weather: <u>Sunny, 20° F</u>	Job #: <u>22930</u>

Monitoring Well #: <u>108-TMW-J014</u>	Well Depth: <u>19.10</u> ft	Screened/Open Interval: <u>5.0</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>1</u> inches	

PID/FID Readings (ppm):	Background: <u>NA</u>	Pump Intake Depth: <u>17.0</u> ft below TOC
	Beneath Outer Cap: <u>NA</u>	Depth to Water Before Pump Installation: <u>10.73</u> ft below TOC
	Beneath Inner Cap: <u>NA</u>	Purge Method: <u>Peristaltic Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0919	X		8.59	NA	13.2	NA	615	NA	1.17	NA	30.2	NA	2388	NA	130	11.48
0924	X		8.22	-0.37	13.7	0.5	613	-2	1.09	-0.08	16.2	-14.0	2930	542	120	11.66
0929	X		8.01	-0.21	13.8	0.1	602	-11	1.10	0.01	1.5	-14.7	3166	236	120	11.90
0934	X		7.84	-0.17	13.3	-0.5	598	-4	0.94	-0.16	4.4	2.9	3667	501	120	12.07
0939	X		7.67	-0.17	13.4	0.1	592	-6	0.96	0.02	1.2	-3.2	3729	62	120	12.19
0944	X		7.60	-0.07	13.4	0.0	588	-4	0.96	0.00	-5.0	-6.2	3984	255	120	12.25
0949	X		7.58	-0.02	13.3	-0.1	586	-2	1.00	0.04	-5.9	-0.9	3945	-39	120	12.26
0954	X		7.53	-0.05	13.3	0.0	582	-4	1.02	0.02	-6.6	-0.7	3999	54	120	12.27
0959	X		7.50	-0.03	13.3	0.0	580	-2	1.04	0.02	-8.1	-1.5	3966	-33	120	12.29
1004	X		7.47	-0.03	13.3	0.0	579	-1	1.10	0.06	-9.7	-1.6	3941	-25	120	12.31
1009	X		7.44	-0.03	13.4	0.1	575	-4	1.12	0.02	-12.7	-3.0	3954	13	120	12.35
1014	X		7.41	-0.03	13.4	0.0	571	-4	1.15	0.03	-19.8	-7.1	3947	-7	120	12.40
1019	X		7.41	0.00	13.5	0.1	569	-2	1.14	-0.01	-22.4	-2.6	4111	164	120	12.42
1024	X		7.40	-0.01	13.5	0.0	567	-2	1.19	0.05	-26.7	-4.3	4222	111	120	12.48
1029		X	7.40	0.00	13.6	0.1	566	-1	1.21	0.02	-29.3	-2.6	4198	-24	120	12.54
1034		X	7.40	0.00	13.6	0.0	565	-1	1.20	-0.01	-31.2	-1.9	4114	-84	120	12.66
1039		X	7.40	0.00	13.7	0.1	561	-4	1.14	-0.06	-37.8	-6.6	4222	108	120	12.68

Comments: Pump on @ 0908 Sample time : 1025
 ORP readings are reported relative to the Standard Hydrogen Electrode. Primary Review: SS 02/10/11 Secondary Review: LM 02/15/11

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

**LOW FLOW SAMPLING
DATA SHEETS**

Site: <u>PPG Jersey City</u>	Client / Site: <u>Dresdner Robin</u>
Date: <u>3/19/2011</u>	Field Personnel: <u>T. Lesinski</u>
Weather: <u>Sunny/ 50° F</u>	Job #: <u>24306</u>

Monitoring Well #: <u>108_MW-1-19.0</u>	Well Depth: <u>25.75</u> ft	Screened/Open Interval: <u>15.0</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>4</u> inches	

