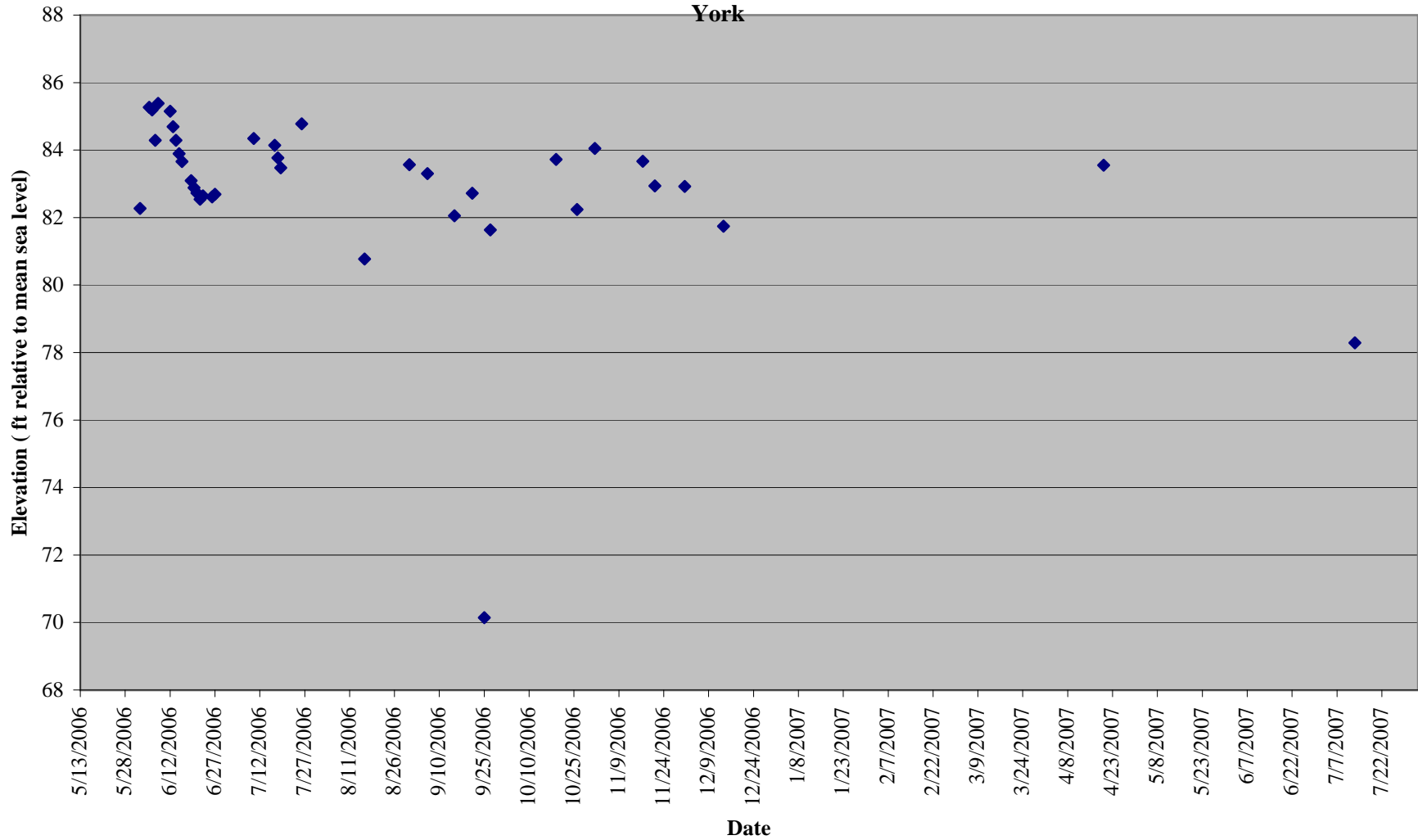
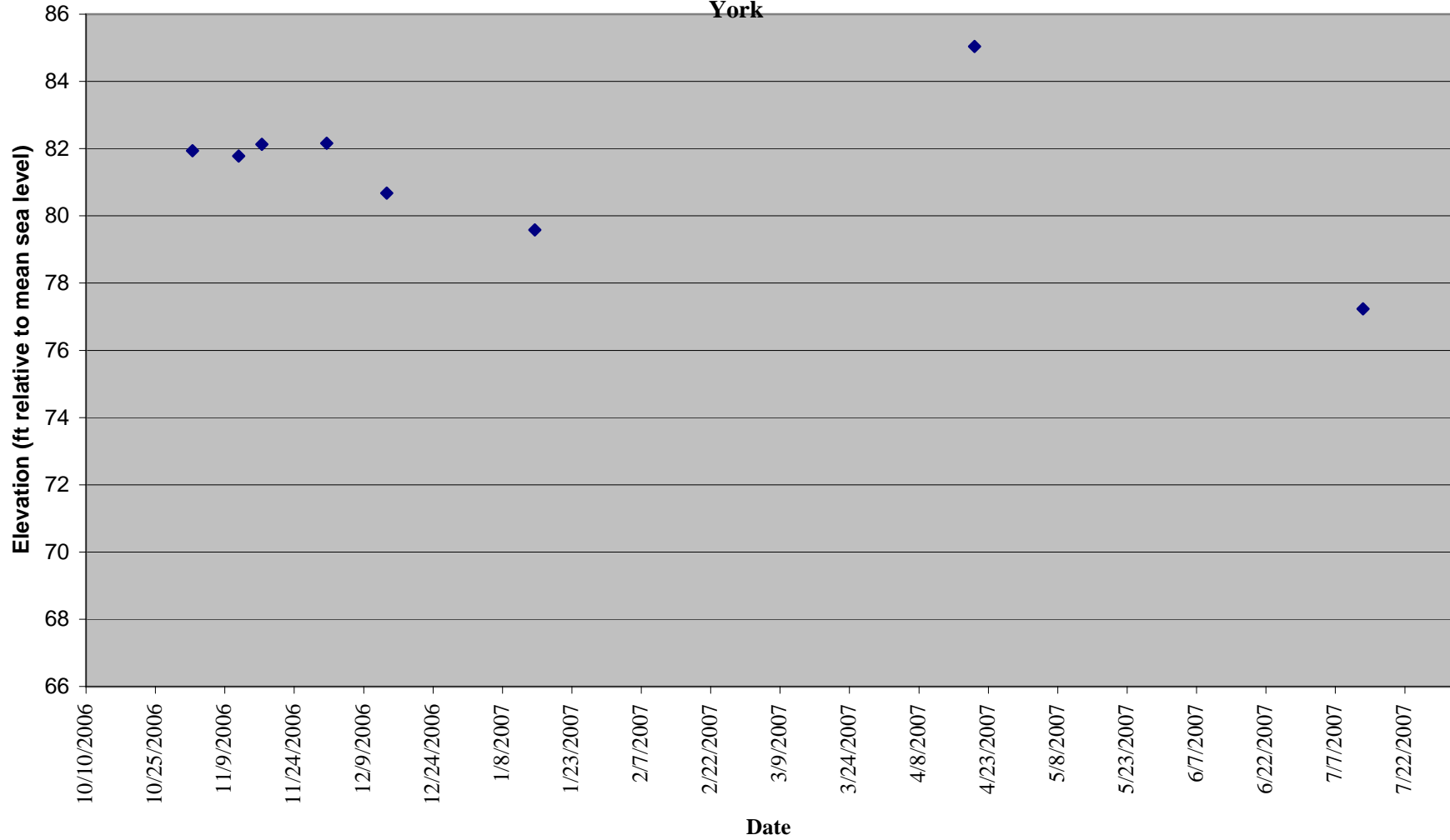


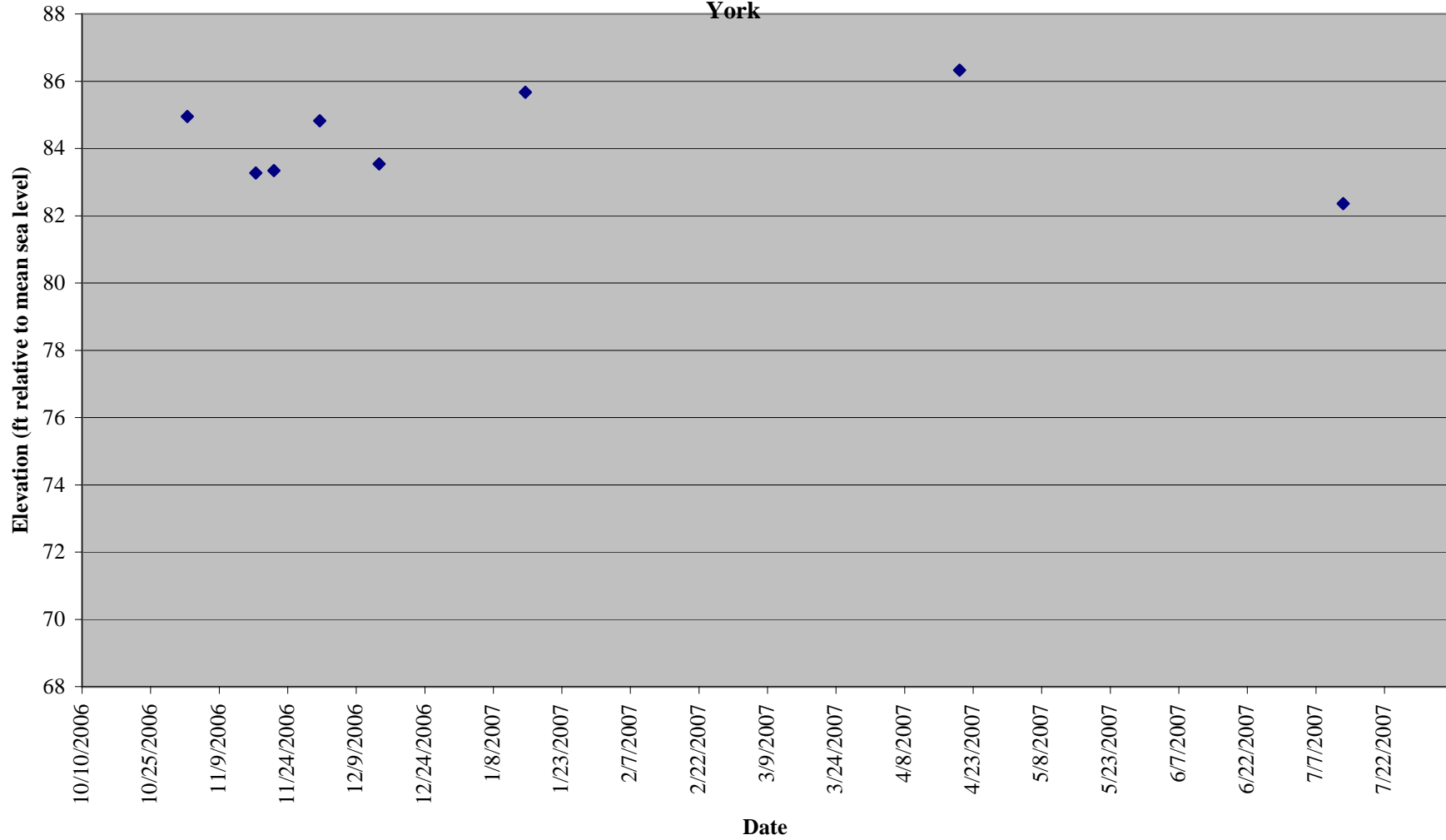
**Figure F-1**  
**Piezometer F-8-PZ**  
**Perched Water Elevations vs. Time**  
**Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York**



**Figure F-2**  
**Piezometer H-3-PZ**  
**Perched Water Elevation vs. Time**  
**Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York**



**Figure F-3**  
**Piezometer H-7-PZ**  
**Perched Water Elevation vs. Time**  
**Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York**



VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB-1

DATE(S): 7/28/2004

SAMPLER: Sean Chelios

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
7/28	0820	Yes	105-110	59.54	8.11	575	600	Clear	17.77	17.61	17.54	5.04	5.10	5.09	0.147	0.133	0.136	Clear	NA	1329
7/28	1400	Yes	85-90	64.37	8.11	25	25	Clear	19.35	18.29	18.33	5.71	5.79	5.84	0.004	0.004	0.005	Clear	NA	1425
7/28	1442	Yes	67-72	65.14	8.11	25	10	Tan	21.42	/	/	5.85	/	/	0.131	/	/	Tan	NA	1520

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB-2

DATE(S): 7/29

SAMPLER: Sean Chelius

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed	START TIME	
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3					
7/29/04	0817	Yes	105-110	58.40	8.26	375	~380	Clear	17.25	16.84	16.97	5.20	5.18	5.23	0.132	0.134	0.134	Clear	NA	1135		
8/2/04	0900	Yes	87-92	58.33	8.24	~25	30	Clear	17.71	17.69	17.71				0.119	0.117	0.117	Clear	NA	0915	0910	
									18.57	18.54	18.62	4.71	4.69	4.70								
8/2/04	0935	Yes	65-70	60.63	8.35	~25	~30 ~15	Tan	18.52	18.55	18.71	6.15	6.26	6.24	0.135	0.135	0.135	Tan	NA	0952	0945	

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB-3

DATE(S): 7/30/04

SAMPLER: Sean Chelius

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume			Purge Volume			Purge Volume					
									1	2	3	1	2	3	1	2	3			
7/30	0855	Yes	110-115	58.52	8.23	575	~580	Clear	18.29	18.31	18.30	5.60	5.58	5.50	0.193	0.194	0.194	Clear	NA	1345
7/30	1350	Yes	85-90	59.20	8.23	25	25	Tan	18.97	18.91	18.92	5.71	5.70	5.70	0.198	0.198	0.198	Clear	NA	1400
7/30	1448	Yes	65-70	59.85	8.23	25	~15	Tan	19.21	19.32	19.29	6.23	6.25	6.21	0.133	0.133	0.133	Tan	NA	1512

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-3A

DATE(S): 5/3/06

SAMPLER: P. Prezorski

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
5/3/06	8:36 <sup>AM</sup>	✓	60-65	53.88	1.78	5 + 35	40	tan	15.4	15.6	15.6	6.41	6.46	6.45	167.6	174.9	160.5	clear	N/A	9:46 AM
5/3/06	11:16 <sup>AM</sup>	✓	52-57	53.05	1.632	1.9 + 35	37	Brown	19.4	17.6	17.7	6.65	6.67	6.66	225	233	235	clear	N/A	3:37 PM

ft bis feet below land surface.

Notes on VP-3A 60-65'  
 Purge Rate 15pm (stable)  
 Rate lowered to sample  
 Turbidity at 1V=35, 2V=20, 3V=15 NTU  
 0.035 mg/L S2-

Notes on 52-57'  
 Purge rate 1400 ml/min  
 Rate lowered to sample  
 Turbidity at 1V=400, 2V=12, 3V=8.5 NTU  
 0.031 mg/L S2-

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-3B

DATE(S): 5/4/06

SAMPLER: P. Prezorski

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
5/4/06	1:14 pm	yes	70-75	54.02	3.36	10 + 27	37	Brown	18.1	18.3	17.4	6.14	6.28	6.34	404	466	506	clear	M51150	2:31 pm
								4th parameter →	17.4			6.36			508					
5/4/06	3:10 pm	yes	60-65	53.85	1.78	5.3 + 27	33	tan	19.1	18.5	19.1	5.76	5.79	5.81	238	253	257	clear	N/A	4:30 pm
5/5/06	9:00 AM	yes Used New Bailers	53-58	54.1	0.624	1.9 + 27	5	brown, silty	16.1	15.8	15.4	5.55	5.53	5.52	145	149	176.0	brown silty	NA	10:30 AM
									15.7	15.5	15.6	5.50	5.57	5.70	165.0	156.9	148			
									16.0	15.6	15.6	5.50	5.57	5.70	165.0	156.9	148			
									15.9	16.0	15.6	5.62	5.61	5.65	153.3	158.6	143.7			
									7ML	8L	8gal	7L	8L	8gal	7L	8L	8gal			

ft bls feet below land surface.

Notes on 70-75'

Purge rate 1 gpm  
 4th parameter needed to stabilize  
 Rate lowered to sample  
 Turbidity at 1V = 75, 2V = 70, 3V = 8.0, 4V = 5.3 NTU  
 - .007 mg/L S<sub>2</sub>-

Notes on 60-65'

Purge rate 1 gpm  
 Rate lowered to sample but  
 flow stopped upon return turbid.  
 Start of sampling 4:17 pm at turbidity 21 NTU.  
 Turbidity at 1V = 85, 2V = 30, 3V = 29,  
 At sample time = 21 NTU

Sounded depth 65.32  
 DTW = 54.75 - casing (2.9")  
 = 62.65

Notes on 53-58'

54.1 = Water level  
 Sulfide = 0.132 mg/L  
 diluted  
 50 ml H<sub>2</sub>O  
 Turbidity on all readings > 200  
 past limit of turbidity meter  
 \* Bailer was used, Bailer was  
 a 1L Bailer. Parameters taken on  
 first 8L bailed and then before  
 sample taken after 5 gallons and  
 been bailed





VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-3C

DATE(S): 05/08/06  
5/9/06  
5/10/06

SAMPLER: John Corral  
P. Prezorski

Page 1 of 2

Notes on 130-125':  
 Purge rate 1 gpm  
 Rate stable  
 Turbidity at 1V = over range,  
 2V = 450 NTU  
 3V = 95 NTU  
 Rate lowered to sample

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
05/08/06		yes	150-145	54.78	15.25	45.75 + 3 49 gallons	49	turbid brown	16.0	8.0	7.0	5.48	5.76	5.54	227	114.7	108.4			
		yes	140-135	54.80	13.63	41 + 3 = 44 gallons	44	turbid brown	17.0	15.7	15.7	5.51	5.47	5.43	170.6	173.4	172.7	slightly cloudy	NA	4:15 PM
5/9/06	9:47 AM	yes	130-125 <del>120-115</del>	54.77	12.04	36 + 3 = 39.1	40	tan	15.2	15.4	15.6	5.84	5.74	5.75	262	247	248	cloudy	N/A	10:37 AM
5/9/06	10:54 AM	yes	120-115	54.67	10.45	31.3 + 3 = 35	35	light tan	15.4	15.5	15.9	5.75	5.72	5.69	197.9	198.5	198.7	clear	N/A	11:44 AM
5/9/06	12:47	yes	110-105	54.62	8.86	26.6 + 3	30	light tan	15.0	14.9	14.9	5.76	5.77	5.79	180.0	179.7	180.6	clear	N/A	1:26 PM
5/9/06	1:36	yes	100-95	54.74	7.24	22 + 3	25	brown	15.0	15.3	15.4	5.75	5.79	5.82	224	227	222	clear	N/A	2:08 PM
5/9/06	3:34	yes	95-90	54.21	6.53	19.6 + 3	23	brown	15.2	15.3	15.4	5.70	5.69	5.68	265	261	259	clear	N/A	4:05 PM
5/9/06	4:15	yes	90-85	54.29	5.71	17.1 + 3	21	clear	15.4	15.4	15.3	6.26	6.22	6.31	361	356	383	clear	N/A	4:53 PM
									15.3	15.3		6.18	6.22		345	354				
5/10/06	8:57 AM	yes	85-80	54.52	4.88	14.6 + 3	18	brown	15.2	15.2	15.1	5.96	6.00	6.02	446	468	474	clear	N/A	9:21 AM
5/10/06	9:44 AM	yes	80-75	54.53	4.07	12.21 + 3	16	light tan	15.7	15.7	15.8	5.85	5.79	5.79	320	338	363		N/A	
									15.4	15.4	15.4	5.76	5.77	5.79	383	397	409	turbid	N/A	10:52 AM
									15.5			5.78			415					

X Sample Not Submitted

ft bis feet below land surface.