PID/FID Readings (ppm):	Background: <u>NA</u>	Pump Intake Depth: <u>19.0</u> ft below TOC
	Beneath Outer Cap: <u>NA</u>	Depth to Water Before Pump Installation: <u>16.75</u> ft below TOC
	Beneath Inner Cap: <u>NA</u>	Purge Method: <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
1015	x		6.03	NA	15.6	NA	515	NA	1.41	NA	230.5	NA	3.95	NA	160	16.83
1020	x		5.99	-0.04	15.3	-0.3	507	-8	1.16	-0.25	249.6	19.1	3.55	-0.40	160	16.86
1025	x		6.29	0.30	15.2	-0.1	524	17	0.96	-0.20	264.9	15.3	2.63	-0.92	160	16.86
1030	x		6.50	0.21	15.2	0.0	610	86	0.79	-0.17	266.3	1.4	1.73	-0.90	160	16.86
1035	x		6.20	-0.30	15.2	0.0	721	111	0.85	0.06	265.4	-0.9	1.73	0.00	160	16.86
1040	x		6.13	-0.07	15.2	0.0	911	190	0.86	0.01	262.9	-2.5	1.48	-0.25	160	16.86
1045	x		6.20	0.07	15.2	0.0	954	43	0.83	-0.03	258.4	-4.5	1.19	-0.29	160	16.86
1050	x		6.26	0.06	15.2	0.0	989	35	0.80	-0.03	254.8	-3.6	1.17	-0.02	160	16.86
1055	x		6.28	0.02	15.2	0.0	1037	48	0.79	-0.01	251.7	-3.1	0.92	-0.25	160	16.86
1100	x		6.30	0.02	15.2	0.0	1039	2	0.80	0.01	251.6	-0.1	0.98	0.06	160	16.86
1105	x		6.31	0.01	15.2	0.0	1036	-3	0.82	0.02	251.3	-0.3	0.94	-0.04	160	16.86
1110		x	6.32	0.01	15.3	0.1	1034	-2	0.96	0.14	250.3	-1.0	0.89	-0.05	160	16.86
1115		x	6.32	0.00	15.3	0.0	1033	-1	0.94	-0.02	249.8	-0.5	0.86	-0.03	160	16.86

Comments: Purge began at 1010. Sample time is 1106.
FB031911 @ 1000

ORP readings are reported relative to the Standard Hydrogen Electrode. Primary Review: TL 3/23/11 Secondary Review: SS 03/24/11

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

**LOW FLOW SAMPLING
DATA SHEETS**

Site: <u>PPG Jersey City</u>	Client / Site: <u>Dresdner Robin</u>
Date: <u>10/13/2011</u>	Field Personnel: <u>T. Lesinski</u>
Weather: <u>Light Rain/53°F</u>	Job #: <u>32369</u>

Monitoring Well #: <u>108_MW-7</u>	Well Depth: <u>18.17</u> ft	Screened/Open Interval: <u>5 - 10</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):	Background: <u>NA</u>	Pump Intake Depth: <u>10.0</u> ft below TOC
	Beneath Outer Cap: <u>NA</u>	Depth to Water Before Pump Installation: <u>8.81</u> ft below TOC
	Beneath Inner Cap: <u>NA</u>	Purge Method: <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
1100	X		7.21	NA	18.9	NA	303	NA	2.44	NA	316.2	NA	59.5	NA	100	9.05
1105	X		7.07	-0.14	18.7	-0.2	292	-11	1.72	-0.72	305.1	-11.1	37.4	-22.1	100	9.19
1110	X		7.06	-0.01	18.6	-0.1	290	-2	1.07	-0.65	288.2	-16.9	16.4	-21.0	100	9.33
1115	X		7.01	-0.05	18.5	-0.1	293	3	0.71	-0.36	276.9	-11.3	9.98	-6.42	100	9.38
1120	X		6.92	-0.09	18.4	-0.1	294	1	0.63	-0.08	266.5	-10.4	7.32	-2.66	100	9.43
1125	X		7.02	0.10	18.5	0.1	292	-2	0.55	-0.08	256.0	-10.5	5.71	-1.61	100	9.45
1130	X		7.05	0.03	18.7	0.2	292	0	0.49	-0.06	244.4	-11.6	5.01	-0.70	100	9.47
1135	X		7.08	0.03	18.7	0.0	289	-3	0.47	-0.02	237.9	-6.5	4.83	-0.18	100	9.47
1140	X		7.08	0.00	18.8	0.1	291	2	0.46	-0.01	236.4	-1.5	4.70	-0.13	100	9.47
1145		X	7.08	0.00	18.7	-0.1	288	-3	0.64	0.18	235.4	-1.0	4.66	-0.04	100	9.47
1150		X	7.08	0.00	18.8	0.1	284	-4	0.73	0.09	234.8	-0.6	4.52	-0.14	100	9.47
1155		X	7.10	0.02	18.8	0.0	281	-3	0.69	-0.04	233.1	-1.7	6.78	2.26	100	9.47
1200		X	7.10	0.00	18.8	0.0	285	4	0.71	0.02	232.4	-0.7	9.98	3.20	100	9.47
1205		X	7.09	-0.01	18.7	-0.1	286	1	0.66	-0.05	232.0	-0.4	7.42	-2.56	100	9.47
1210		X	7.09	0.00	18.8	0.1	289	3	0.67	0.01	231.4	-0.6	5.43	-1.99	100	9.47

Comments: Purge began at 1055. Sample time is 1141.

ORP readings are reported relative to the Standard Hydrogen Electrode. Primary Review: TL 10/18/11 Secondary Review: SS 10/18/11

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

DATE: 2/9/2011 CLIENT: Dresdner Robin SITE: PPG Jersey City
 WEATHER: Sunny, 20° F ARRIVAL: 0830 DEPARTURE: 1430 JOB #: 22930
 ANALYST / FIELD SAMPLER: D. Miller FIELD SAMPLER: S. Schulze

FIELD INSTRUMENT AND CALIBRATION DATA

METER ID'S

	METER	PROBE
DO	<u>M-007</u>	<u>MP-118</u>
pH	<u>M-039</u>	<u>MP-124</u>
COND.	<u>M-005</u>	<u>MP-072</u>
ORP	<u>M-041</u>	<u>MP-111</u>
TURBIDITY	<u>M-048</u>	

Turbidity

Set to : 4000
 Lot & Exp. A0278 3/10/11
 Read : True Value 10.0
 Result 9.9

DISSOLVED OXYGEN

Water Temp (°C) 10.6
 Barometric Press (mm Hg) 768
 O2 Saturation % 100

Lot & Exp. C03300 3/10/11
 *Result must be within 10% of True Value.

* Calibration must be to 100% O2 Saturation

pH

Buffer 4.01 4.03 Temp (°C) 10.4
 Buffer 7.00 7.05 Temp (°C) 10.3
 Buffer 10.01 10.18 Temp (°C) 10.6
 Calibration performed at 840

Lot # and Expiration Date

A9273 09/2013
A9328 11/2011
A0333 11/2011

*pH meter should be calibrated using 3 buffers. pH Calibration readings should be ± 0.05 pH units from actual buffer value at temp. of calibration. After calibration read buffer 7.00 - it should read ± 0.05 from actual value at temp. of calibration.