Notes on VP-3C (120-115):  
 Rate 1 gpm  
 Turbidity 1V = 50  
 2V = 12  
 3V = 6.8 NTU  
 Rate lowered to sample

Notes on 110-105':  
 Rate 1 gpm  
 Turbidity 1V = 75  
 2V = 24  
 3V = 8.8 NTU  
 Rate lowered to sample

Notes on 100-95':  
 Rate 1 gpm  
 Turbidity 1V = 850  
 2V = 150  
 3V = 45 NTU  
 Rate lowered to sample

Notes on 95-90':  
 Rate 1 gpm  
 Turbidity 1V = 390  
 2V = 55  
 3V = 16  
 Rate lowered to sample

VP-3C: 35 gallons added  
 Start at

Notes on 85-80':  
 Rate 1 gpm  
 Turbidity 1V = 180  
 2V = 50  
 3V = 36 NTU  
 Rate lowered to sample

Notes on 80-75':  
 Rate 1 gpm  
 Turbidity 1V = over range  
 2V = 210  
 3V = 55  
 4V = 37  
 Rate lowered to sample, flow stopped.  
 5V = 29  
 6V = 19  
 7V = 11 NTU  
 Rate increased - sample turbidity increased. (see daily log)

G:\APROJECT\Northrop Grumman\Superfund\2004\NY001348.0304\Inst\GW Sampling\VPB GW Sample Form\Sheet1

Notes on 90-85':  
 Rate 1 gpm  
 Turbidity 1V = 500, 2V = 250,  
 3V = 36, 4V = 16, 5V = 6.9 NTU  
 Rate lowered to sample

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-3C

DATE(S): 5/10/06

SAMPLER: P. Prezorski

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Notes on 75-70' g  
 Rate 1.5 gpm  
 Turbidity  
 1v = over range  
 2v = over range  
 3v = 450  
 4v = 160  
 5v = 120  
 6v = 75  
 7v = 50  
 Turbidity at  
 sample time  
 45 NTU

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
5/10/06	1:55	yes	75-70	54.36	3.30	9.90+3	13	Brown	15.7	15.6	15.6	5.79	5.76	5.76	298	347	399	cloudy	Rep 051006	2:20 PM
									4 15.6	5 15.6	6 15.7	5.74	5.74	5.73	436	448	468			
									7 15.7			5.73			471					
5/10/06	2:59	yes	70-65	54.62	2.46	7.38+3	11	Brown	16.2	15.8	15.8	5.85	5.82	5.80	224	248	266	cloudy	N/A	
									15.7			5.81			275					3:10 PM
5/10/06	3:32	yes	65-60	54.65	1.66	4.98+3	8	Brown	15.9	15.7	15.6	5.85	5.78	5.80	237	226	196.8	tan	N/A	4:36
									15.5			5.79			197.5					

ft bis feet below land surface.

Notes on 70-65'  
 Rate 1.5 gpm  
 Turbidity  
 1v = over range  
 2v = 190  
 3v = 110  
 4v = 90  
 Turbidity at  
 sample time  
 60 NTU

Notes on 60-65'  
 Turbidity  
 1v = over range  
 2v = 650  
 3v = 380  
 4v = 500



VP-3D Samples  
 110-105  
 105-100  
 100-95  
 95-90  
 90-85  
 85-80  
 80-75  
 75-70  
 70-65  
 65-60  
 60-55  
 55-50

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-3D

DATE(S): 5/22/06  
5/23/06  
5/24/06

SAMPLER: P. Prezorski

Page 1 of 1

Notes on 110-105:  
 Rate 1 gpm  
 Turbidity  
 1V = 950  
 2V = 100  
 3V = 36 NTU

Notes on 105-100:  
 Rate 1 gpm  
 Turbidity  
 1V = 180  
 2V = 60  
 3V = 70 NTU  
 At sample time 40 NTU

Notes on 100-95:  
 Rate 1 gpm  
 Turbidity  
 1V = 70  
 2V = 45  
 3V = 18 NTU

Notes on 95-90:  
 Rate 1 gpm  
 Turbidity  
 1V = 60  
 2V = 28  
 3V = 25 NTU

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
5/22/06	10:17 AM	Yes	110-105	53.92	8.9	27+2	29	Brown	16.0	15.7	15.9	6.51	6.27	6.26	157.9	182.5	189.4	clear	N/A	10:55
5/22/06	11:13 AM	Yes	105-100	53.60	8.22	24.7+2	27	Tan then Brown	16.3	16.2	16.2	6.19	6.14	6.15	158.5	173.8	183.7	cloudy	N/A	11:50
5/22/06	11:08 PM	Yes	100-95	53.82	7.4	22.2+2	25	Brown	17.0	16.7	16.8	6.09	6.05	6.05	158.1	177.1	184.6	clear	N/A	1:43
5/22/06	2:03 PM	Yes	95-90	54.62	6.46	19.38+2	22	Brown	16.8	16.4	16.2	6.05	6.03	5.99	143.0	145.8	149.1	clear	N/A	2:45
5/22/06	8:59 AM	Yes	90-85	54.04	5.75	17.25+2	20	Brown	14.1	14.9	14.8	6.06	5.96	5.93	255	169.7	170.8	clear	N/A	9:28 AM
5/23/06	10:07 AM	Yes	85-80	54.00	4.96	14.88+2	17	Brown	15.6	15.9	15.6	6.10	6.05	6.05	180.5	179.7	179.7	clear	N/A	10:35 AM
5/23/06	11:05 AM	Yes	80-75	54.18	4.13	12.39+2	15	Tan then Brown	16.2	15.6	15.6	6.40	6.41	6.36	308	321	323	tan	N/A	11:25
5/23/06	11:49 AM	Yes	75-70	54.00	3.36	10.08+2	12	Brown	16.5	16.8	16.3	6.54	6.53	6.54	315	350	357	tan	N/A	12:39 PM
5/23/06	1:38 PM	Yes	70-65	53.92	2.57	7.7+2	10	Brown	17.3	18.1	18.1	6.65	6.64	6.64	285	309	324	light tan	MS/MSD	1:55 PM
									17.9			6.60			334					
5/23/06	3:28 PM	Yes	65-60	53.92	1.77	5.31+2	8	Brown	18.1	16.5	16.1	6.44	6.43	6.45	290	356	382	light tan	N/A	3:49 PM
									15.8			6.44			390					
5/24/06	9:07 AM	Yes	60-55	53.20	1.1	3.3+2	6	Brown	16.1	16.0	16.5	6.14	6.14	6.14	340	333	335	Brown	N/A	9:55 AM
5/24/06	11:08 AM	New Bailor	56-51	53.62	1.38	1.14+2	3.14	Brown	16.1	15.3	15.4	6.22	6.23	6.27	319	326	333	Brown	N/A	11:39 AM

ft bls feet below land surface.

Notes on 90-85:  
 Rate 1 gpm  
 Turbidity  
 1V = 190  
 2V = 45  
 3V = 40 NTU

Notes on 85-80:  
 Rate 1 gpm  
 Turbidity  
 1V = 500  
 2V = 45  
 3V = 23 NTU

Notes on 80-75:  
 Rate 1 gpm  
 Turbidity  
 1V = over range  
 2V = 450  
 3V = 550 NTU

Notes on 75-70:  
 Rate 1 gpm  
 Turbidity  
 1V = 350  
 2V = 290  
 3V = 950 NTU

Notes on 70-65:  
 Rate 1 gpm  
 turbidity  
 1V = 380  
 2V = 310  
 3V = over range  
 4V = 200 NTU

Notes on 65-60:  
 Turbidity  
 1V + 2V over range  
 3V = 330  
 4V = 180 NTU

Notes on 60-55:  
 Turbidity  
 1V, 2V + 3V over range

Notes on 56-51:  
 Turbidity  
 1V, 2V + 3V over range

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB-4

DATE(S): 8/2 - 8/3 2004

SAMPLER: Sean Chelius

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
8/2/04	1200	Yes	105-110	57.28	8.59	550 + 26 = 576	~600	Clear	18.45	18.49	18.55	5.95	5.94	5.92	0.364	0.363	0.363	Clear	DUP-1	1703
8/3/04	0825	Yes	85-90	57.28	8.59	~26	~30	Dk Tan	18.59	18.56	18.61	6.20	6.21	6.20	0.369	0.369	0.363	Tan	NA	0841
8/3/04	0850	Yes	65-70	58.65	9.55	~28.5	~30	Dk Tan	18.10	18.95	18.76	6.49	6.51	6.51	0.449	0.449	0.448	Tan	NA	0926

Sampling started 1655

0831

0920

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB-5

DATE(S): 8/3 - 8/4 2004

SAMPLER: Sean Chelios

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed		
									1	2	3	1	2	3	1	2	3					
8/3/2004	1130	Yes	105-110	55.00	8.87	400 + 27 = 427 gal	~440	Clear	19.07	18.92	18.76	5.52	5.50	5.51	0.356	0.356	0.355	Clear	MS/MSD	1522	STARTED 1505	
8/4	0932	Yes	85-90	55.65	8.96	~27 gal	~50	Tan	18.57	18.71	18.92	6.46	6.43	6.41	0.349	0.350	0.349	Cloudy	—	1004 <del>0950</del>	0955	
8/4	1020	Yes	65-70	55.33	8.91	~27 gal	~50	Tan	18.50	18.62	18.79	6.53	6.53	6.52	0.199	0.199	0.199	cloudy	—	1048	1046	

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB-6

DATE(S): 8/5/04 - 8/6/04

SAMPLER: SC, SH

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (µmhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
8/5/04	1220	Yes	105-110	55.10	8.94	550 + 27 = 577	~600 GAL	Clear	17.2	16.9	16.81	6.41	6.15	5.89	0.489	0.454	0.447	Clear	N/A	0935
						26 1/2"														
8/5/04	0940	Yes	85-90	56.75	8.68	26 GAL	~50	Tan			16.85			6.23			0.398	cloudy	N/A	1010
8/5/04	1045	Yes	65-70	56.31	8.64	26 GAL	~50	Tan			16.94			6.11			0.452	Tan	N/A	1115

START TIME  
0930

1005

1110

ft bls feet below land surface.



VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-7

DATE(S): 8/3/04 - 8/4/04

SAMPLER: SA

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (µmhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
8/3/04	1200	Yes	105-110	55.85	8.7	26.1	630	Turbid	20.6	—	—	5.33	—	—	.661	—	—	Clear	NA	
Initial: pH - 6.09 / Cond - .281 / Temp - 19.8°C																				
8/4/04	0800	Pump in well from 8/3	- Purged	210 gallons on 8/3/04					—	18.9	18.9	—	5.00	4.98	—	.682	.694	Clear	NA	1015
8/4/04	1040	Yes	85-90	55.85	5.5	16.5	75	Slightly Turbid	18.4	18.1	18.9	5.90	5.80	5.80	.256	.341	.407	Clear	NA	1115
Initial: pH - 5.96 / Cond - .173 / Temp - 19.6°C																				
8/4/04	1137	Yes	65-70	55.85	2.3	6.9	30	Turbid	20.3	19.5	19.5	6.28	6.05	6.07	.651	.152	.157	Clear	NA	1215
Initial: pH - 6.86 / Cond - .316 / Temp - 22.4																				

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-8

DATE(S): 9/16/04

SAMPLER: SA

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
9/10	940	Yes	275-300	58.8	38.7	117/186 304	304	Very Turbid	17.37	17.23	18.32	5.63	5.54	5.58	.079	.078	.077	Clear	NA	1215
			Initial						17.71			5.88			.147			Turb	350	DO 2.55 ms/L
																		Rate	2 gpm	
9/10	1245	Yes	275-280	58.8	35.4	108/186	294	Turbid	18.17	17.88	18.3	5.44	5.38	5.35	.069	.067	.065	Purge	Time	153 mins
			Initial						17.86			5.47			.067			Start	Time	940 am
* Note: pumped 200 gal on 9/10, pumped 100 gal (8:50 am - 10:00 am) on 9/16																				
																		Turb	@ 2"	
																		Well	Volume	- 23.1
																		Purge	Time (275-280)	
																			147	mins
																		Rate	2 gpm	
9/16/04	1030	yes	255-260	58.8	34.4	105+183	288	Slightly Brown	18.07	19.9	19.06	5.10 5.10	5.71	5.77	.074	.075	.074	Clear	-	1:00 pm
									18.07			5.10 5.10			.074	.075	.074			

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP8

DATE(S): 9/16/04

SAMPLER: M. EleFante

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Initial

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
9/16	1:55pm	Yes	295-290	58.8	29	87-183	270		19.14	19.07	17.9	5.85	5.75	5.74	.085	.088	.089	clear	NA	9:00 am 9/12
									18.2			6.29			.085					
9/17/04	9:30am	Yes	226-231	58.8	28	266	220		19.50	20.3	20.2	5.85	5.74	5.77	.087	.089	.096		NA	12:00pm
									18.0			5.85			.088					
9/17/04	12:15pm	Yes	214-209	58.8	25	258	220		19.07			Sampled							NA	well won't yield
									19.04			5.75			.098					
9/20/04	11:00am	Yes	204-209	58.8	24.03	72.1 + 1183 231	255		17.50	19.3	19.02	5.93	5.90	5.70	.121	.123	.127		NA	
									17.98			6.58			.144					
9/20/04	2:15pm	Yes	175-180	58.8	18.60	55.78 + 183 238.8	240		20.05			5.89			.060				NA	
									19.6			6.26			.168					
9/21/04	8:15	Yes	175-180	58.8	18.6	232.8	2240			16.37	17.21		6.20	6.00	.271	.271	.273	clear	NA	9:50
9/21/04	10:15	Yes	155-160	58.8	16	48 + 183 231	232	turbid	18.14	19.80	19.62	5.95	5.91	5.79	.279	.284	.294		NA	
								initial	17.81			5.98	5.91		.178					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-8

DATE(S): 9/21/04 - 9/23/04 SAMPLER: LFT

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
9/21/04	1250	YES	135-140'	58-8	12.8	28.4 + 183 221.4	222	turbid	19.74	20.02	20.14	5.88	5.78	5.65	.309	.322	.332	clear	NA	1445
								initial	19.48			6.11			.163					
9/22/04	9:08	YES	115-120'	58-8	9.6	28.8 + 183 (212)	212	turbid	21.81	17.24	17.66	4.45	5.42	5.55	.276	.237	.245	clear	NA	1055
								initial	10.85			6.58			.188					
9/22/04	11:15	YES	95-100'	58-8	6.4	6.4 + 183 (190)	190	turbid	22.0	20.29		5.75	5.46		.179	.219				
	1250 pumped							initial	19.77/22.61			6.28/5.85			.148/.142					
9/23/04	8:00	YES	95-100'	"	"	"	"				19.22			6.28		.256		clear	NA	9:30
9/23/04	9:55	YES	75-80'	58-8	3.2	9.6	10	slightly turbid	21.50	22.52	23.12	6.37	6.38	6.26	.176	.225	.263	turbid	NA	10:40
								initial	19.77			6.06		<del>6.06</del> 1.97						

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB 9

DATE(S): 8/17/04 - 8/23 SAMPLER: Mary E Elefante

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
8/17/04	9:55	Alconox water	296-301	57.90'	39	240/11 = 340	~350	Slightly Brown	18.8	19.2	19.0	5.76	5.85	6.00	117	117	115	Clear	NA	3:30pm
Initial									18.5			9.06			.107					
8/18/04	9:05	Alconox water	255-260	57.95	32	218+97 = 315	~320	sl. brown w/precip	19.2	19.5	19.5	6.10	6.02	6.11	113	111	107	Clear	NA	2:30pm
Initial									8.29			6.6	6.0	6.02	133	133				
8/19/04	8:30	Alconox water	235-240	57.90	29	218+87 = 305	~310	dark brown w/precip	20.2	21.0	22.3	6.47	6.05	5.90	109	112	113	Clear	NA	11:45am
Initial									20.58			6.48			108					
8/19/04	12:30pm	Alconox water	215-220	57.90	26	218+78 = 296	~300	dark brown w/precip	21.9	22.3	22.2	5.37	5.85	5.97	151	133	139	Clear	NA	3:30pm
Initial									20.3						121					
8/20/04	9:15am	Alconox water	235-240	57.90	23	218+68 = 286	300	Cloudy	23.0	23.2	23.3	6.36	6.27	6.16	109	102	108	Clear	NA	12:30pm
Initial									21.26			6.56			122					
8/20	12:45pm	alconox water	175-180	57.90	20	278	~280	Cloudy	21.6	23.1	20.1	6.30	6.23	6.61	108	109	136	Clear	NA	11:30am (8/23)
Initial									23.8			6.32			105					
8/23	12:00pm	alconox water	153-158	57.90	15	265	270	Brown	23.6	23.3	20.5	6.78	6.00	5.80	113	120	121	Clear	NA	11:15am (8/25)
Initial									22.1			6.86			146					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB9

DATE(S): 8/25/04 - 8/27/04 SAMPLER: ME E. LeFante

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Initial  
Initial  
Initial  
Initial

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume			Purge Volume			Purge Volume					
									1	2	3	1	2	3	1	2	3			
8/25/04	11:35 am	Alconox & water	135-140	57.75	13	257 gal	~260	Brown	21.7	21.2	22.0	5.86	5.80	5.75	.109	.108	.107	Clear	NA	1:35 pm
									19.9			6.03			.114					
8/26	8:00 am	Alconox & water	115-120	52.05	10	250	~250	Cloudy/Brown	19.7	20.5	21.3	6.57	5.87	5.64	.181	.201	.201	Cloudy w/ silt	NA	11:00 am
									16.51			6.54			.154					
8/26/04	11:25 am	Alconox & water	75'-100'	59.52	7	238	~240	Thick Brown Silty	20.0	20.9	19.9	5.63	5.45	5.41	.258	.287	.296	Clear w/ fine sand	NA	1:55 pm
									20.8			6.43			.200					
8/26/04	2:15 pm	Alconox & water	75'-80'	changing to quick	4	230	230		20.1	21.4		6.09	6.42		.282	.214			NA	
									20.8			6.07			.295					
8/27/04	8:16	Yes	75-80	58.05	4	230	100	Thick/Brown	-	21.4	20.34	-	6.42	6.32	-	.214	.187			
									20.7	21.0	20.9	6.23	6.29	6.03	.178	.170	.171	Clear	NA	09:55
									21.2	20.9	21.9									
8/27/04	10:17	Yes	65-70	58.05	2	6	6.2	Very Turbid	21.57	20.94	20.90	6.34	6.45	6.50	.151	.230	.235	Very Turbid	-	11:56

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-10

DATE(S): 8/19/04 - 8/23/04

SAMPLER: LFT

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume			Purge Volume			Purge Volume					
								1	2	3	1	2	3	1	2	3				
8/19/04	8:44	yes	145-150	58.2	14.69	44.06	302	brown turbid	19.95	19.01	19.24	5.97	5.86	5.84	.132	.138	.136	clear	NA	1130
	initial reading		ph 6.66	kmp 18.14	cond .098															
8/19/04	1255	yes	125-130	57.8	11.55	34.66	292	brown turbid	21.03	19.8	19.45	4.67	5.29	5.47	.190	.140	.134	clear	NA	1545
	initial reading		ph 6.36	kmp 19.37	cond .105															
8/20/04	8:40	yes	105-110	57.8	8.35	25.06	282	turbid	19.77	20.02	20.49	6.03	5.94	5.82	.124	.117	.128	clear	NA	1120
	initial reading		ph 6.23	kmp 19.15	cond .124															
8/20/04		yes	85-90	57.8	5.15	15.46	273	turbid	19.68	18.94	19.73	5.97	5.79	5.63	.153	.165	.166	clear	NA	1500
	initial reading		ph 6.94	kmp 25.10	cond 2.68															
8/23/04	8:00	yes	65-70	57.8	1.95	5.86	6	turbid	20.22	18.53	18.9	6.21	6.09	5.97	.191	.172	.185	turbid	NA	8:40
	initial reading		ph 6.19	kmp 17.91	cond .193															

ft bls feet below land surface.





VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VPB 11

DATE(S): 8/30/04-8/31/04 SAMPLER: MFE

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Initial

Initial

Initial

Initial

Initial

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (µmhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
8/30/04	10:10 am	Akonox water	145-150	58.15	15	45+225 290	~270	Foamy/Brown	20.7	20.0	21.0	6.61	6.43	6.25	167	142	140	Clear	NA	12:15pm
									20.7			7.07			38					
8/30	12:45pm	Akonox water	125-130	58.15	12	36+225 261	~265	Silty	20.2	22.0	21.5	5.81	5.77	5.88	188	191	190	Clear	NA	2:30pm
									20.9			6.31			150					
8/30	3:05pm	Akonox water	105-110	58.15	8	24+225 250	~250	Brown	22.0	19.8	22.0	6.25	4.55	5.4	357	398	390	Clear	NA	10:30am (8/31)
									21.5			7.21			142					
8/31/04	10:55		85-90	58.24	5	15+225 240	~240	Brown Silty/Sand	20.3	20.7	20.8	6.46	6.57	6.64	122	127	127	Clear	NA	1:20pm
									20.6			5.88			385					
8/31/04	1:35		65-70	58.25	2	6	~7	Silty Brown	25.8	25.4	25.9	6.85	6.88	6.88	368	365	404	Cloudy	NA	3:00pm
									25.2			7.23			233					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-12

DATE(S): 8/30 - 8/31/04

SAMPLER: LFT

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (µmhos/cm) <sup>ms/cm</sup>			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
8/30/04	10:18	yes	150-155	56	15.84	47.52	296	turbid	18.48	19.44	20.39	5.48	5.60	5.66	.265	.258	.251	clear color 44	N/A	1215
		initial	pH 5.42	Temp 19.16	Cond. 201															
8/30/04	1240	yes	130-135	56	12.64	37.92	286	turbid	19.77	20.0	20.20	6.33	6.19	6.07	.187	.241	.253	clear color 61	N/A	1540
		initial	pH 6.09	Temp 20.28	Cond. 103															
8/31/04	8:40	yes	110-115	56	9.44	28.32	276.32	turbid	18.58	18.56	18.64	6.34	6.40	6.44	.331	.358	.365	clear color 61	N/A	1050
		initial	pH 6.50	Temp 18.75	Cond .260															
8/31/04	1115	yes	90-95	56	6.24	18.72	266.72	very turbid	20.60	19.21	19.76	6.57	6.62	6.65	.458	.498	.541	clear color 61	N/A	1310
		initial	pH 6.67	Temp 19.19	Cond. 229															
8/31/04	1340	yes	70-75	56	3.04	9.12	10	very turbid	19.52	18.59	18.25	6.77	6.57	6.62	.300	.365	.327	slightly turbid	N/A	1350
		initial	pH 6.88	Temp 21.98	Cond. 241															

ft bis feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-12A

DATE(S): 6/8/06  
6/9/06

SAMPLER: Prezosti

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft b/s)	Depth to Water (ft b/s)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
6/8/06	3:27	yes	(70-75)	50.53	3.91	12 + 9	21	Brown	17.0	16.8	16.7	5.73	5.82	5.82	786	835	842	light tan	MS/MSD	3:59 pm
6/9/06	4:16	yes	(60-65)	50.55	2.31	6.9 + 9	16	Brown	17.2	17.2	17.2	5.98	5.87	5.89	309	349	390	colorless	Rep 060806	4:51 pm
									17.2	17.2		5.86	5.89		449	459				
6/9/06	8:50 <sup>AM</sup>	yes	(55-60)	50.90	1.46	4.4 + 9	14	Brown	17.2	16.7	16.6	6.05	5.90	5.91	396	456	486	colorless	N/A	9:37 <sup>AM</sup>
									16.6	16.6	16.9	5.91	5.93	5.92	512	536	557			
									16.7			5.90			567					
6/9/06	10:00	yes	(50-55)	50.53	.72	2.2 + 9	12	Brown	17.1	16.9	16.9	6.15	6.14	6.15	218	185.4	189.5	tan	N/A	10:52

Notes on 70-75':  
 Turbidity at  
 1v = 850  
 2v = 360  
 3v = 190 NTU

Notes on 60-65':  
 Turbidity at  
 1v = over range  
 2v = 65  
 3v = 25  
 4v = 14  
 5v = 9 NTU

Notes on 55-60':  
 Turbidity at  
 1v = 400  
 2v = 260  
 3v = 210  
 4v = 140  
 5v = 130

6v = 90  
 7v = 90

Notes on 50-55':  
 Turbidity  
 1v = over range  
 2v = over range  
 3v = 500 NTU

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-13

DATE(S): 1/12/05 - 1/14/05

SAMPLER: KFT

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed	Remarks							
									1	2	3	1	2	3	1	2	3											
1/12/05	8:30	YRJ	105-110	55.8	8.67	176.02	2180	turbid	14.6	13.9	14.1	5.93	5.59	5.35	5.49	5.35	5.45	Clear	-	11:05								
initial									13.9			6.77			1.244													
1/12/05	12:15	YRJ	95-100'	55.8	7.07	171.22		turbid	-----																			
initial									13.0			6.14			.241							*stopped wouldn't go						
1/12/05	14:05	-	92-97'	55.8	6.59				8.2			6.37			.297							*stopped wouldn't go						
initial								initial	14.8			6.33			.301							* refer to notes on sampling technique						
1/13/05	10:20	YRJ	92-97'	55.8'	-	-	-	initial	15.0	15.9	16.6	6.62	6.47	6.40	.305	.325	.331	turbid	-	10:40								
1/13/05	11:00	YRJ	85-90'	55.8	5.47	+250 266.4			stopped due to poor zone for pumping; refer to notes																			to pumped 30901
initial									15.1			6.23			.334													
1/13/05	11:35	"	80-85'	55.8	4.672	+220 234.02			stopped due to poor pumping; refer to notes																			
initial									12.3			6.65			.403													
1/14/05	10:00	YRJ	80-85	50.1	4.672	+100 214.01																						
initial									12.8			6.75			.375													

ft bls feet below land surface.

↳ about sampling VP-13, going to redrill a few feet away to 85' bls and sample

\* look @ field log

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-13 (2)

DATE(S): 1/25/05 - 1/26/05

SAMPLER: XFT

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm) <sup>s/cm</sup>			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume			Purge Volume			Purge Volume					
									1	2	3	1	2	3	1	2	3			
1/25/05	1350	yes	80-85'	55.8	4.672	204.94		turbid	13.5			5.88			1.13	1		-	-	-
initial			100 gallons of 205 pumped						13.7			7.10			.352					
1/26/05	845	yes	80-85'	55.8	4.672	104.3	~206	turbid		14.0	13.7		5.75	5.59		1.20	1.23	clear	-	10:00
initial									14.8			5.94			1.18					
1/26/05	1020	yes	70-75'	55.8	3.072	150 159	~160	turbid	13.3	13.8	14.2	5.96	5.92	5.98	5.63	5.79	5.44	clear	-	1340
initial									13.0			6.25			.215					
1/26/05	1400	yes	60-65'	55.8	1.47 <del>4.47</del>	4.47	~6	turbid	9.8	12.9	11.8	7.23	6.76	6.74	1.223	.306	.346	turbid	-	1415
initial									7.7			7.39			.179					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-14

DATE(S): 1/6/05/1/7/1/10/1/11  
 475 gal used  
 add 125 gal for  
 26/125 120, 110, 100, 90, 80

SAMPLER: YPT

Page 1 of 2

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
1/6/05	1415	YES	115-120	60.75	9.48	123.44	125	slightly turbid	13.4			6.58			.336					
initial						stopped @ 41 gallons	pumped		12.1			8.60			.055					
1/7/05	845	YES	115-120	60.75	11				13.6	13.3		6.36	6.51		.781	.968	clear	-	9:55	
1/7/05	10:15	YES	105-110	11	7.84	118.64	~120	slightly turbid	14.1	14.4	14.3	6.13	6.37	6.09	510	506	529	clear	-	13:15
initial									12.7			6.72			.256					
1/7/05	1335	YES	95-100	11	6.28	113.84		slightly turbid	13.1	15.1		6.31	6.25		.516	.489				
initial						stopped @ 80 gal			14.6			7.10			.191					
1/10/05	830	YES	95-100	11	11	~40 gal					14.0		6.43		.444	clear	-	9:10		
initial									13.8			7.23			.608					
1/16/05	9:35	YES	85-90	60.75	4.68	109.04		slightly turbid	12.5	14.0		6.40	6.58		6.40	.413				
initial						pulled out 80 gallons			11.2			7.21			.216					
1/11/05	8:10	YES	185-90'	60.75	11						11.1		6.52		.429	clear	-	9:50		
initial									9.0			7.21			.512					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-14

DATE(S): 1/11/05

SAMPLER: XFT

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
1/11/05	10:15	yes	75-80	60.75	1.925	100.78	~101	slightly turbid	13.0	14.1	13.4	6.53	6.44	6.54	1.09	.790	1.15	clear	-	11:45
initial									12.1			6.76			.257					
1/11/05	12:15	yes	65-70	60.75	1.48	4.444	69cl	turbid	13.6	14.2	14.0	6.49	6.46	6.31	.650	.625	.640	turbid	-	1:30
initial									11.5			6.78			.509					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-14A

DATE(S): 6/22/06

SAMPLER: Prozortti

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
6/22/06	9:50 <sup>AM</sup>	yes	(70-75)	56.42	2.97	8.91+10	19	Brown	19.6	19.4	18.9	5.79	5.88	5.94	664	586	595	cloudy	N/A	10:24 <sup>AM</sup>
6/22/06	11:08 <sup>AM</sup>	yes	(60-65)	56.42	1.37	4.11+10	15	Brown	19.9	19.3	19.4	5.63	5.57	5.57	1896 <sup>MS</sup>	2.27 <sup>MS</sup>	2.41 <sup>MS</sup>	cloudy	N/A	11:53 <sup>AM</sup>
6/22/06	1415	Back	(55-60)	56.35	.58	1.8		Brown	19.9	19.5	18.5	5.54	5.54	5.50	1597	1509	1443	Brown	N/A	1500
									19.5			5.57			2.48					

ft bis feet below land surface.

Notes on VP-14A  
 40 gal used on well

(70-75):  
 Turbidity of  
 1V = 1000  
 2V = 650  
 3V = 330  
 Purge rate 1 spm  
 Rate lowered to sample

(60-65):  
 Turbidity of  
 1V = 750  
 2V = 400  
 3V = 250  
 4V = 160 NTU  
 Purge rate .5 spm  
 Rate lowered to sample

(55-60):  
 Turbidity of  
 1V, 2V & 3V & 4V  
 over range



VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-15

DATE(S): 1/4/05 - 1/6/05

SAMPLER: LFT

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† 100 for (110, 100)  
 4 zones 90, 80

ms/cm

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (ms/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
1/4/05	9:25	yes	105-110'	56.85	8.22	125	727	slightly turbid	15.6	15.2	15.6	7.38	5.64	5.58	.208	.239	.244	clear	—	11:45
initial									22.8			8.65			.073					
1/4/05	1250	yes	95-100	56.85	6.90	120.70	50 gal	slightly turbid	15.1			6.45			.244			—	—	—
initial							stopped		15.3			6.27			.208					
1/5/05	8:20	yes	95-100 cont'd	"	"	"	70 gal			16.1	13.9		6.59	6.67	.248	.243		clear	—	9:30
1/5/05		yes	85-90	56.85	5.3	115.9	116	slightly turbid	11.7	13.7	13.5	6.44	6.34	6.38	.285	.267	.291	clear	REP. 1.5.05	1715
initial									17.0			6.45			.244					
1/5/05	1440	yes	75-80	56.85	3.7	111.11	~60	turbid	13.9			6.35			.401	.v				
initial									12.8			6.49			.271					
1/6/05	8:40	yes	75-80	56.85	"					12.6	13.5		6.96	6.48	.457	.407		clear	—	9:30
1/4/05		yes	65-70	56.85	2.10	6.31			11.4	12.2	11.5	6.39	6.49	6.56	.319	.325	.334	clear	—	10:15
initial									11.6			7.28			.110					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-15A

DATE(S): 6/26/06

SAMPLER: Seamless Chelidon

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$(G \times 3) + 1.026$  parameters

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	x0.16 Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
6/26/06	11:00a	✓	60-65	53.28	1.88	40.63	50G	Turbid	17.8	17.8	17.7	5.82	5.82	5.83	211	213	219	clear	✓	11:25
6/26/06	13:10	✓	55-60	52.3	1.23	38.69	45G	Turbid	18.7	18.8	18.7	5.76	5.70	5.65	245	248	251	turbid	—	13:40
6/26/06	14:15	✓	50-55	52.9	0.34	36.01	8	Turbid	18.8	18.0	17.8	5.70	5.73	5.65	253	252	251	turbid	—	15:15
<del>6/26/06</del>																				

Rate ~ 0.5 G/min  
 Rate ~ 1.5 G/min  
 → Boiled  
 $(G \times 3 = 1.026)$   
 $0.34 \times 3 = 1.026$

ft bis feet below land surface.



CNTU) Turbidity 1 2 3  
 (60-65) 100 75 50  
 (55-60) 100 50 2100  
 (50-55) 2100 2100 2100

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-16

DATE(S): 12/17/04

SAMPLER: JC

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(145.0)

*ms/cm*

Date	Start Time	Pump Decon. Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
12/17/04	11:30am	Yes	105'-110'	55.78	8.68	171.04	~175	A little turbid	14.4	15.0	13.8	5.72	5.48	5.14	0.256	0.260	0.257		NA	
Initial									12.4			6.64			0.086					
12/20/04	11:30am	Yes	95'-100'	55.78	7.08	166.24	~170	Turbid	11.9	14.0	6.2	5.87	5.89	5.69	0.297	0.363	0.320		NA	
Initial									7.3			6.25			0.265					
12/21/04	10:30am	Yes	85'-90'	55.78	5.48	161.44	~165	Turbid	13.4	9.0	14.0	6.08	6.38	6.25	0.555	0.569	0.584		NA	
Initial									12.6			5.95			0.244					
1/3/05	10:30am	Yes	75'-80'	56.30	3.79	156.38	~160	Turbid	15.7	15.7	16.1	6.16	6.30	6.29	0.416	0.430	0.432		NA	
Initial									15.7			5.70			0.432					
1/3/05			65'-70'	56.30	2.19	6.58			17.3	16.9	16.9	6.58	6.43	6.38	0.288	0.283	0.296		NA	
Initial									21.0			7.47			0.120					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-16A

DATE(S): 6/20/06

SAMPLER: Prezowski

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
6/20/06	11:01 AM	yes	(60-65)	50.89	2.26	7 + 12	19	Brown	18.6	17.8	17.8	5.99	6.00	6.03	595	596	602	Clear	N/A	11:29 AM
6/20/06	11:46	yes	(55-60)	50.02	1.6	4.8 + 12	17	Brown	18.6	18.1	17.7	6.18	6.03	6.06	678	683	691	Clear	N/A	12:10
6/20/06	1:44 PM	Bailer	(48-53)	50.84	.34	1	1	Brown	19.0	17.5	17.6	6.41	6.43	6.45	620	701	747	Brown	N/A	15:20
—	—	—	—	—	—	—	—	—	17.4	—	—	6.46	—	—	755	—	—	<del>Brown</del>	<del>N/A</del>	—

ft bls feet below land surface.

Notes on VP-16A  
 35 gal water used on well

(60-65):  
 Turbidity at  
 1V = 280  
 2V = 140  
 3V = 85 NTU  
 Purge rate 19 ppm  
 Rate lowered to sample.

(55-60):  
 Turbidity at  
 1V = 120  
 2V = 75  
 3V = 65 NTU  
 Purge Rate 15 ppm  
 Rate lowered to sample.