ORP

pH buffer 7.00 w/quinhydrone 99.8 Temp (°C) 10.7 Lot / Exp Date A9328 11/2011

*The reading should be within ±15mV from the following values: +96 mV at 20°C, +90 mV at 25°C

pH buffer 4.00 w/quinhydrone 273.4 Temp (°C) 10.8 Lot / Exp Date A9273 09/2013

*The reading should be between +170mV at 20°C and +185mV at 25°C above the reading in the 7 buffer mixture

Quinhydrone Lot / Exp Date Q17226 3/2013

SPECIFIC CONDUCTANCE

Standard 1000 ± 10 uS/cm NaCl
 Reading 1000
 Temp (°C) 10.6

Lot # and Expiration Date

A0257 09/2015

*Reading must be 1000 uS/cm

NOTES: Primary Review: DM 2/10/11 Secondary Review: KH 2/15/11

DATE: 2/9/2011 CLIENT: Dresdner Robin SITE: PPG Jersey City
 WEATHER: Sunny, 20° F ARRIVAL: 0830 DEPARTURE: 1430 JOB #: 22930
 ANALYST / FIELD SAMPLER: Steve Schulze FIELD SAMPLER: D. Miller

FIELD INSTRUMENT AND CALIBRATION DATA

METER ID'S

	METER	PROBE
DO	<u>E-011</u>	<u>EP-040</u>
pH	<u>E-035</u>	<u>EP-043</u>
COND.	<u>E-006</u>	<u>EP-021</u>
ORP	<u>E-009</u>	<u>EP-041</u>
TURBIDITY	<u>E-058</u>	

Turbidity
 Set to : 4000
 Lot & Exp. A0678 03/10/11
 Read : True Value 10.0
 Result 9.9

DISSOLVED OXYGEN

Water Temp (°C) 13.8
 Barometric Press (mm Hg) 768
 O2 Saturation % 100

Lot & Exp. CO3300 03/10/11
 *Result must be within 10% of True Value.

* Calibration must be to 100% O2 Saturation

pH

Buffer 4.01 4.00 Temp (°C) 13.7
 Buffer 7.00 7.03 Temp (°C) 13.9
 Buffer 10.01 10.12 Temp (°C) 13.6
 Calibration performed at 0835

Lot # and Expiration Date

A0061 02/14
A0057 02/12
A0063 03/11

*pH meter should be calibrated using 3 buffers. pH Calibration readings should be ± 0.05 pH units from actual buffer value at temp. of calibration. After calibration read buffer 7.00 - it should read ± 0.05 from actual value at temp. of calibration.

ORP

pH buffer 7.00 w/quinhydrone 88.1 Temp (°C) 13.8 Lot / Exp Date A0057 02/12

*The reading should be within ±15mV from the following values: +96 mV at 20°C, +90 mV at 25°C

pH buffer 4.00 w/quinhydrone 262.2 Temp (°C) 13.7 Lot / Exp Date A0061 02/14

*The reading should be between +170mV at 20°C and +185mV at 25°C above the reading in the 7 buffer mixture

Quinhydrone Lot / Exp Date Q17226 03/13

SPECIFIC CONDUCTANCE

Standard 1000 + 10 uS/cm NaCl Lot # and Expiration Date A0257 09/15
 Reading 1000
 Temp (°C) 13.9
 *Reading must be 1000 uS/cm

NOTES: Primary Review: SS 02/10/11 Secondary Review: LM 02/15/11

DATE: 3/19/2011 CLIENT: Dresdner Robin SITE: PPG Jersey City
 WEATHER: Sunny 50° F ARRIVAL: 0830 DEPARTURE: 1300 JOB #: 24306
 ANALYST / FIELD SAMPLER: T. Lesinski FIELD SAMPLER: _____

FIELD INSTRUMENT AND CALIBRATION DATA

METER ID'S

	METER	PROBE
DO	<u>E-003</u>	<u>EP-049</u>
pH	<u>M-042</u>	<u>EP-044</u>
COND.	<u>E-010</u>	<u>EP-018</u>
ORP	<u>E-012</u>	<u>MP-127</u>
TURBIDITY	<u>E-056</u>	

Turbidity

Set to : 100
 Lot & Exp. A1020 4/11
 Read : True Value 1.00
 Result 1.09

DISSOLVED OXYGEN

Water Temp (°C) 13.4
 Barometric Press (mm Hg) 763
 O2 Saturation % 100

Lot & Exp. CO 38030 4/11
 *Result must be within 10% of True Value.