(48-53):  
 Turbidity  
 over-range at  
 1V, 2V & 3V

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-17

DATE(S): 11/22/04 - 11/23/04

SAMPLER: KFT

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (µmhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
11/22	1230	YES	<del>105-110</del> 110-100	60	8	93	2100	turbid silty	16.3	16.5	16.2	6.60	5.63	5.45	.196	.174	.150	clear colorless	NA	
initial									16.7			7.18			.476					
11/22	1350	YES	95-100	60	6.4	88.2	290	turbid silty	16.3	16.2	16.0	5.98	5.61	5.55	.259	.271	.268	turbid	NA	
initial									15.7			6.22			.150					
11/23/04	8:45	YES	85-90	60	4.8	83.4	~90	turbid silty	16.1	15.6	15.8	6.24	5.70	5.74	.326	.301	.300	clear	NA	
initial									16.1			6.55			.306					
11/23/04	10:00	YES	75-80	60	3.2	78.6	~80	turbid silty	16.1	14.1	16.3	6.14	5.96	5.95	.242	.299	.331	clear	NA	
initial									15.1			6.19			.220					
11/23/04	<del>11:10</del> 11:10	YES	65-70	60	1.6	4.8	~6	turbid silty	16.5	16.6	16.6	6.14	6.17	6.14	.327	.286	.275	slightly turbid	NA	
initial									15.0			6.12			.326					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-18

DATE(S): 11/23/04 - 11/30/04

SAMPLER: KFT

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (µmhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume			Purge Volume			Purge Volume					
									1	2	3	1	2	3	1	2	3			
11/23/04	1310	yes	105-110	60	8	93	~110	turbid brown	15.2	15.9	15.9	6.35	5.42	5.36	.144	.145	.152	clear	NA	
initial									15.5			6.78			.145					
11/23/04	1410	yes	95-100	60	6.4	88.2	~90		17.4			6.22			.196					
initial									15.8			6.06			.135					
	9:05	going to start VP-18	95-100					@ the start of purging the second well volume												
11/29/04	10:15	yes	95-100	60	6.4	88.2	~90	turbid		15.7	16.1		6.10 <del>5.97</del>	5.91	.234	.234	.227	clear	NA	12:10
initial									13.8			5.27			.254					
11/29/04	1350	yes	85-90'	60'	4.8	83.4	~85	turbid	15.0	15.4	14.9	6.18	5.87	5.71	.214	.221	.218	clear	NA	15:20
initial									14.9			6.18			.216					
11/30/04	9:10	yes	75-80'	60'	3.2	78.6	~80	turbid	15.9	15.7	15.8	5.87	5.59	5.48	.155	.152	.150	clear	NA	10:15
initial									15.7			6.51			.202					
11/30/04	1045	yes	65-70'	60'	1.6	4.8	~6	turbid	15.2	16.2	16.3	6.04	5.90	5.86	.219	.244	.247	slightly turbid	NA	11:02
initial									15.5			6.53			.141					

ft bls feet below land surface.



VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-19

DATE(S): 12/15/04 - 12/17/04 SAMPLER: SC

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umho/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
12/15/04	11:10am	Yes	105'-110'	58.5'	2.24	93.5	~100	Turbid	13.5	13.0	13.0	5.81	5.41	5.42	0.143	0.149	0.141		NA	
Initial	11:10am								12.9			6.25			0.249					
12/15/04	12:40p	Yes	95'-100'	58.5'	8.64	88.67	~100	Turbid	13.8	13.0	12.5	5.85	5.86	5.55	0.115	0.115	0.115		NA	
Initial									13.0			6.25			0.125					
12/16/04	9:05am	Yes	85'-90'	58.5'	5.04	83.87	~100	Turbid	12.2	12.7	11.3	5.81	5.76	5.64	0.201	0.194	0.193		NA	
Initial									12.0			6.21			0.245					
12/16/04	11:15am	Yes	75'-80'	59.0'	3.36	78.87	~80	Turbid	13.8	13.9	13.0	5.63	5.57	5.43	0.250	0.255	0.260		NA	
Initial									12.9			6.24			0.074					
12/17/04	9:40am	Yes	65'-70'	59.0'	1.76	5.28	~10	Turbid	13.8	13.8	14.1	5.68	5.60	5.48	0.262	0.259	0.250		NA	
Initial									12.9			5.82			0.259					

ft bls feet below land surface.



VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VR-19A

DATE(S): 5/12/06  
5/15/06

SAMPLER: P. Prozorak

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
5/12/06	1:48 pm	yes	70-75	52.84	3.54	10.64 + 7	18	Brown	15.6	15.5	15.4	5.41	5.32	5.32	265	303	329	clear	Rep 05/206	2:55 pm
									15.5	15.5	15.5	5.26	5.26	5.26	362	374	397			
									15.5			5.24			393					
5/12/06	3:10 pm	yes	60-65	53.26	1.88	5.64 + 7	13	Light Brown	15.5	15.4	15.4	5.83	5.85	5.81	339	341	344	clear	N/A	3:45 pm
									15.4			5.87			345					
5/15/06	1:05 pm	New Bailers	51-56	53.10	.464	1.39 + 7	9	Dark Grey	14.6	14.7	14.7	6.53	6.67	6.68	492	596	676	Grey	N/A	2:45 pm
									14.8			6.69			605					

ft bis feet below land surface.

Notes on 70-75':  
 Rate 19 pm  
 Turbidity 1V = over range,  
 2V = 110, 3V = 55,  
 4V = 50, 5V = 27,  
 6V = 23, 7V = 26 NTU  
 rate lowered to sample  
 + 0.035 mg/L S2-

Notes on 60-65':  
 Rate 15 pm  
 Turbidity 1V = 250,  
 2V = 100, 3V = 55,  
 4V = 45 NTU  
 Rate lowered to sample,  
 0.037 mg/L S2-

Notes on 51-56':  
 0.195 mg/L S2-  
 Bailed.  
 Turbidity at 1V, 2V, 3V over range.  
 Turbidity taken at sample time = 250 NTU (from bailer)

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-20

DATE(S): 11/30/04 - 12/2/04

SAMPLER: KFT

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (µmhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
11/30/04	1500	yes	105-110	58.1	8.304	187.41		turbid	15.4			5.97			.142				NA	
initial									15.7			6.89			.089					
12/1/04	8:15	yes	105-110	58.1	8.304	187.41	190	turbid		16.1	15		6.62	5.72		.138	.144	decr	NA	9:15
initial																				
12/1/04	11:00	yes	95-100'	58.1	6.704	182.61	185	turbid	14.5	14.9	15.1	5.79	5.47	5.42	.178	.198	.207	decr	NA	14:40
initial									14.7			6.07			.155					
12/2/04	8:45	yes	85-90'	58.1	4.8	167.3	~170	turbid	13.1	14.3	14.2	5.92	5.54	5.40	.199	.195	.195	decr	TP 12.2.04	10:55
initial									16.1				5.62		.260					
12/2/04	12:15	yes	75-80'	58.1	3.2	165.7	2170	turbid	14.4	14.5	14.1	5.91	5.68	5.56	.178	.186	.194	decr	NA	14:00
initial									13.7			6.27			.177					
12/2/04	1500	yes	65-70'	58.1	1.90	5.7	6	turbid	13.6	13.5	13.5	6.21	6.30	6.37	.153	.138	.126	turbid	NA	15:55
initial									10.4			6.09			.143					

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP21

DATE(S): 06/06/05

SAMPLER: John Corral

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm) <sup>mS/cm</sup>			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
6/06/05	10:30	yes	105-110	52.5	9.12	28 gal + 55 gal = 83 gal	83 gal	cloudy	20.2	19.9	21.0	5.61	5.60	5.61	165.7	172.3	177.7	clear	NA	11:30
6/06/05	12:30	yes	103-98	/	8.00	24 gal + 55 gal = 79 gal	79 gal	cloudy	23.0	20.6	20.8	5.79	5.83	5.73	183.9	182.5	195.0	clear	NA	2:06
6/09/05	8:30	yes	93-88	53.4	6.40	19 gal + 55 gal = 74 gal	26 gal	cloudy	21.9	20.2	20.1	5.43	5.41	5.48	371.1	335.1	322.2	turbid	NA	10:30
6/09/05	10:40	yes	84-79	53.4	4.96	15 gal + 55 gal = 70 gal	10 gal	cloudy	23.4	22.8	21.4	5.63	5.73	5.78	335.1	326.1	439.1	turbid	NA	11:30
6/09/05	11:40	yes	70-65	53.4	2.72	8 gal + 55 gal = 63 gal	6 gal	cloudy	27.7	27.5	24.7	5.66	5.93	6.07	492.1	485.1	487.1	turbid	NA	1:00
6/09/05	1:20	yes	55-60	53.4	1.28	4 gal + 55 gal = 59 gal	3 gal	cloudy	19.5	18.6	18.8	5.98	5.99	6.00	268.1	169.1	169.1	turbid	NA	1:50

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP22

DATE(S): 06/16/05

SAMPLER: John Corral

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\*5/cm

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (µmhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
06/16/05	8:35	yes	105-110	52.8	9	42+28 = 70	70	clear	17.1	17.2	17.1	4.90	5.28	5.42	364	332	345	clear	-	9:15
06/16/05	9:25	yes	95-100	52.92	8	42+24 = 66	66	clear	17.9	18.1	18.1	5.52	5.42	5.16	321	353	358	clear	-	10:30
06/16/05	10:40	yes	83-88	53.5	6	18+42 = 60	15	turbid	18.6	18.0	18.1	5.73	5.64	5.88	306	<del>278</del>	211	turbid	-	11:20
06/16/05	11:30	yes	75-80	52.8	4.5	42+14 = 56	15	turbid	19.1	19.0	18.9	6.20	6.12	5.83	212	220	207	turbid	-	11:55
06/16/05	12:00	yes	65-70	52.6	3	42+9 = 51	9	turbid	23.7	19.7	19.1	6.20	6.31	6.18	218	215	211	turbid	-	12:40
06/16/05	12:50	-	52-57	52.8	1	42+3 = 45	3	turbid	17.8	17.8	18.0	6.03	6.24	6.23	166	160	155	turbid	-	1:16

ft bls feet below land surface.



VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: UP-23A

DATE(S): 10/12/06

SAMPLER: Scherwin

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10G = (G) of water added into well.

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
10/12/06	11:35	✓	62-67	51.3	67-51.3 = 15.7 x 1.6 = 25.12	2.51 x 3 = 7.53	~200G	Turbid	18.1	17.6	17.5	5.49	5.72	5.82	0.53	0.410	0.409	Turbid	—	11:50
	12:15	✓	57-62	52.0	62-52 = 10 x 1.6 = 16	1.6 x 3 = 4.8	~200G	Turbid	18.1	17.7	17.5	5.95	5.97	5.96	0.644	0.649	0.650	Clay	—	12:25

DTW  
 White pumping ~ 52.3' bls  
 (Draw Down) ~ 52.7' bls

ft bls feet below land surface.

Well (Depth) | Turbidity (ntu)

62-67 (Est parameter) 711.00  
 (2nd P) 888  
 (3rd P) 429

57-62 (Est P) 711.00  
 (2nd P) 564  
 (3rd P) 844

*[Handwritten initials]*

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP24

DATE(S): 06/14/05

SAMPLER: John Corral

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*mS/cm*

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
06/14/05	9:15	yes	105-110	53.4	9.12	$28+67=95$	95	clear	19.2	19.0	19.1	5.00	5.57	5.66	376	373	347	clear	-	10:50
06/14/05	11:00	yes	94-99	53.6	8	$24+67=91$	25	turbid	19.8	21.2	19.6	5.96	5.93	5.86	188	300	320	turbid	-	12:00
6/14/05	12:50	yes	83-88	53.3	5.6	$17+67=84$	17	turbid	19.7	24.9	19.3	6.10	6.24	6.14	339	364	303	turbid	-	1:45
6/14/05	2:00	yes	73-78	53.6	4	$12+67=79$	79	clear	20.0	18.3	18.2	6.40	6.31	6.32	372	362	364	clear	-	2:40
6/14/05	2:50	yes	63-68	53.6	2.1	$7+67=74$	7	turbid	22.0	21.2	22.0	6.48	6.35	6.18	353	330	324	turbid	-	3:30
6/14/05	3:50	-	53-58	53.6	1	$3+67=70$	3	turbid	19.9	19.4	18.3	6.15	6.10	6.00	389	427	448	turbid	-	4:30

ft bls feet below land surface.

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-25

DATE(S): 6/13/05

SAMPLER: John Corral

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
6/13/05	10:40	yes	100-95	54.35	8		<del>25</del>	turbid	19.9	21.7	19.3	5.04	5.41	5.41	239	229	216	slightly cloudy	-	11:50
6/13/05	12:00	yes	88-90	54.3	7		<del>20</del>	turbid	25.8	24.1	24.7	5.92	5.95	5.91	217	223	180	turbid	-	1:15
6/13/05	1:30	yes	75-80	54.6	4		<del>15</del>	turbid	23.2	22.4	25.1	5.88	5.92	5.98	163	163	197	turbid	-	2:15
6/13/05	2:25	yes	65-70	54.6	2.6		<del>10</del>	turbid	23.9	23.8	23.3	6.03	6.07	4.78	280	316	406	turbid	Rep 06/13/05	3:20
<del>6/13/05</del>	<del>3:00</del>	-	<del>54-54</del>				<del>4</del>				22.7		5.83			340				
6/13/05	3:40	-	54-54	54.6	0.8		<del>3</del>	turbid	19.2	19.3	19.1	6.34	6.33	6.31	115	110	112	turbid	-	4:30

ft bls feet below land surface.







VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-27A

DATE(S): 5/17/06

SAMPLER: P. Prezorski

Page 1 of 1

Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
5/17/06	9:21 AM	yes	70-75	53.53	3.43	10.29 + 10	21	Brown	16.5	16.1	16.0	6.36	6.11	6.01	192.6	198.9	225	clear	N/A	10:11 AM
—	—	—	—	—	—	—	—	—	16.0	16.1	—	6.03	5.98	—	238	239	—	—	—	—
5/17/06	10:45 AM	yes	60-65	53.70	1.81	5.4 + 10	16	Brown	16.6	16.7	16.3	6.43	6.45	6.47	452	475	484	clear	N/A	11:43
—	—	—	—	—	—	—	—	—	16.8	16.6	16.1	6.45	6.50	6.50	491	489	479	—	—	—
—	—	—	—	—	—	—	—	—	16.2	—	—	6.50	—	—	474	—	—	—	—	—

ft bis feet below land surface.

Notes on VP-27A 70-75'

Rate 1 gpm  
 Turbidity  
 1v = 400  
 2v = 65  
 3v = 45  
 4v = 25  
 5v = 23 NTU 52-  
 0.024 mg/L

Notes on VP-27A 60-65'

Turbidity  
 1v = 850  
 2v = 370  
 3v = 240  
 4v = 95  
 5v = 65  
 6v = 60  
 7v = 45  
 At sample time 39 NTU  
 0.042 mg/L 52-















VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-34

DATE(S): 6/16/06

SAMPLER: Prezorski

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3	Purge Volume 1	Purge Volume 2	Purge Volume 3			
6/16/06	9:32 AM	Y92	(62-67)	51.65	2.456	8+12	20	Brown	18.5	18.1	17.9	5.50	5.57	5.68	383	358	368	clear	N/A	10:04 AM
									17.9			5.74			364					
6/16/06	10:33 AM	Y92	(57-62)	51.75	1.64	5+12	17	Brown	19.6	18.6	18.7	5.62	5.54	5.49	143.8	139.8	136.6	clear	N/A	10:57 AM
6/16/06	13:25	Bailer	(52-57)	51.64	.86	2.6	3	Brown	19.0	18.0	17.4	5.69	5.68	5.65	166.5	162.3	164.2	Brown	N/A	1400
6/16/06	15:34	Bailer	(50-55)	51.68	.53	1.6	2	Brown	18.6	18.6	18.0	5.54	5.46	5.66	167.4	152.8	159.0	Brown	N/A	1610
									18.3			5.56			157.0					

ft bls feet below land surface.

Notes on:  
 35 gal used on borehole

(62-67')  
 Turbidity of  
 1V = 400  
 2V = 210  
 3V = 80  
 4V = 45  
 Purge rate 1 gpm  
 Rate lowered to sample

(57-62')  
 Turbidity of  
 1V = 140  
 2V = 55  
 3V = 21  
 Purge rate 1 gpm  
 Rate lowered to sample

(52-57')  
 Turbidity all over range  
 Sample discarded  
 (50-55')  
 Turbidity all over range

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-35

DATE(S): 10/13/08

SAMPLER: D. Zeh

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bis)	Depth to Water (ft bis)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH/Turb			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									Purge Volume			Purge Volume			Purge Volume					
									1	2	3	1	2	3	1	2	3			
10/13/08	1409	yes	67'	51.40'	2.9	≈ 7.5 + 6.6 (14)	<del>10</del> (22.5)	Turbid	14.8	14.23	14.29	5.40	5.80	5.86	368	281	280	turb.	N/A	1430
10/13/08	1457	yes	62'	51.40'	1.7	5.25 + 3.75	(9 gal)	Turbid	15.01	15.04	15.07	6.05	6.00	6.10	213	251	249	clear	Rep 10-13-08	1510
10/13/08	1536	yes	56'	51.90'	0.65	≈ 2.9 gal + 2.3	≈ (4.5)	Turbid	16.2	16.1	15.8	6.16	6.15	6.19	223	248	259	Turb	N/A	1605

Turb > 500 unit not working

ft bis feet below land surface.

$20 \text{ gal} / 9_v = 2.22 \text{ gal}$

VERTICAL PROFILE BORING GROUNDWATER SCREENING  
 OPERABLE UNIT 3 REMEDIAL INVESTIGATION  
 NORTHROP GRUMMAN CORPORATION  
 BETHPAGE, NEW YORK

VPB DESIGNATION: VP-36

DATE(S): 6/14/06  
6/15/06

SAMPLER: Prezorski

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Date	Start Time	Pump Decon Prior to Sampling	Stainless-Steel Screen Depth (ft bls)	Depth to Water (ft bls)	Gallons in Well	Purge Volume (gallons) (3 well volumes)	Total Volume Purged	Initial Sample Appearance	Temperature (C)			pH			Conductivity (umhos/cm)			Final Sample Appearance	Coded Replicate	Time Sampling Completed
									1	2	3	1	2	3	1	2	3			
6/14/06	1:55 <sup>PM</sup>	yes	(62-67)	50.61	2.6	8 + 12	20	Brown	19.2	18.1	17.9	5.91	5.80	5.80	377	392	405	clear	N/A	2:27 <sup>PM</sup>
—	—	—	—	—	—	—	—	—	18.1	—	—	5.79	—	—	402	—	—	—	—	—
6/14/06	2:51 <sup>PM</sup>	yes	(57-62)	50.41	1.85	6 + 12	18	Brown	18.7	18.6	18.3	5.73	5.71	5.72	196	186.2	182.4	clear	N/A	3:16 <sup>PM</sup>
6/14/06	3:43 <sup>PM</sup>	yes	(52-57)	50.42	1.05	3 + 12	15	Brown	19.1	18.6	18.4	5.82	5.82	5.80	256	343	384	clear	N/A	4:27 <sup>PM</sup>
—	—	—	—	—	—	—	—	—	18.4	18.3	18.2	5.79	5.79	5.79	432	459	481	—	—	—
—	—	—	—	—	—	—	—	—	18.3	18.1	—	5.78	5.78	—	515	520	—	—	—	—
6/15/06	10:35 <sup>AM</sup>	Bailer	(47-52)	50.60	.22	.67	1	Brown	18.2	17.2	16.8	6.05	6.02	6.08	659	655	658	Brown	N/A	10:42

ft bls feet below land surface.

Notes: 35 gal potable water added to borehole

(62-67):  
 Turbidity at 1v = 450  
 2v = 100  
 3v = 60 NTU  
 4v = 55 NTU  
 Purge rate 1gpm  
 Rate lowered to sample

(57-62):  
 Purge rate 1gpm  
 Turbidity at 1v = 730  
 2v = 260  
 3v = 110 NTU  
 Rate lowered to sample

(52-57):  
 Additional sample point 47-52'  
 prior to start of purge.  
 Purge volume (3WV + 12) not reduced. Purge rate 1gpm  
 Turbidity at 1v = over-range

2v = —  
 3v = 650  
 4v = 170  
 5v = 210  
 6v = 110, 7v = 80, 8v = 70 NTU  
 Rate lowered to sample

(47-52):  
 Turbidity over-range  
 at 1v, 2v, 3v



Low-Flow Groundwater Sampling Log

Project Number: NY001348.0806 Task: 00002 Well ID: CAMW-1  
 Date: 4/14/06 Sampled By: GW/JAC  
 Sampling Time: 11:00 Recorded By: Scherlin  
 Weather: clear 60s Coded Replicate No.: N/A

Instrument Identification

Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information

Casing Material: PVC Purge Method: Rediflow Pump/Low Flow  
 Casing Diameter: 4" Screen Interval (ft bmp): Top 42.95 Bottom 62.95  
 Sounded Depth (ft bmp): 62.95 Pump Intake Depth (ft bmp): 62.95  
 Depth to Water (ft bmp): 53.35 Purge time Start: 10:10 Finish: 11:00

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
10:10	/	/	/	16.3	6.40	272	150	5.64	50	53.35	
10:15				16.2	6.48	271	147	5.38	45		
10:20				16.2	6.54	182.9	136	5.93	45	53.75	
10:25				15.8	6.54	165.1	130	5.76	45		
10:30				15.6	6.54	162.4	124	5.07	38	53.75	
10:35				15.7	6.56	162.4	120	5.14	34		
10:40				15.9	6.56	159.9	119	5.40	30		
10:50				19.2	6.52	135.8	125	5.97	23	53.75	
10:55				18.9	6.56	135.9	124	6.16	23		
						52- 0.008					

Sample Condition Color: cal w/ test Odor: no odor Appearance: none

Sample Collection Parameter: See COC Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading: At wellhead 0.00  
 Comments: No onsite activities. Dust monitoring not necessary.

Low-Flow Groundwater Sampling Log

Project Number: NY001348.0806 Task: 60002 Well ID: CAMW-2  
 Date: 4/12/06 Sampled By: GW/PP  
 Sampling Time: 12:16 pm Recorded By: PP  
 Weather: clear 6/0 Coded Replicate No.: N/A

Instrument Identification

Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information

Casing Material: PVC Purge Method: Rediflow Pump  
 Casing Diameter: 44 Screen Interval (ft bmp): Top 43 Bottom 63  
 Sounded Depth (ft bmp): 63 Pump Intake Depth (ft bmp): \_\_\_\_\_  
 Depth to Water (ft bmp): 51.78 Purge time Start: 11:30 AM Finish: 12:15 pm

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
11:30	—	—	—	16.7	6.75	867	128	4.40	150	—	—
11:35	—	—	—	16.6	6.59	832	136	3.99	250	51.84	—
11:40	—	—	—	16.9	6.57	790	136	3.73	200	—	—
11:45	—	—	—	17.4	6.52	767	133	3.49	150	51.84	—
11:50	—	—	—	17.9	6.51	742	130	3.37	120	—	—
11:55	—	—	—	18.3	6.50	738	128	3.33	110	51.84	—
12:00	—	—	—	18.6	6.49	722	127	3.23	95	—	—
12:05	—	—	—	18.9	6.48	710	125	3.16	80	51.84	—
12:10	—	—	—	19.1	6.48	702	124	3.11	60	—	—
12:15	—	—	—	19.3	6.47	696	123	3.12	55	51.84	—
									31		AT MOTTAS SAMPLE
											SC = 0.043

Sample Condition Color: \_\_\_\_\_ Odor: \_\_\_\_\_ Appearance: \_\_\_\_\_  
 Sample Collection Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_  
 Parameter: See COC

PID Reading At wellhead zero

Comments Dust monitor = 0 mg/m<sup>3</sup> upwind & downwind  
Different Rediflow pump used for PP

Low-Flow Groundwater Sampling Log

Project Number: NY001348,0806 Task: 00002 Well ID: CAMW-3  
 Date: 4/12/06 Sampled By: GW/PP  
 Sampling Time: 10:46 AM Recorded By: PP  
 Weather: clear 50% Coded Replicate No.: N/A

Instrument Identification

Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information

Casing Material: PVC Purge Method: Rediflow Pump / Low Flow  
 Casing Diameter: 4" Screen Interval (ft bmp): Top 41.60 Bottom 61.60  
 Sounded Depth (ft bmp): 61.60 Pump Intake Depth (ft bmp): \_\_\_\_\_  
 Depth to Water (ft bmp): 50.74 Purge time Start: 9:40 AM Finish: 10:45

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
9:40	-	-	-	14.8	6.91	1015	241	5.08	750	-	-
9:45	-	-	-	16.4	6.97	1047	225	4.30	7500	50.77	-
9:50	-	-	-	16.8	6.97	1050	216	4.17	1000	-	-
9:55	-	-	-	17.5	6.98	1047	208	4.10	600	50.77	-
10:00	-	-	-	18.1	6.98	1044	196	4.19	350	-	-
10:05	-	-	-	18.6	6.97	1035	177	3.82	220	50.77	-
10:10	-	-	-	18.6	6.97	1031	169	3.88	170	-	-
10:15	-	-	-	18.6	6.96	1021	160	3.98	160	50.77	-
10:20	-	-	-	18.5	6.96	1010	156	4.05	120	-	-
10:25	-	-	-	18.4	6.96	1007	151	3.94	100	50.76	-
10:30	-	-	-	18.3	6.96	998	146	3.87	95	-	-
10:35	-	-	-	18.3	6.96	991	139	3.92	80	50.77	-
10:40	-	-	-	18.4	6.96	989	132	3.82	70	-	-
10:45	-	-	-	18.4	6.97	984	125	3.81	45	50.76	-
							Σ =	0.042			

Sample Condition Color: \_\_\_\_\_ Odor: \_\_\_\_\_ Appearance: \_\_\_\_\_  
 Sample Collection Parameter: See LOC Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading At wellhead zero  
 Comments Clean pump used









**Water Sampling Log**

Project N-Grumman OUS Project No. NY00146406020003  
 Site Location Bethpage, NY Date 7-11-07  
 Well No. B 30 MW-1 Replicate No. NA Weather cloudy 83°F  
 Sampling Personnel Williams Przeworski Sampling Time: Begin 1714 End 1725

Purge Data	Field Parameters					
	1	1V	2V	3V	4V	5V
Measuring Point (describe) <u>TOC</u>	Color	<u>tan</u>	<u>tan</u>	<u>tan</u>	<u>light tan</u>	<u>colorless</u>
Sounded Well Depth (ft bmp) <u>72</u>	Odor	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Depth to Water (ft bmp) <u>53.98</u>	Appearance	<u>turbid</u>	<u>turbid</u>	<u>turbid</u>	<u>cloudy</u>	<u>clear</u>
Depth to Packer (ft bmp) <u>—</u>						
Water Column in Well (ft) <u>18.02</u>	pH (s.u.)	<u>4.29</u>	<u>4.65</u>	<u>4.72</u>	<u>4.73</u>	<u>4.88</u>
Casing Diameter <u>2" (0.16)</u>	Conductivity	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Gallons in Well <u>2.88</u>	(mS/cm) or					
Gallons Purged <u>x3</u>	(µmhos/cm) <sup>1)</sup>	<u>576</u>	<u>564</u>	<u>563</u>	<u>560</u>	<u>547</u>
Prior to Sampling <u>9</u>	Temperature (°C)	<u>20.1</u>	<u>20.0</u>	<u>19.8</u>	<u>19.7</u>	<u>19.5</u>
Pump Intake <u>—</u>	DO (mg/L)	<u>7.72</u>	<u>7.42</u>	<u>7.40</u>	<u>—</u>	<u>7.36</u>
Setting (ft bmp) <u>—</u>	ORP (mV)	<u>312</u>	<u>302</u>	<u>300</u>	<u>301</u>	<u>301</u>
Packer Pressure (psi) <u>—</u>	Turbidity (NTU)	<u>7500</u>	<u>588</u>	<u>210</u>	<u>118</u>	<u>51.3</u>
Pumping Rate (gpm) <u>1</u>	Time	<u>1654</u>	<u>1657</u>	<u>1700</u>	<u>1703</u>	<u>1709</u>
Evacuation Method <u>2" RediFlow pump</u>	DTW (ft bmp)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Sampling Method <u>3 well volume</u>						
Purge Time Begin <u>1654</u> End <u>1709</u>						

Q=1 T=9 IV=3

Remarks: Well sounded at 71:30'  
Pump set 5' into water table  
Pump raised prior to sampling

Parameter	Container	No.	Preservative
<u>See COC</u>			

PID Reading High Humidity

Well Casing Volumes			
Gal./Ft.	1 <sup>1/4</sup> " = 0.06	<u>2" = 0.16</u>	3" = 0.37
	1 <sup>1/2</sup> " = 0.09	2- <sup>1</sup> / <sub>2</sub> " = 0.26	3- <sup>1</sup> / <sub>2</sub> " = 0.50
			6" = 1.47



# ARCADIS Water Sampling Log

Project N4DD01464.0207 <sup>65003</sup> Project No. \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_  
 Site Location BETHPAGE Date 4-20-07  
 Site/Well No. BCP MW-6-1 Replicate No. \_\_\_\_\_  
 Weather \_\_\_\_\_ Sampling Time: Begin 10:00 <sup>9:30</sup> End \_\_\_\_\_

## Evacuation Data

Measuring Point \_\_\_\_\_  
 Sounded Well Depth (ft bmp) 110.00  
 Depth to Water (ft bmp) 53.44  
 Depth to Packer (ft bmp) \_\_\_\_\_  
 Water Column in Well (ft) 56.56  
 Casing Diameter 4" (0.65)  
 Gallons in Well 36-  
 Gallons Pumped/Bailed  
 Prior to Sampling 144  
 Sample Pump Intake  
 Setting (ft bmp) \_\_\_\_\_  
 Packer Pressure (psi) \_\_\_\_\_  
 Pumping Rate (gpm) Q=3 T=48 U=16  
 Evacuation Method \_\_\_\_\_  
 Sampling Method \_\_\_\_\_  
 Purge Time Begin 10:00 End \_\_\_\_\_

## Field Parameters

Color COLORLESS  
 Odor NONE  
 Appearance CLEAR

	1	1V	2V	3V
pH (s.u.)	<u>6.23</u>	<u>6.06</u>	<u>6.10</u>	<u>6.10</u>
Conductivity <del>(µmhos/cm)</del> (µmhos/cm)	<u>563</u>	<u>497</u>	<u>494</u>	<u>586</u>
Temperature (°C)	<u>15.4</u>	<u>16.5</u>	<u>16.7</u>	<u>16.5</u>
DO (mg/L)				
Turbidity (NTU)				
Time				
DTW (ft bmp)				

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Constituents Sampled: See COC

Sampling Personnel: G.W.C.E.

### Well Casing Volumes

Gal./Ft. 1<sup>1/4</sup>" = 0.06      2" = 0.16      3" = 0.37      4" = 0.65  
 1<sup>1/2</sup>" = 0.09      2-<sup>1/2</sup>" = 0.26      3-<sup>1/2</sup>" = 0.50      6" = 1.47

bmp below measuring point      mS/cm Milisiemens per centimeter      VOC Volatile Organic Compounds  
 °C Degrees Celsius      s.u. Standard units      µmhos/cm Micromhos per centimeter  
 ft feet      NTU Nephelometric Turbidity Units  
 gpm Gallons per minute      N/A Not Applicable  
 mg/L Milligrams per liter      COC Chain of Custody

### Water Sampling Log

Project N- Grumman 003 Project No. NY001464.0807.00003  
 Site Location Bethpage, NY Date 7/11/07  
 Well No. BCP MLW 6-1 Replicate No. MS/MSD Weather cloudy 82°F  
 Sampling Personnel William Prerzorki Sampling Time: Begin 10:55 AM End 11:25 AM

Purge Data	Field Parameters
Measuring Point (describe) <u>TOC</u>	Color <u>colorless</u> <u>colorless</u> <u>colorless</u> <u>colorless</u>
Sounded Well Depth (ft bmp) <u>110</u>	Odor <u>None</u> <u>None</u> <u>None</u> <u>None</u>
Depth to Water (ft bmp) <u>52.93</u>	Appearance <u>clear</u> <u>clear</u> <u>clear</u> <u>clear</u>
Depth to Packer (ft bmp) <u>/</u>	
Water Column in Well (ft) <u>57.07</u>	
Casing Diameter <u>4" (0.65)</u>	pH (s.u.) <u>6.89</u> <u>5.97</u> <u>5.93</u> <u>5.89</u>
Gallons in Well <u>37.1</u>	Conductivity
Gallons Purged <u>x3</u>	(mS/cm) or
Prior to Sampling <u>112</u>	(umhos/cm) <u>441</u> <u>394</u> <u>374</u> <u>365</u>
Pump Intake	Temperature (°C) <u>19</u> <u>18.9</u> <u>18.8</u> <u>19.0</u>
Setting (ft bmp) <u>/</u>	DO (mg/L) <u>5.81</u> <u>5.12</u> <u>5.48</u> <u>5.26</u>
Packer Pressure (psi) <u>/</u>	ORP (mV) <u>207</u> <u>194</u> <u>200</u> <u>208</u>
Pumping Rate (gpm) <u>2</u>	Turbidity (NTU) <u>37.1</u> <u>10.17</u> <u>4.09</u> <u>3.85</u>
Evacuation Method <u>2" Redi-flow pump</u>	Time <u>9:50 AM</u> <u>10:09</u> <u>10:28</u> <u>10:47</u>
Sampling Method <u>3 well volume</u>	DTW (ft bmp) <u>/</u> <u>/</u> <u>/</u> <u>/</u>
Purge Time Begin <u>9:50 AM</u> End <u>10:47 AM</u>	

Remarks: Pump set 10' above screen  
Pump lowered prior to sampling  
Q=2 + =56 1V=19

Parameter	Container	No.	Preservative
<u>see TOC</u>			

PID Reading 0.00

Well Casing Volumes

Gal./Ft.	1 <sup>1/4"</sup> = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

### Water Sampling Log

Project N - Grumman OUS Project No. NY061464080700003  
 Site Location Bethpage, NY Date 7/19/07  
 Well No. B-24 MW2 Replicate No. NA Weather overcast 80°F

Sampling Personnel Prezorski, Williams Sampling Time: Begin 1515 End           

Purge Data	Field Parameters			
	1	1V	2V	3V
Measuring Point (describe) <u>TOC</u>	Color <u>Brown</u>	<u>Brown</u>	<u>Brown</u>	<u>Brown</u>
Sounded Well Depth (ft bmp) <u>73.41</u>	Odor <u>none</u>	<u>None</u>	<u>None</u>	<u>none</u>
Depth to Water (ft bmp) <u>57.54</u>	Appearance <u>Turbid</u>	<u>Turbid</u>	<u>turbid</u>	<u>turbid</u>
Depth to Packer (ft bmp) <u>          </u>				
Water Column in Well (ft) <u>15.87</u>	pH (s.u.) <u>6.50</u>	<u>4.15</u>	<u>3.98</u>	<u>3.98</u>
Casing Diameter <u>2" (0.16)</u>	Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup> <u>442</u>	<u>183.9</u>	<u>164.0</u>	<u>157.0</u>
Gallons in Well <u>2.54</u>				
Gallons Purged <u>x3</u>				
Prior to Sampling <u>8</u>	Temperature (°C) <u>18.1</u>	<u>17.6</u>	<u>17.3</u>	<u>17.2</u>
Pump Intake Setting (ft bmp) <u>          </u>	DO (mg/L) <u>1.56</u>	<u>1.91</u>	<u>1.50</u>	<u>          </u>
Packer Pressure (psi) <u>          </u>	ORP (mV) <u>239</u>	<u>300</u>	<u>361</u>	<u>369</u>
Pumping Rate (gpm) <u>          </u>	Turbidity (NTU) <u>750</u>	<u>750</u>	<u>750</u>	<u>750</u>
Evacuation Method <u>Barlen</u>	Time <u>1440</u>	<u>1450</u>	<u>1448</u>	<u>1513</u>
Sampling Method <u>3 well volume</u>	DTW (ft bmp) <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Purge Time Begin <u>1440</u> End <u>1513</u>				

Remarks: well developed on 7/12/07. several feet of material removed. Turbidity for purge all greater than 50 NTU

Parameter	Container	No.	Preservative
<u>See COC</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

PID Reading High Humidity

Well Casing Volumes

Gal./Ft. 1 <sup>1/4</sup> " = 0.06	<u>2" = 0.16</u>	3" = 0.37	4" = 0.65
1 <sup>1/2</sup> " = 0.09	2- <sup>1</sup> / <sub>2</sub> " = 0.26	3- <sup>1</sup> / <sub>2</sub> " = 0.50	6" = 1.47

1) Circle one unit type



**Water Sampling Log**

Project N-Grummond Project No. NY001464-08020003  
 Site Location Bethpage NY Date 7/11/07  
 Well No. B24MW-2 Replicate No. NA Weather cloudy 83°F  
 Sampling Personnel Williams, Prozorski Sampling Time: Begin            End           