* Calibration must be to 100% O2 Saturation

pH

Buffer 4.01 4.02 Temp (°C) 13.2
 Buffer 7.00 7.03 Temp (°C) 13.4
 Buffer 10.01 10.09 Temp (°C) 13.1
 Calibration performed at ON SITE 0945

Lot # and Expiration Date

A0061 2/14
A0343 12/12
A0333 11/11

*pH meter should be calibrated using 3 buffers. pH Calibration readings should be ± 0.05 pH units from actual buffer value at temp. of calibration. After calibration read buffer 7.00 - it should read ± 0.05 from actual value at temp. of calibration.

ORP

pH buffer 7.00 w/quinhdrone 90.9 Temp (°C) 13.0 Lot / Exp Date A0343 12/12

*The reading should be within ±15mV from the following values: +96 mV at 20°C, +90 mV at 25°C

pH buffer 4.00 w/quinhdrone 265.1 Temp (°C) 13.1 Lot / Exp Date A0061 2/14

*The reading should be between +170mV at 20°C and +185mV at 25°C above the reading in the 7 buffer mixture

Quinhdrone Lot / Exp Date Q17226 3/13

SPECIFIC CONDUCTANCE

Standard 1000 ± 10 uS/cm NaCl
 Reading 1000
 Temp (°C) 13.8

Lot # and Expiration Date

A0257 9/15

*Reading must be 1000 uS/cm

NOTES: Primary Review: TL 3/23/11 Secondary Review: SS 03/24/11

DATE: 3/19/2011 CLIENT: Dresdner Robin SITE: PPG Jersey City
 WEATHER: Sunny 50° F ARRIVAL: 0830 DEPARTURE: 1300 JOB #: 24306
 ANALYST / FIELD SAMPLER: Lisa Melanson FIELD SAMPLER: _____

FIELD INSTRUMENT AND CALIBRATION DATA

METER ID'S

	METER	PROBE
DO	<u>M-032</u>	<u>EP-047</u>
pH	<u>E-019</u>	<u>EP-045</u>
COND.	<u>M-028</u>	<u>EP-031</u>
ORP	<u>E-028</u>	<u>EP-042</u>
TURBIDITY	<u>E-055</u>	

Turbidity

Set to : 100
 Lot & Exp. A1020 4/10/11
 Read : True Value 1.00
 Result 1.05

DISSOLVED OXYGEN

Water Temp (°C) 13.7
 Barometric Press (mm Hg) 763
 O2 Saturation % 100

Lot & Exp. CO38030 4/10/11
 *Result must be within 10% of True Value.

* Calibration must be to 100% O2 Saturation

pH

Buffer 4.01 4.00 Temp (°C) 13.6
 Buffer 7.00 7.06 Temp (°C) 13.7
 Buffer 10.01 10.12 Temp (°C) 13.7
 Calibration performed at 0835

Lot # and Expiration Date

A0061 2/14
A0343 12/12
A0333 11/11

*pH meter should be calibrated using 3 buffers. pH Calibration readings should be ± 0.05 pH units from actual buffer value at temp. of calibration. After calibration read buffer 7.00 - it should read ± 0.05 from actual value at temp. of calibration.

ORP

pH buffer 7.00 w/quinhdrone 88.8 Temp (°C) 13.6 Lot / Exp Date A0343 12/12

*The reading should be within ±15mV from the following values: +96 mV at 20°C, +90 mV at 25°C

pH buffer 4.00 w/quinhdrone 268.4 Temp (°C) 13.6 Lot / Exp Date A0061 2/14

*The reading should be between +170mV at 20°C and +185mV at 25°C above the reading in the 7 buffer mixture

Quinhdrone Lot / Exp Date Q17226 3/13

SPECIFIC CONDUCTANCE

Standard 1000 ± 10 uS/cm NaCl Lot # and Expiration Date A0257 9/15
 Reading 1000
 Temp (°C) 13.8

*Reading must be 1000 uS/cm

NOTES: Primary Review: LM 03/24/11 Secondary Review: SS 03/28/11

DATE: 3/19/2011 CLIENT: Dresdner Robin SITE: PPG Jersey City
 WEATHER: Sunny 50° F ARRIVAL: 0830 DEPARTURE: 1300 JOB #: 24306
 ANALYST / FIELD SAMPLER: Steve Schulze FIELD SAMPLER: _____

FIELD INSTRUMENT AND CALIBRATION DATA

METER ID'S

	METER	PROBE
DO	<u>E-011</u>	<u>EP-040</u>
pH	<u>E-035</u>	<u>EP-043</u>
COND.	<u>E-006</u>	<u>EP-021</u>
ORP	<u>E-009</u>	<u>EP-041</u>
TURBIDITY	<u>E-058</u>	

Turbidity
 Set to : 100
 Lot & Exp. A1020 4/10/11
 Read : True Value 1.0
 Result 1.03

DISSOLVED OXYGEN

Water Temp (°C) 13.6
 Barometric Press (mm Hg) 763
 O2 Saturation % 100

Lot & Exp. CO38030 4/10/11
 *Result must be within 10% of True Value.

* Calibration must be to 100% O2 Saturation

pH

Buffer 4.01 4.00 Temp (°C) 13.7
 Buffer 7.00 7.04 Temp (°C) 13.6
 Buffer 10.01 10.15 Temp (°C) 13.7
 Calibration performed at 0831

Lot # and Expiration Date

A0061 02/14
A0057 02/12
A0333 11/11

*pH meter should be calibrated using 3 buffers. pH Calibration readings should be ± 0.05 pH units from actual buffer value at temp. of calibration. After calibration read buffer 7.00 - it should read ± 0.05 from actual value at temp. of calibration.

ORP

pH buffer 7.00 w/quinhydrone 86.2 Temp (°C) 13.7 Lot / Exp Date A0057 02/12

*The reading should be within ±15mV from the following values: +96 mV at 20°C, +90 mV at 25°C

pH buffer 4.00 w/quinhydrone 269.8 Temp (°C) 13.9 Lot / Exp Date A0061 02/14

*The reading should be between +170mV at 20°C and +185mV at 25°C above the reading in the 7 buffer mixture

Quinhydrone Lot / Exp Date Q17226 03/13

SPECIFIC CONDUCTANCE

Standard 1000 ± 10 uS/cm NaCl
 Reading 1000
 Temp (°C) 13.8

Lot # and Expiration Date

A0257 09/15

*Reading must be 1000 uS/cm

NOTES: Primary Review: SS 03/24/11 Secondary Review: LM 03/28/11

DATE: 3/19/2011 CLIENT: Dresdner Robin SITE: PPG Jersey City
 WEATHER: Sunny 50° F ARRIVAL: 0830 DEPARTURE: 1300 JOB #: 24306
 ANALYST / FIELD SAMPLER: D. Nonemaker FIELD SAMPLER: NA

FIELD INSTRUMENT AND CALIBRATION DATA

METER ID'S

	METER	PROBE
DO	M-015	MP-129
pH	M-031	MP-123
COND.	M-014	MP-101
ORP	M-006	MP-112
TURBIDITY	M-049	

Turbidity

Set to : 100
 Lot & Exp. A1020 4/9/2011
 Read : True Value 1.00
 Result 0.99

DISSOLVED OXYGEN

Water Temp (°C) 13.2
 Barometric Press (mm Hg) 763
 O2 Saturation % 100

Lot & Exp. C038030 4/9/2011
 *Result must be within 10% of True Value.