Purge Data		Field Parameters			
Measuring Point (describe)	<u>TOC</u>	Color	<u>Brown</u>		
Sounded Well Depth (ft bmp)	<u>74</u>	Odor	<u>None</u>		
Depth to Water (ft bmp)	<u>52.41</u>	Appearance	<u>turbid</u>		
Depth to Packer (ft bmp)	<u>          </u>				
Water Column in Well (ft)	<u>21.59</u>				
Casing Diameter	<u>2" (0.16)</u>	pH (s.u.)	<u>4.40</u>		
Gallons in Well	<u>3.45</u>	Conductivity			
Gallons Purged		(mS/cm) or			
Prior to Sampling	<u>11</u>	(µmhos/cm) <sup>1)</sup>	<u>168.8</u>		
Pump Intake		Temperature (°C)	<u>20.4</u>		
Setting (ft bmp)	<u>          </u>	DO (mg/L)	<u>1.12</u>		
Packer Pressure (psi)	<u>          </u>	ORP (mV)	<u>290</u>		
Pumping Rate (gpm)	<u>1</u>	Turbidity (NTU)	<u>7500</u>		
Evacuation Method	<u>2" Reflow pump</u>	Time	<u>1547</u>		
Sampling Method	<u>3 well volume</u>	DTW (ft bmp)	<u>          </u>		
Purge Time	Begin <u>1545</u> End <u>1608</u>				

Remarks: Pump set at mid-screen to remove silty material  
Drawdown (62. - ) water stops. Let recover, not able  
to maintain flow at 1 gpm

Parameter	Container	No.	Preservative
<u>See coc</u>			

PID Reading High Humidity

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47





# ARCADIS Water Sampling Log

Project N-Grumman 053 Project No. NY001346-0806-00002 Page 1 of 1  
 Site Location Bathpage, NY Date 10/5/06  
 Site/Well No. BCP-MW-3 Replicate No. N/A  
 Weather / Sampling Time: Begin 11:46 End 11:48 AM

### Evacuation Data

Measuring Point TUC  
 Sounded Well Depth (ft bmp) 75  
 Depth to Water (ft bmp) 53.98  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 21.02  
 Casing Diameter 2" (1.6)  
 Gallons in Well 3.36  
 Gallons Pumped/Bailed 23  
 Prior to Sampling 10  
 Sample Pump Intake Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 1  
 Evacuation Method Redflow pump  
 Sampling Method 3 UV  
 Purge Time Begin 11:33 End 11:45

### Field Parameters

	1	1V	2V	3V
Color	colorless	colorless	colorless	colorless
Odor	None	None	None	None
Appearance	cloudy	clear	clear	clear
pH (s.u.)	5.78	5.83	5.80	5.80
Conductivity (mS/cm)	—	—	—	—
Conductivity (umhos/cm)	313	321	322	326
Temperature (°C)	15.0	14.6	14.2	14.1
DO (mg/L)	—	—	—	—
Turbidity (NTU)	—	—	—	12
Time	11:33	11:37	11:41	11:45
DTW (ft bmp)				

Remarks:

Q=1 T=10 1V=4

Constituents Sampled: See COC

Sampling Personnel: P. Prezarski / G Williams

### Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	umhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		



ARCADIS

Water Sampling Log

Project NGC 043 Project No. NY001348, 0006.2 Page 1 of 1  
 Site Location Bethpage NY Date 12/11/06  
 Site/Well No. RCP MW-3 Replicate No. N/A Code No. N/A  
 Weather P/C @ 50° Sampling Time: Begin / End /

Evacuation Data	Field Parameters	I	1V	2V	3V
Measuring Point <u>TOC</u>	Color	<u>Lt Brown</u>			
MP Elevation (ft) <u>/</u>	Odor	<u>trace</u>			
Land Surface Elevation (ft) <u>/</u>	Appearance	<u>turbid</u>			
Sounded Well Depth (ft bmp) <u>75</u>	pH (s.u.)	<u>6.32</u>	<u>6.38</u>	<u>6.30</u>	<u>6.26</u>
Depth to Water (ft bmp) <u>53.90</u>	Conductivity (mS/cm)	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Water-Level Elevation (ft) <u>24.1</u>	(umhos/cm)	<u>155.1</u>	<u>150.6</u>	<u>156.4</u>	<u>156.2</u>
Water Column in Well (ft) <u>21.1</u>	Turbidity (NTU)	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Casing Diameter/Type <u>2" (.16)</u>	Temperature (°C)	<u>13.9</u>	<u>15.4</u>	<u>15.6</u>	<u>15.4</u>
Gallons in Well <u>3.3</u>	Dissolved Oxygen (mg/L)	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Gallons Pumped/Bailed Prior to Sampling <u>≈ 10</u>	Salinity (%) <sup>Time</sup>	<u>1621</u>	<u>1624</u>	<u>1627</u>	<u>1630</u>
Sample Pump Intake Setting (ft bmp) <u>55"</u>	Sampling Method	<u>RedyFlo</u>			
Purge Time begin <u>1621</u> end <u>1631</u>	Remarks	<u>0-OP10</u>			
Pumping Rate (gpm) <u>19 gpm</u>					
Evacuation Method					

Constituents Sampled	Container Description	Number	Preservative
<u>See TOC</u>			
<u>21.</u>			
<u>.16</u>			
<u>120</u>			
<u>210</u>			
<u>3.30</u>			

Sampling Personnel G. Williams / D. Zuck

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

**Water Sampling Log**

Project NGC-BCP Project No. M001348.0806.00002  
 Site Location BCPMW-3 Date 11/15/07  
 Well No. BCPMW-3 Replicate No. N/A Weather cloudy-Rain/40°F  
 Sampling Personnel Cheth / Przeworski Sampling Time: Begin 14:20 End 14:30

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 74  
 Depth to Water (ft bmp) 52.51  
 Depth to Packer (ft bmp) —  
 Water Column in Well (ft) 21.49  
 Casing Diameter 2" ID  
 Gallons in Well (21.5 x 0.16) = 3.446  
 Gallons Purged (3.44 x 3) = 10.326  
 Prior to Sampling 11G  
 Pump Intake ~1' above screen  
 Setting (ft bmp) —  
 Packer Pressure (psi) —  
 Pumping Rate (gpm) 1  
 Evacuation Method ~~perforated~~  
 Sampling Method perforated pump  
 Purge Time Begin 14:20 End 14:30  
1409

**Field Parameters**

	1	1V	2V	3V
Color	colorless	colorless	colorless	colorless
Odor	odorless	odorless	odorless	odorless
Appearance	cloudy	cloudy	cloudy	cloudy
pH (s.u.)	5.65	5.60	5.59	5.56
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	159.9	232	242	248
Temperature (°C)	12.3	13.0	13.3	13.2
DO (mg/L)	1.67	3.82	3.80	4.35
ORP (mV)	152	143	139	137
Turbidity (NTU)	200	85	65	60
Time	14:08	14:12	14:16	14:20
DTW (ft bmp)	52.51	52.63	52.63	52.63

Remarks: NO PID due to rain

Parameter	Container	No.	Preservative
<u>see COC</u>	_____	_____	_____
_____	_____	_____	_____

PID Reading N/A

Well Casing Volumes

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

ARCADIS

### Low-Flow Groundwater Sampling Log

Project Number: NY001464-0807 Task: 0010W Well ID: BCP MW-3  
 Date: 2/14/07 Sampled By: D. Zwick  
 Sampling Time: 5:50 Recorded By: D. Zwick  
 Weather: Overcast → P/c 25° Coded Replicate No.: N/A

Instrument Identification  
 Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information  
 Casing Material: \_\_\_\_\_ Purge Method: Rediflo/LowFlow  
 Casing Diameter: 2" Screen Interval (ft bmp): Top \_\_\_\_\_ Bottom \_\_\_\_\_  
 Sounded Depth (ft bmp): 74 Pump Intake Depth (ft bmp): \_\_\_\_\_  
 Depth to Water (ft bmp): 54.7 Purge time Start: 5:45 Finish: 5:50

#### Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
5:45	0	500	0	12.1	5.41	504	151	4.16	—	—	
5:50	5	22	500	11.9	5.41	507	153	4.14	156	—	

Sample Condition Color: Lt Brown Odor: None Appearance: turbid  
 Sample Collection Parameter: VOC 2000 ASP + Fra 1/2 Container: 2x 40mL Vials No.: 2 Preservative: HCl  
 ↓  
22

PID Reading \_\_\_\_\_  
 Comments \_\_\_\_\_



# ARCADIS Water Sampling Log

Project NY001469.0807.164 Project No. NGC-043 Page 1 of 2  
 Site Location Bothpage NY Date 2/14/07  
 Site/Well No. BCPmw-3 Replicate No. N/A  
 Weather P/C 25° Sampling Time: Begin 5:50 End 5:55

### Evacuation Data

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 74.00  
 Depth to Water (ft bmp) 54.70  
 Depth to Packer (ft bmp) \_\_\_\_\_  
 Water Column in Well (ft) 19.3  
 Casing Diameter 2" (.16)  
 Gallons in Well 3.08  
 Gallons Pumped/Bailed  
 Prior to Sampling 9.3  
 Sample Pump Intake  
 Setting (ft bmp) 64'  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 1  
 Evacuation Method Radi Flow  
 Sampling Method 3V + LF  
 Purge Time Begin 5:32 End 5:50

### Field Parameters

Color lt Brown  
 Odor None  
 Appearance slt. turb.

	1	1V	2V	3V
pH (s.u.)	<u>3.16</u>	<u>5.51</u>	<u>5.49</u>	<u>5.56</u>
Conductivity (mS/cm)	—	—	—	—
(umhos/cm)	<u>5.82</u>	<u>440</u>	<u>459</u>	<u>463</u>
Temperature (°C)	<u>7.7</u>	<u>12.7</u>	<u>13.6</u>	<u>13.7</u>
DO (mg/L)	<u>4.37</u>	<u>3.52</u>	<u>3.55</u>	<u>3.57</u>
Turbidity (NTU)	<u>7500</u>	<u>373</u>	<u>309</u>	—
Time	<u>5:32</u>	<u>5:35</u>	<u>5:38</u>	<u>5:41</u>
DTW (ft bmp)	<u>54.70</u>	—	—	—

Remarks: \_\_\_\_\_

Constituents Sampled: See COC Sampling Personnel: D. E. / G. Williams

### Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point      mS/cm Milisiemens per centimeter      VOC Volatile Organic Compounds  
 °C Degrees Celsius                  s.u. Standard units                          umhos/cm Micromhos per centimeter  
 ft feet    NTU Nephelometric Turbidity Units  
 gpm Gallons per minute                  N/A Not Applicable  
 mg/L Miligrams per liter                  COC Chain of Custody

### Water Sampling Log

Project N-Grammer 003 Project No. NY001464.0907.0003  
 Site Location Bethpage, NY Date 4/19/07  
 Well No. BCP MW-3 Replicate No. NA Weather Overcast 50%  
 Sampling Personnel Williams Prezorski Sampling Time: Begin NA End NA

Purge Data		Field Parameters				
Measuring Point (describe)	<u>TOC</u>	Color	<u>Brown</u>	<u>light tan</u>	<u>light tan</u>	<u>light tan</u>
Sounded Well Depth (ft bmp)	<u>75</u>	Odor	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Depth to Water (ft bmp)	<u>51.92</u>	Appearance	<u>turbid</u>	<u>turbid</u>	<u>cloudy</u>	<u>cloudy</u>
Depth to Packer (ft bmp)	<u>—</u>					
Water Column in Well (ft)	<u>23.09</u>					
Casing Diameter	<u>2" (0.16)</u>	pH (s.u.)	<u>5.89</u>	<u>5.72</u>	<u>5.72</u>	<u>5.75</u>
Gallons in Well	<u>3.7</u>	Conductivity	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Gallons Purged	<u>X3</u>	(mS/cm) or	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Prior to Sampling	<u>11</u>	(µmhos/cm) <sup>1)</sup>	<u>156.4</u>	<u>434</u>	<u>470</u>	<u>471</u>
Pump Intake	<u>—</u>	Temperature (°C)	<u>14.4</u>	<u>15.2</u>	<u>15.9</u>	<u>15.9</u>
Setting (ft bmp)	<u>—</u>	DO (mg/L)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Packer Pressure (psi)	<u>—</u>	ORP (mV)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Pumping Rate (gpm)	<u>1</u>	Turbidity (NTU)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Evacuation Method	<u>Rediflow Pump</u>	Purge Time	Begin <u>10:03 AM</u>	End <u>10:15 AM</u>	Time <u>10:03 AM</u>	<u>10:11</u>
Sampling Method	<u>3 Well Volume</u>	DTW (ft bmp)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Remarks: Q = 1 T = 11 V = 4

Parameter	Container	No.	Preservative
<u>see COC</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

PID Reading 0 ppm

Well Casing Volumes					
Gal./Ft.	1 <sup>1/4"</sup> = 0.06	<u>2" = 0.16</u>	3" = 0.37	4" = 0.65	
	1 <sup>1/2"</sup> = 0.09	2- <sup>1/2"</sup> = 0.26	3- <sup>1/2"</sup> = 0.50	6" = 1.47	

1) Circle one unit type



### Low-Flow Groundwater Sampling Log

Project N-Grummer OUS  
 Project Number NY00464080700007 Site Location Bethpage, NY Well ID BCP ML-3  
 Date 4/19/07 Sampled By Williams  
 Sampling Time 10:37 AM Recorded By Przozdzki  
 Weather Overcast 50% Coded Replicate No. N/A

Instrument Identification  
 Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method Low Flow / Red Flow Pump  
 Casing Diameter 2" Screen Interval (ft bmp) Top 59 Bottom 74  
 Sounded Depth (ft bmp) 75 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 51.92 Purge Time Start 10:16 AM Finish 10:35 AM

#### Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
<u>10:16 AM</u>		<u>350</u>		<u>15.2</u>	<u>5.74</u>	<u>495</u>	<u>-342</u>	<u>3.79</u>		
<u>10:20</u>		<u>↓</u>		<u>15.2</u>	<u>5.75</u>	<u>497</u>	<u>-133</u>	<u>3.39</u>		
<u>10:25</u>		<u>400</u>		<u>14.7</u>	<u>5.73</u>	<u>493</u>	<u>-150</u>	<u>3.72</u>		
<u>10:30</u>		<u>400</u>		<u>14.3</u>	<u>5.73</u>	<u>489</u>	<u>-131</u>	<u>3.92</u>	<u>1.00</u>	
<u>10:35 AM</u>				<u>16.4</u>	<u>5.71</u>	<u>486</u>	<u>-129</u>	<u>3.91</u>	<u>1.10</u>	

Collected Sample Condition \_\_\_\_\_ Color \_\_\_\_\_ Odor None Appearance cloudy  
 Parameter See COC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_  
 PID Reading 6ppm  
 Comments \_\_\_\_\_

1) Circle one unit type

### Water Sampling Log

Project N-Grummas 003 Project No. NY 801464.0807.00003  
 Site Location Bethpage, NY Date 5/23/87  
 Well No. BCP MW-3 Replicate No. N/A Weather clear 75°F  
 Sampling Personnel Prezorski <sup>Williams</sup> Sampling Time: Begin NA End NA

**Purge Data**

**Field Parameters**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 74  
 Depth to Water (ft bmp) 51.30  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 22.7  
 Casing Diameter 2" (0.16)  
 Gallons in Well 3.6  
 Gallons Purged 23  
 Prior to Sampling 11  
 Pump Intake /  
 Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 2  
 Evacuation Method 2" Reflow pump  
 Sampling Method 3 well volume  
 Purge Time Begin 15:17 End 15:29

	1	1V	2V	3V
Color	Brown	colorless	colorless	colorless
Odor	None	None	None	None
Appearance	turbid	cloudy	cloudy	cloudy
pH (s.u.)	5.47	5.27	5.27	5.25
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	—	—	—	—
	371	396	399	404
Temperature (°C)	17.1	16.3	16.3	16.3
DO (mg/L)	—	—	—	—
ORP (mV)	—	—	—	—
Turbidity (NTU)	650	130	170	160
Time	15:17	15:21	15:25	15:29
DTW (ft bmp)	—	—	—	—

Remarks: Q=1 t=11 1V=4  
Pump set above screen

Parameter	Container	No.	Preservative
<u>See col</u>			

PID Reading Open & wellhead

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	<u>2" = 0.16</u>	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2- <sup>1</sup> / <sub>2</sub> " = 0.26	3- <sup>1</sup> / <sub>2</sub> " = 0.50	6" = 1.47

1) Circle one unit type



### Low-Flow Groundwater Sampling Log

Project N-Gramma 003  
 Project Number NY 001464.0807.00003 Site Location Bethpage, NY Well ID BCPMW-3  
 Date 5/23/07 Sampled By Prezosti/William  
 Sampling Time 1557 Recorded By Prezosti  
 Weather clear 75°F Coded Replicate No. N/A

Instrument Identification  
 Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method 2" Redflow Pump / Low Flow  
 Casing Diameter 2" Screen Interval (ft bmp) Top 59 Bottom 74  
 Sounded Depth (ft bmp) 74 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 51.30 Purge Time Start 1530 Finish 1555

#### Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) <sup>25</sup>	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1530		500		17.6	5.39	360	182	4.79	100	—
1535		500		19.2	5.49	350	174	4.51	210	51.31
1540		500		18.6	5.47	404	150	3.72	1100	—
1545		500		18.9	5.43	405	159	3.42	400	51.31
1550		500		19.4	5.38	401	167	3.79	170	—
1555		500		19.6	5.38	398	170	3.75	120	51.31
/										

Collected Sample Condition  
 Color yellow Odor none Appearance cloudy  
 Parameter See COC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_

PID Reading 0 ppm

Comments  
Pump set at mid screen  
At 1535 Pump moved to near top of screen

1) Circle one unit type

**Water Sampling Log**

Project N-Gamma 003 Project No. NY 001864, 0807, 00003  
 Site Location Bethpage NY Date 7/12/07  
 Well No. BCPMW-3 Replicate No. NA Weather clear 90°F  
 Sampling Personnel Willians Perowski Sampling Time: Begin 10:05 AM End 10:11 AM

Purge Data	Field Parameters			
	1	1V	2V	3V
Measuring Point (describe) <u>TOC</u>	Color <u>light tan</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>
Sounded Well Depth (ft bmp) <u>74</u>	Odor <u>slight</u>	<u>slight</u>	<u>slight</u>	<u>slight</u>
Depth to Water (ft bmp) <u>51.61</u>	Appearance <u>turbid</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Depth to Packer (ft bmp) <u>—</u>				
Water Column in Well (ft) <u>22.39</u>	pH (s.u.) <u>6.67</u>	<u>5.79</u>	<u>5.75</u>	<u>5.76</u>
Casing Diameter <u>2" (0.16)</u>	Conductivity (mS/cm) or (umhos/cm) <sup>1)</sup> <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Gallons in Well <u>3.6</u>	Temperature (°C) <u>18.3</u>	<u>17.7</u>	<u>17.8</u>	<u>17.8</u>
Gallons Purged Prior to Sampling <u>11</u>	DO (mg/L) <u>1.74</u>	<u>2.55</u>	<u>3.34</u>	<u>3.04</u>
Pump Intake Setting (ft bmp) <u>—</u>	ORP (mV) <u>62</u>	<u>70</u>	<u>75</u>	<u>25.6 76</u>
Packer Pressure (psi) <u>—</u>	Turbidity (NTU) <u>130</u>	<u>33.7</u>	<u>34.3</u>	<u>25.6</u>
Pumping Rate (gpm) <u>Approx. 5</u>	Time <u>9:37</u>	<u>9:45</u>	<u>9:53</u>	<u>10:01</u>
Evacuation Method <u>2" Redflow pump</u>	DTW (ft bmp) <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Sampling Method <u>3 well volume</u>				
Purge Time Begin <u>9:37 AM</u> End <u>10:01 AM</u>				

$Q=5 \pm 22$   $10=8$

Remarks: Pump set 2 into water table  
Well sounded at 74.61'  
ORP at 3V is 76 mV

Parameter	Container	No.	Preservative
<u>see LOC</u>			

PID Reading High humidity

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

### Water Sampling Log

Project N- Grammar 003 Project No. NY001464.0807.00003  
 Site Location Bethpage, NY Date 9-18-07  
 Well No. BCP MW-3 Replicate No. NA Weather clear, 65°F

Sampling Personnel Williams & Pizzoski Sampling Time: Begin            End           

Purge Data	Field Parameters	1			
		1	1V	2V	3V
Measuring Point (describe) <u>TOC</u>	Color <u>tan</u>	1	1V	2V	3V
Sounded Well Depth (ft bmp) <u>74</u>	Odor <u>slight</u>	1	1V	2V	3V
Depth to Water (ft bmp) <u>51.38</u>	Appearance <u>turbid</u>	1	1V	2V	3V
Depth to Packer (ft bmp) <u>          </u>		1	1V	2V	3V
Water Column in Well (ft) <u>22.62</u>	pH (s.u.) <u>5.39</u>	1	1V	2V	3V
Casing Diameter <u>2" (0.16)</u>	Conductivity (mS/cm) or <u>(umhos/cm)</u>	1	1V	2V	3V
Gallons in Well <u>3.62</u>		1	1V	2V	3V
Gallons Purged <u>x3</u>	Temperature (°C) <u>15.8</u>	1	1V	2V	3V
Prior to Sampling <u>11</u>	DO (mg/L) <u>3.73</u>	1	1V	2V	3V
Pump Intake <u>*</u>	ORP (mV) <u>194</u>	1	1V	2V	3V
Setting (ft bmp) <u>          </u>	Turbidity (NTU) <u>417</u>	1	1V	2V	3V
Packer Pressure (psi) <u>          </u>	Time <u>1347</u>	1	1V	2V	3V
Pumping Rate (gpm) <u>1</u>	DTW (ft bmp) <u>          </u>	1	1V	2V	3V
Evacuation Method <u>2" rediflow pump</u>		1	1V	2V	3V
Sampling Method <u>3 well volume CP</u>		1	1V	2V	3V
Purge Time Begin <u>1347</u> End <u>1359</u>		1	1V	2V	3V

Remarks: \* Pump set above screen  
Pump lowered before low flow sample  
Q=1 T=11 1V=4

Parameter	Container	No.	Preservative
<u>See COC</u>			

PID Reading Not Working  
(Battery needs charging)

Well Casing Volumes				
Gal./Ft.	1 <sup>1/4"</sup> = 0.06	<u>2" = 0.16</u>	3" = 0.37	4" = 0.65
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type



### Low-Flow Groundwater Sampling Log

Project N - Grumman 003  
 Project Number NY001464.0807.00003 Site Location Bethpage, NY Well ID BCPMW-3  
 Date 9-18-07 Sampled By Williams & Przorcki  
 Sampling Time 1421 Recorded By Przorcki  
 Weather clear, 65°F Coded Replicate No. NA

Instrument Identification \_\_\_\_\_ Serial # \_\_\_\_\_  
 Water Quality Meter(s) \_\_\_\_\_  
 Casing Material PVC Purge Method Rediflow Pump / Low Flow  
 Casing Diameter 2" Screen Interval (ft bmp) Top 59 Bottom 74  
 Sounded Depth (ft bmp) 74 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 51.38 Purge Time Start 1405 Finish 1420

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) <sup>25</sup>	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1405		450		17.3	5.52	260	161	5.11	—	—
1410		450		17.7	5.74	366	129	3.59	—	—
1415		450		18.5	5.74	359	125	3.22	414	51.40
1420		450		19.3	5.73	353	124	3.06	250	—

Collected Sample Condition \_\_\_\_\_ Color light tan Odor slight Appearance turbid  
 Parameter See COC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PID Reading \_\_\_\_\_  
 Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**ARCADIS**  
**Water Sampling Log**

Project NGC-BCP Project No. M/091348.0806.0000 Page 1 of 1  
 Site Location Bethpage, NY Date 11/2/07  
 Site/Well No. B24MW-3 Replicate No. /  
 Weather / Sampling Time: Begin / End /

<b>Evacuation Data</b>		<b>Field Parameters</b>	
Measuring Point	<u>TOC</u>	Color	<u>Brown</u>
Sounded Well Depth (ft bmp)	<u>~70</u>	Odor	<u>None</u>
Depth to Water (ft bmp)	<u>54.59</u>	Appearance	<u>TURBID</u>
Depth to Packer (ft bmp)	<u>/</u>		
Water Column in Well (ft)	<u>15.41</u>		
Casing Diameter	<u>2" D</u>	pH (s.u.)	<u>5.46</u> <u>5.40</u> <u>5.48</u> <u>5.44</u>
Gallons in Well	<u>(15.41 x 116) = 2.5G</u>	Conductivity	
Gallons Pumped/Bailed		<del>(mS/cm)</del>	
Prior to Sampling	<u>(2.5G x 3) = 7.5G</u>	(µmhos/cm)	<u>522</u> <u>527</u> <u>534</u> <u>538</u>
Sample Pump Intake		Temperature (°C)	<u>14.2</u> <u>14.2</u> <u>14.4</u> <u>14.4</u>
Setting (ft bmp)	<u>/</u>		
Packer Pressure (psi)	<u>/</u>	DO (mg/L)	
Pumping Rate (gpm)	<u>/</u>	Turbidity (NTU)	
Evacuation Method	<u>/</u>	Time	<u>2:58</u> <u>3:00.5</u> <u>3:03</u> <u>3:06</u>
Sampling Method	<u>REDIFLO</u>	DTW (ft bmp)	
Purge Time	Begin <u>/</u> End <u>/</u>		

Remarks: Q=1 T=7.5 IU=2.5 ml

Constituents Sampled: See COC Sampling Personnel: GW/JAC

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

- bmp below measuring point    mS/cm Milisiemens per centimeter    VOC Volatile Organic Compounds
- °C Degrees Celsius    s.u. Standard units    µmhos/cm Micromhos per centimeter
- ft feet    NTU Nephelometric Turbidity Units
- gpm Gallons per minute    N/A Not Applicable
- mg/L Milligrams per liter    COC Chain of Custody

609-208-3157



### Water Sampling Log

Project N - Grumman 003 Project No. NY001464,0807,0003  
 Site Location Bethpage, NY Date 7/11/07  
 Well No. B24 MW-3 Replicate No. NA Weather cloudy 82°F  
 Sampling Personnel Williams Przyorski Sampling Time: Begin 12:54 End 13:00

Purge Data	Field Parameters					
	light tar	light tar	light tar	light tar	light tar	very light tar
Measuring Point (describe)	<u>TOC</u>					
Sounded Well Depth (ft bmp)	<u>70</u>					
Depth to Water (ft bmp)	<u>53.57</u>					
Depth to Packer (ft bmp)	<u>/</u>					
Water Column in Well (ft)	<u>16.43</u>					
Casing Diameter	<u>2" (0.16)</u>					
Gallons in Well	<u>2.63</u>					
Gallons Purged	<u>x3</u>					
Prior to Sampling	<u>8</u>					
Pump Intake	<u>/</u>					
Setting (ft bmp)	<u>/</u>					
Packer Pressure (psi)	<u>/</u>					
Pumping Rate (gpm)	<u>.5</u>					
Evacuation Method	<u>2" Rediflax Pump</u>					
Sampling Method	<u>3 Well Volume</u>					
Purge Time	Begin <u>12:20pm</u> End <u>12:53pm</u>					
Q = .5 t = 16 lv = 6						
Color	<u>light tar</u>	<u>light tar</u>	<u>light tar</u>	<u>light tar</u>	<u>light tar</u>	<u>very light tar</u>
Odor	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Appearance	<u>cloudy</u>	<u>cloudy</u>	<u>cloudy</u>	<u>cloudy</u>	<u>cloudy</u>	<u>clear</u>
pH (s.u.)	<u>5.92</u>	<u>5.53</u>	<u>5.34</u>	<u>5.26</u>	<u>5.34</u>	<u>5.31</u>
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Temperature (°C)	<u>19.6</u>	<u>21.0</u>	<u>19.2</u>	<u>18.7</u>	<u>19.6</u>	<u>19.2</u>
DO (mg/L)	<u>—</u>	<u>4.95</u>	<u>5.11</u>	<u>5.50</u>	<u>4.91</u>	<u>6.70</u>
ORP (mV)	<u>187</u>	<u>179</u>	<u>199</u>	<u>214</u>	<u>210</u>	<u>215</u>
Turbidity (NTU)	<u>309</u>	<u>337</u>	<u>232</u>	<u>713</u>	<u>139</u>	<u>43.6</u>
DTW (ft bmp)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Remarks: Pump set at 1.5' into water table. Drawdown & pump silt problems at 12:28pm →  
pump lowered approx 6' & rate increased to 1 gpm.  
\* Pump raised<sup>88</sup> at 4V. Well sounded at 69.50'  
    Raised

Parameter	Container	No.	Preservative
<u>Sec COC</u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>

PID Reading 0 ppm

Well Casing Volumes

Gal./Ft.	1 <sup>1/4"</sup> = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

**Water Sampling Log**

Project N-Grammer OUS Project No. NY0014640607.0003  
 Site Location Bethpage, NY Date 7/12/07  
 Well No. BIP ML-1 Replicate No. NA Weather clear 80°F  
 Sampling Personnel Williams Proctor Sampling Time: Begin            End           

Purge Data		Field Parameters				
Measuring Point (describe)	<u>ToC</u>	Color				
Sounded Well Depth (ft bmp)	<u>70</u>	Odor				
Depth to Water (ft bmp)	<u>51.65</u>	Appearance				
Depth to Packer (ft bmp)	<u>          </u>					
Water Column in Well (ft)	<u>18.35</u>		I	1V	2V	3V
Casing Diameter	<u>2" (0.16)</u>	pH (s.u.)				
Gallons in Well	<u>2.94</u>	Conductivity				
Gallons Purged	<u>x3</u>	(mS/cm) or				
Prior to Sampling	<u>9</u>	(umhos/cm) <sup>1)</sup>				
Pump Intake		Temperature (°C)				
Setting (ft bmp)	<u>          </u>	DO (mg/L)				
Packer Pressure (psi)	<u>          </u>	ORP (mV)				
Pumping Rate (gpm)	<u>          </u>	Turbidity (NTU)				
Evacuation Method	<u>2" RedFlow pump</u>	Time				
Sampling Method	<u>3 well volume</u>	DTW (ft bmp)				
Purge Time	Begin <u>12:32</u> End <u>          </u>					
	<u>m</u>					

Remarks: Well sounded at 65.10  
Pump set 2' into water table, flow stopped after 20 seconds  
Pump lowered 5', Again flow stopped after 20 seconds

Parameter	Container	No.	Preservative
<u>see coc</u>			

PID Reading High Humidity

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

### Water Sampling Log

Project N-Grammer 003 Project No. NY001464.0807.00003  
 Site Location Bethpage, NY Date 7/19/07  
 Well No. BCP MW-1 Replicate No. NA Weather overcast 80°F  
 Sampling Personnel Prezorski Sampling Time: Begin 1726 End 1740

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 64.38  
 Depth to Water (ft bmp) 51.11  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 13.27  
 Casing Diameter 2" (0.16)  
 Gallons in Well 2.12  
 Gallons Purged x3  
 Prior to Sampling 7  
 Pump Intake /  
 Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) /  
 Evacuation Method Bailer  
 Sampling Method 3 well volume  
 Purge Time Begin 5:04 End 1723  
(1704)

**Field Parameters**

	1	1V	2V	3V
Color	colorless	tan	brown	tan
Odor	None	None	None	None
Appearance	clear	turbid	turbid	turbid
pH (s.u.)	4.26	4.25	4.06	4.07
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	25.6	131.4	142.6	133.2
Temperature (°C)	17.4	16.5	15.2	15.6
DO (mg/L)	3.24	3.13	4.01	2.86
ORP (mV)	425	412	415	393
Turbidity (NTU)	62.1	739	750	953
Time	1704	1710	1717	1723
DTW (ft bmp)	-	-	-	-

Remarks:

Greater than 50 NTU

Parameter	Container	No.	Preservative
<u>See COC</u>			

PID Reading

High Humidity

**Well Casing Volumes**

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	<u>2" = 0.16</u>	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2- <sup>1/2</sup> " = 0.26	3- <sup>1/2</sup> " = 0.50	6" = 1.47

1) Circle one unit type

Low-Flow Groundwater Sampling Log

Project Number: NY001348.0806 Task: 00002 Well ID: BCP-MW-2  
 Date: 4/12/06 Sampled By: GW 1A  
 Sampling Time: 2:53 pm Recorded By: BP  
 Weather: clear 60% Coded Replicate No.: Rep041206

Instrument Identification

Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information

Casing Material: PVC Purge Method: Rediflow pump / Low Flow  
 Casing Diameter: 2" Screen Interval (ft bmp): Top 60 Bottom 75  
 Sounded Depth (ft bmp): 75 Pump Intake Depth (ft bmp): \_\_\_\_\_  
 Depth to Water (ft bmp): 54.52 Purge time Start: 2:15 pm Finish: 2:50 pm

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
2:15	-	-	-	15.8	5.77	605	155	2.91	750	-	-
2:20	-	-	-	15.8	6.23	612	158	2.34	500	54.51	-
2:25	-	-	-	16.1	6.24	615	165	2.35	200	-	-
2:30	-	-	-	17.1	6.24	622	169	2.26	55	54.51	-
2:35	-	-	-	17.6	6.24	622	170	2.24	31	-	-
2:40	-	-	-	17.8	6.22	622	171	2.31	23	54.51	-
2:45	-	-	-	17.8	6.22	621	171	2.30	15	-	-
2:50	-	-	-	17.8	6.22	619	171	2.30	14	54.51	-
							SL = 0.080				

Sample Condition Color: \_\_\_\_\_ Odor: \_\_\_\_\_ Appearance: \_\_\_\_\_  
 Sample Collection Parameter: See COC Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading At wellhead zero  
 Comments Dust monitor reading 0 mg/m<sup>3</sup> upwind & downwind  
clean well pump used

**Water Sampling Log**

Project BCP-NGC Project No. M001398.0806.00002  
 Site Location Bethpage, NY Date 1/15/07  
 Well No. BCP-MW-2 Replicate No. n/a Weather cloudy/rain -40°F  
 Sampling Personnel SAC/PP Sampling Time: Begin 1315 End 1317

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 75.5  
 Depth to Water (ft bmp) 53.88  
 Depth to Packer (ft bmp) —  
 Water Column in Well (ft) 21.62  
 Casing Diameter 2"Ø  
 Gallons in Well 3.56  
 Gallons Purged  
 Prior to Sampling 10.56  
 Pump Intake  
 Setting (ft bmp) 25' above screen  
 Packer Pressure (psi) —  
 Pumping Rate (gpm) 1  
 Evacuation Method —  
 Sampling Method Rediflo pump  
 Purge Time Begin 1300 End 1312

**Field Parameters**

	Light tan	Light tan	Light tan	colorless
Color	None	None	None	None
Odor	None	None	None	None
Appearance	turbid	turbid	turbid	cloudy
	1	1V	2V	3V
pH (s.u.)	5.58	5.59	5.61	5.62
Conductivity	—	—	—	—
(mS/cm) or (µmhos/cm) <sup>1)</sup>	494	425	413	407
Temperature (°C)	11.1	13.1	13.5	13.7
DO (mg/L)	3.24	2.33	2.26	2.52
ORP (mV)	185	196	202	205
Turbidity (NTU)	200	330	200	120
Time	1300	1304	1308	1312
DTW (ft bmp)			54.23	54.20

Remarks: \*NO PID because of Rain

Parameter	Container	No.	Preservative
<u>See Log</u>			

PID Reading N/A

Well Casing Volumes

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

### Water Sampling Log

Project N-Gruman OUS Project No. NY001464080700003  
 Site Location Bethpage, NY Date 7/12/07  
 Well No. BCPMW-2 Replicate No. NA Weather Clear Cool  
 Sampling Personnel Williams Perrostki Sampling Time: Begin 11:47 End 11:53 AM

Purge Data	Field Parameters					
	Light tan	Light tan	Light tan	Light tan	colorless	colorless
Measuring Point (describe) <u>TOC</u>	Color	slight	slight	slight	slight	slight
Sounded Well Depth (ft bmp) <u>75.5</u>	Odor	turbid	turbid	turbid	turbid	turbid
Depth to Water (ft bmp) <u>53.06</u>	Appearance	1	1V	2V	3V	4V 5V
Depth to Packer (ft bmp) <u>/</u>	pH (s.u.)	5.64	5.55	5.53	5.53	5.53 5.53
Water Column in Well (ft) <u>22.44</u>	Conductivity	/	/	/	/	/
Casing Diameter <u>2" (0.16)</u>	(mS/cm) or	398	392	389	385	383 380
Gallons in Well <u>3.59</u>	(µmhos/cm) <sup>1)</sup>	17.8	17.6	17.6	17.5	17.5 17.5
Gallons Purged <u>23</u>	Temperature (°C)	2.28	2.30	2.35	2.09	2.50 2.12
Prior to Sampling <u>11</u>	DO (mg/L)	153	183	203	220	231 242
Pump Intake <u>/</u>	ORP (mV)	7500	827	521	295	181 91.4
Setting (ft bmp) <u>/</u>	Turbidity (NTU)	10:39	10:47	10:55	11:03	11:11 11:29
Packer Pressure (psi) <u>/</u>	Time	/	/	/	/	/
Pumping Rate (gpm) <u>.5</u>	DTW (ft bmp)	/	/	/	/	/
Evacuation Method <u>2" Rediflow pump</u>						
Sampling Method <u>3 well volume</u>						
Purge Time Begin <u>10:39</u> End <u>11:45</u>						