* Calibration must be to 100% O2 Saturation

pH

Buffer 4.01 4.01 Temp (°C) 12.7
 Buffer 7.00 7.01 Temp (°C) 12.7
 Buffer 10.01 10.12 Temp (°C) 13.4
 Calibration performed at 0945

Lot # and Expiration Date

A9273 09/2013
A9328 11/2011
A0333 11/2011

*pH meter should be calibrated using 3 buffers. pH Calibration readings should be ± 0.05 pH units from actual buffer value at temp. of calibration. After calibration read buffer 7.00 - it should read ± 0.05 from actual value at temp. of calibration.

ORP

pH buffer 7.00 w/quinhdrone 89.4 Temp (°C) 11.1 Lot / Exp Date A9328 11/2011

*The reading should be within ±15mV from the following values: +96 mV at 20°C, +90 mV at 25°C

pH buffer 4.00 w/quinhdrone 260.0 Temp (°C) 11.7 Lot / Exp Date A0263 09/2014

*The reading should be between +170mV at 20°C and +185mV at 25°C above the reading in the 7 buffer mixture

Quinhdrone Lot / Exp Date Q17226 03/2013

SPECIFIC CONDUCTANCE

Standard 1000 ± 10 uS/cm NaCl Lot # and Expiration Date A0257 09/2015
 Reading 1000
 Temp (°C) 13.2

*Reading must be 1000 uS/cm

NOTES: Primary Review: DN 3/26/11 Secondary Review: JK 3/29/2011

DATE: 10/13/2011 CLIENT: Dresdner Robin SITE: PPG Jersey City
 WEATHER: Light Rain/53°F ARRIVAL: 0830 DEPARTURE: 1230 JOB #: 32369
 ANALYST / FIELD SAMPLER: T. Lesinski FIELD SAMPLER: _____

FIELD INSTRUMENT AND CALIBRATION DATA

METER ID'S

	<u>METER</u>	<u>PROBE</u>
DO	<u>E-003</u>	<u>EP-063</u>
pH	<u>M-042</u>	<u>EP-044</u>
COND.	<u>E-010</u>	<u>EP-018</u>
ORP	<u>E-012</u>	<u>MP-127</u>
TURBIDITY	<u>E-056</u>	

Turbidity

Set to : 100
 Lot & Exp. A1020 10/16/11
 Read : True Value 1.0
 Result 1.03

DISSOLVED OXYGEN

Water Temp (°C) 13.8
 Barometric Press (mm Hg) 756
 O2 Saturation % 100

Lot & Exp. CO 40073 10/16/11

* Calibration must be to 100% O2 Saturation

*Result must be within 10% of True Value.

pH

Buffer 4.01 4.00 Temp (°C) 13.6
 Buffer 7.00 7.02 Temp (°C) 13.8
 Buffer 10.01 10.08 Temp (°C) 13.7
 Calibration performed at ON SITE 0935

Lot # and Expiration Date

A0340 12/14
A0343 12/12
A0333 11/11

*pH meter should be calibrated using 3 buffers. pH Calibration readings should be ± 0.05 pH units from actual buffer value at temp. of calibration. After calibration read buffer 7.00 - it should read ± 0.05 from actual value at temp. of calibration.

ORP

pH buffer 7.00 w/quinhydrone 90.9 Temp (°C) 13.8 Lot / Exp Date A0343 12/12

*The reading should be within ±15mV from the following values: +96 mV at 20°C, +90 mV at 25°C

pH buffer 4.00 w/quinhydrone 262.1 Temp (°C) 13.9 Lot / Exp Date A0340 12/14

*The reading should be between +170mV at 20°C and +185mV at 25°C above the reading in the 7 buffer mixture

Quinhydrone Lot / Exp Date Q17226 3/15

SPECIFIC CONDUCTANCE

Standard 1000 ± 10 uS/cm NaCl Lot # and Expiration Date A0257 9/15
 Reading 1000
 Temp (°C) 13.4

*Reading must be 1000 uS/cm

NOTES: Primary Review: TL 10/18/11 Secondary Review: SS 10/18/11