$Q = 0.5 \quad t = 22 \quad V = 9 \quad M$

Remarks: Well sounded at 74.0'  
Pump set 19' off bottom of well  
Pump lowered 4-5' prior to sampling

Parameter	Container	No.	Preservative
<u>see coc</u>			

PID Reading High Humidity

Well Casing Volumes			
Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
			6" = 1.47





ARCADIS

Low-Flow Groundwater Sampling Log

Project Number: N7001348-0806 Task: 0.000 Well ID: BCPmw 4-1  
 Date: 1-12-08 Sampled By: GW JC  
 Sampling Time: \_\_\_\_\_ Recorded By: ew  
 Weather: \_\_\_\_\_ Coded Replicate No.: \_\_\_\_\_

Instrument Identification  
 Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information  
 Casing Material: PVC Purge Method: 3WV/LOWFLOW  
 Casing Diameter: 4 Screen Interval (ft bmp): Top 45 Bottom 65  
 Sounded Depth (ft bmp): \_\_\_\_\_ Pump Intake Depth (ft bmp): \_\_\_\_\_  
 Depth to Water (ft bmp): \_\_\_\_\_ Purge time Start: 1:10 Finish: 1:30

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
1:10				13.1	5.82	141	218	4.21			
1:15				13.1	5.92	141.2	224	4.61			
1:20				13.1	5.97	141.5	227	4.98			
1:25				13.1	5.94	141.8	230	5.32			
1:30				13.1	5.92	141.5	232	4.45			
									11		
						52 = .006 mS/L					

Sample Condition Color: Colorless Odor: None Appearance: Clear  
 Sample Collection Parameter: \_\_\_\_\_ Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PID Reading: \_\_\_\_\_  
 Comments: DROPPED PUMP 5' INTO SCREEN AFTER PURGING 3WV





**ARCADIS**  
**Water Sampling Log**

Project N-Grumman 003 Project No. NY001348.0806.00002 Page 1 of 1  
 Site Location Bethpage, NY Date 10/4/06  
 Site/Well No. MW-4-1 Replicate No. N/A  
 Weather / Sampling Time: Begin 5:21pm End 5:23pm

**Evacuation Data**

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 72  
 Depth to Water (ft bmp) 57.38  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 14.62  
 Casing Diameter 4" (0.65)  
 Gallons in Well 9.5  
 Gallons Pumped/Bailed <sup>x3</sup>  
 Prior to Sampling 29  
 Sample Pump Intake Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 1  
 Evacuation Method Rediflow pump  
 Sampling Method 3 well volume  
 Purge Time Begin 4:49 End 5:19pm

**Field Parameters**

	1	1V	2V	3V
Color	colorless	colorless	colorless	colorless
Odor	NONE	NONE	NONE	NONE
Appearance	clear	clear	clear	clear
pH (s.u.)	5.95	5.96	5.98	5.98
Conductivity (µmhos/cm)	166.9	182.3	187.6	190.7
Temperature (°C)	15.6	14.9	14.2	14.2
DO (mg/L)	-	-	-	-
Turbidity (NTU)	-	-	-	12
Time	4:49	4:58	5:09	5:19
DTW (ft bmp)	-	57.56	57.56	-

Remarks: Q=1 T=29 1V=10

Constituents Sampled: See COC Sampling Personnel: P. Prezards / G. Williams

**Well Casing Volumes**

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point      mS/cm      Millisiemens per centimeter      VOC      Volatile Organic Compounds  
 °C Degrees Celsius                      s.u.      Standard units                      umhos/cm      Micromhos per centimeter  
 ft feet                                      NTU      Nephelometric Turbidity Units  
 gpm Gallons per minute                      N/A      Not Applicable  
 mg/L Milligrams per liter                      COC      Chain of Custody

ARCADIS  
Water Sampling Log

Project 11GC Project No. NY001948.0806.00002 Page 1 of 1  
 Site Location Be-thpage, NY Date 11/9/06  
 Site/Well No. BCP-MW-4-2 Replicate No. REP-110906  
 Weather P/C 2.67° Sampling Time: Begin 12:17 End 12:20

Evacuation Data

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 20  
 Depth to Water (ft bmp) 57.06  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 12.94  
 Casing Diameter 4" (.65)  
 Gallons in Well 9.41  
 Gallons Pumped/Bailed  
 Prior to Sampling 25.23  
 Sample Pump Intake  
 Setting (ft bmp) 59'  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 1 gpm  
 Evacuation Method Redi flow  
 Sampling Method " "  
 Purge Time Begin 11:50 End 12:17

Field Parameters

	1	1V	2V	3V
Color	<u>None</u>	<u>" "</u>	<u>" "</u>	<u>" "</u>
Odor	<u>trace</u>	<u>None</u>	<u>" "</u>	<u>" "</u>
Appearance	<u>slight turb.</u>	<u>clear</u>	<u>" "</u>	<u>" "</u>
pH (s.u.)	<u>5.94</u>	<u>5.96</u>	<u>5.93</u>	<u>5.92</u>
Conductivity (µS/cm)	<u>188.2</u>	<u>192.0</u>	<u>364</u>	<u>369</u>
ORP (µmhos/cm)	<u>116</u>	<u>120</u>	<u>123</u>	<u>112</u>
Temperature (°C)	<u>13.6</u>	<u>13.8</u>	<u>13.8</u>	<u>13.9</u>
DO (mg/L)	<u>5.30</u>	<u>4.85</u>	<u>4.15</u>	<u>4.27</u>
Turbidity (NTU)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Time	<u>11:50</u>	<u>11:59</u>	<u>12:08</u>	<u>12:17</u>
DTW (ft bmp)	<u>57.06</u>	<u>—</u>	<u>—</u>	<u>57.08</u>

Remarks: Pump left @ 54' since it is in screen.

Constituents Sampled: See COC Sampling Personnel: D. Zuck

Well Casing Volumes				
Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point  
 °C Degrees Celsius  
 ft feet  
 gpm Gallons per minute  
 mg/L Milligrams per liter  
 mS/cm Milisiemens per centimeter  
 s.u. Standard units  
 NTU Nephelometric Turbidity Units  
 N/A Not Applicable  
 COC Chain of Custody  
 VOC Volatile Organic Compounds  
 umhos/cm Micromhos per centimeter

# ARCADIS Water Sampling Log

Project NGC 043 Project No. NY001348.0806.2 Page 1 of 1  
 Site Location Rafinesque NY Date 12/11/08  
 Site/Well No. BCP/4-1 Replicate No. REP 12-11-08  
 Weather P/C ~ 50° Sampling Time: Begin 1448 End 1450

Evacuation Data		Field Parameters				
Measuring Point	<u>TOC</u>	Color	<u>Slight tint of Brown</u>			
Sounded Well Depth (ft bmp)	<u>70.0</u>	Odor	<u>trace - None</u>			
Depth to Water (ft bmp)	<u>53.8'</u>	Appearance	<u>Slt. turb</u>			
Depth to Packer (ft bmp)	<u>#</u>					
Water Column in Well (ft)	<u>16.2</u>	pH (s.u.)	<u>6.37</u>	<u>6.24</u>	<u>6.29</u>	<u>6.34</u>
Casing Diameter	<u>4" (.65)</u>	Conductivity				
Gallons in Well	<u>10.53</u>	(mS/cm)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Gallons Pumped/Bailed		(µmhos/cm)	<u>87.5</u>	<u>92.2</u>	<u>112.0</u>	<u>113.5</u>
Prior to Sampling	<u>23 = (32)</u>	Temperature (°C)	<u>15.1</u>	<u>15.1</u>	<u>15.4</u>	<u>15.3</u>
Sample Pump Intake		DO (mg/L)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Setting (ft bmp)	<u>55'</u>	Turbidity (NTU)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Packer Pressure (psi)	<u>-</u>	Time	<u>14:18</u>	<u>14:28</u>	<u>14:38</u>	<u>14:48</u>
Pumping Rate (gpm)	<u>1 gpm</u>	DTW (ft bmp)	<u>53.8</u>	<u>-</u>	<u>-</u>	<u>-</u>
Evacuation Method	<u>Redi 60</u>					
Sampling Method	<u>C C</u>					
Purge Time	Begin <u>1448</u> End <u>1448</u>					

Remarks: 31  
16.2  
.65  
18 10  
9 20  
10.53

Constituents Sampled: See COC Sampling Personnel: D. Zarba / G. W. Wilcox

Well Casing Volumes					
Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47	

- bmp below measuring point
- °C Degrees Celsius
- ft feet
- gpm Gallons per minute
- mg/L Milligrams per liter
- mS/cm Milisiemens per centimeter
- s.u. Standard units
- NTU Nephelometric Turbidity Units
- N/A Not Applicable
- COC Chain of Custody
- VOC Volatile Organic Compounds
- umhos/cm Micromhos per centimeter

# ARCADIS Water Sampling Log

Project NGC-BUP Project No. NY001348.0806.00002 Page 1 of 1  
 Site Location Bethpage, NY Date 11/21/07  
 Site/Well No. MUPMW4-1 Replicate No. MS/MSD  
 Weather cloudy, 45°F Sampling Time: Begin \_\_\_\_\_ End \_\_\_\_\_

## Evacuation Data

## Field Parameters

Measuring Point TOC  
 Sounded Well Depth (ft bmp) ~70'  
 Depth to Water (ft bmp) 56.48'  
 Depth to Packer (ft bmp) —  
 Water Column in Well (ft) 13.52'  
 Casing Diameter 4" ID  
 Gallons in Well (13.52 × 0.65) = 8.86  
 Gallons Pumped/Bailed  
 Prior to Sampling (8.8 × 3) = 26.46  
 Sample Pump Intake  
 Setting (ft bmp) 15' from bottom  
 Packer Pressure (psi) —  
 Pumping Rate (gpm) 1 G/min  
 Evacuation Method ~~Hand~~  
 Sampling Method Rediflo submersible pump  
 Purge Time Begin 12:35 End \_\_\_\_\_

Color \_\_\_\_\_  
 Odor \_\_\_\_\_  
 Appearance \_\_\_\_\_  
 Conductivity (mS/cm) \_\_\_\_\_  
 Conductivity (µmhos/cm) \_\_\_\_\_  
 Temperature (°C) \_\_\_\_\_  
 DO (mg/L) \_\_\_\_\_  
 Turbidity (NTU) \_\_\_\_\_  
 Time \_\_\_\_\_  
 DTW (ft bmp) 56.48

	1	1V	2V	3V
pH (S.U.)	5.72	5.89	5.81	5.83
Conductivity (mS/cm)	127.5	129.0	138.6	140.3
Conductivity (µmhos/cm)				
Temperature (°C)	12.6	13.2	13.3	13.3
DO (mg/L)				
Turbidity (NTU)				
Time				
DTW (ft bmp)	56.48			

Remarks: PSID = 0.0 mm

Constituents Sampled: See COC Sampling Personnel: GW/JAC

### Well Casing Volumes

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	µmhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		



**ARCADIS**  
**Water Sampling Log**

Project NGC-043 Project No. NY001464.0807.0016W Page 1 of 1  
 Site Location \_\_\_\_\_ Date 2/14/07  
 Site/Well No. MW-4-1 Replicate No. Rep 021407  
 Weather Overcast 25° Sampling Time: Begin 3:20 End 3:22

**Evacuation Data**

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 70  
 Depth to Water (ft bmp) 56.50  
 Depth to Packer (ft bmp) \_\_\_\_\_  
 Water Column in Well (ft) 13.5  
 Casing Diameter 4(1.65)  
 Gallons in Well ≈ 9  
 Gallons Pumped/Bailed  
 Prior to Sampling 27  
 Sample Pump Intake  
 Setting (ft bmp) 55  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 1.5  
 Evacuation Method Redi-Plo  
 Sampling Method 3WV  
 Purge Time Begin 2:47 End 3:05

**Field Parameters**

Color None  
 Odor None  
 Appearance Clear

	1	1V	2V	3V
pH (s.u.)	5.93	5.92	5.90	5.90
Conductivity (µmhos/cm)	—	—	—	—
Conductivity (µmhos/cm)	109.4	122.7	129.8	132.0
Temperature (°C)	10.3	13.0	13.2	13.2
DO (mg/L)	3.37	3.04	2.74	2.88
Turbidity (NTU)	52.1	26.1	13.2	6.57
Time	2:47	2:53	2:59	3:05
DTW (ft bmp)				

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Constituents Sampled: See COC Sampling Personnel: DZ/GW

**Well Casing Volumes**

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	µmhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		



### Water Sampling Log

Project N-Grammer 003 Project No. NY001464, 0807, 00003  
 Site Location Rutledge, NY Date 4/18/07  
 Well No. B4 MW-4-1 Replicate No. N/A Weather Mostly cloudy 55°F  
 Sampling Personnel Williams Prenoski Sampling Time: Begin NA End NA

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 72  
 Depth to Water (ft bmp) 55.82  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 16.18  
 Casing Diameter 4" (0.65)  
 Gallons in Well 10.5  
 Gallons Purged 23  
     Prior to Sampling 32  
 Pump Intake  
     Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 2  
 Evacuation Method Red flow pump  
 Sampling Method 3L vol  
 Purge Time Begin 1418 End 1438

**Field Parameters**

	1	1V	2V	3V
Color <u>colorless</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>
Odor <u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Appearance <u>cloudy</u>	<u>clean</u>	<u>clean</u>	<u>clean</u>	<u>clean</u>
pH (s.u.)	<u>6.64</u>	<u>6.13</u>	<u>6.02</u>	<u>6.08</u>
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	<u>417</u>	<u>154.0</u>	<u>146.2</u>	<u>134.3</u>
Temperature (°C)	<u>14.0</u>	<u>15.1</u>	<u>15.0</u>	<u>15.2</u>
DO (mg/L)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
ORP (mV)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Turbidity (NTU)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Time	<u>1420</u>	<u>1426</u>	<u>1432</u>	<u>1438</u>
DTW (ft bmp)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Remarks: Q=2 T=16 1V=6

Parameter	Container	No.	Preservative
<u>see coc</u>			

PID Reading 2 ppm & wellhead; Breathing zone 0 ppm

Well Casing Volumes				
Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2- <sup>1/2</sup> " = 0.26	3- <sup>1/2</sup> " = 0.50	6" = 1.47

1) Circle one unit type



Infrastructure, environment, facilities

### Low-Flow Groundwater Sampling Log

Project N- Gramman 003 BCP  
 Project Number NY001464.0807.0000 Site Location Bethpage NY Well ID MW4-1  
 Date 4/18/07 Sampled By Williams  
 Sampling Time 1503 Recorded By Prezorsti  
 Weather Mostly cloudy 55°F Coded Replicate No. NA

Instrument Identification  
 Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method Red. Flow Pump / Low Flow  
 Casing Diameter 4" Screen Interval (ft bmp) Top 45 Bottom 65  
 Sounded Depth (ft bmp) 72 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 55.82 Purge Time Start 1440 Finish 1500

#### Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1440		400		14.5	5.95	146.9	-310	5.96		
1445		400		14.2	5.91	156.1	-229	5.04		
1450		↓		15.5	5.90	154.0	-176	4.74		
1455		↓		16.1	5.90	142.6	-374	4.65	7.0	
1500		↓		16.4	5.88	138.9	-211	4.68		

Collected Sample Condition  
 Color Colorless Odor NONE Appearance Clear  
 Parameter see COC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PID Reading NA

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1) Circle one unit type

### Water Sampling Log

Project N-Grammer 003 Project No. NY 1464 OP 1001348, 0807, 00003  
 Site Location Bethpage, NY Date 5/23/07  
 Well No. BCP MW 4-1 Replicate No. R0052307 Weather Partly cloudy High 75°F  
 Sampling Personnel Williamy Prezorki Sampling Time: Begin NA End NA

Purge Data		Field Parameters				
Measuring Point (describe)	<u>TOC</u>	Color	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>
Sounded Well Depth (ft bmp)	<u>70</u>	Odor	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>
Depth to Water (ft bmp)	<u>55.70</u>	Appearance	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Depth to Packer (ft bmp)	<u>/</u>					
Water Column in Well (ft)	<u>14.8</u>					
Casing Diameter	<u>4" (0.65)</u>	pH (s.u.)	<u>6.54</u>	<u>6.50</u>	<u>6.24</u>	<u>6.21</u>
Gallons in Well	<u>9.62</u>	Conductivity				
Gallons Purged	<u>x3</u>	(mS/cm) or	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Prior to Sampling	<u>29</u>	(µmhos/cm) <sup>1)</sup>	<u>184.2</u>	<u>102.2</u>	<u>143.5</u>	<u>104.7</u>
Pump Intake		Temperature (°C)	<u>17.0</u>	<u>16.2</u>	<u>17.1</u>	<u>16.4</u>
Setting (ft bmp)	<u>/</u>	DO (mg/L)	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Packer Pressure (psi)	<u>/</u>	ORP (mV)	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Pumping Rate (gpm)	<u>1</u>	Turbidity (NTU)	<u>3.5</u>	<u>8.2</u>	<u>7.6</u>	<u>9.2</u>
Evacuation Method	<u>2" Redi-flow pump</u>	Time	<u>11:40</u>	<u>11:50</u>	<u>12:00</u>	<u>12:10</u>
Sampling Method	<u>3 well volume</u>	DTW (ft bmp)	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Purge Time	Begin <u>11:39</u> End <u>12:11</u>					
	<u>m</u>					

Remarks: Q = 1 t = 29 LV = 10

Parameter	Container	No.	Preservative
<u>See TOC</u>			

PID Reading 5ppm at wellhead, 0ppm at breathing zone

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	<u>4" = 0.65</u>
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type



Infrastructure, environment, facilities

### Low-Flow Groundwater Sampling Log

Project N-Grumman 003  
 Project Number N4001464, 0807, 00003 Site Location Bethpage, NY Well ID BCP MW 4-1  
 Date 5/23/07 Sampled By Prezorski / Williams  
 Sampling Time 12:32 pm Recorded By Prezorski  
 Weather Partly cloudy High 75°F Coded Replicate No. Rep 052307

Instrument Identification \_\_\_\_\_ Serial # \_\_\_\_\_  
 Water Quality Meter(s) \_\_\_\_\_  
 Casing Material TC Purge Method Low Flow / RedFlow pump  
 Casing Diameter 4" Screen Interval (ft bmp) Top 45 Bottom 65  
 Sounded Depth (ft bmp) 70 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 55.20 Purge Time Start 12:14 pm Finish 12:30 pm

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
12:15	300	300		19.5	5.98	129.3	244	5.27	—	—
12:20	500	500		19.2	5.74	130.6	230	5.03	28	—
12:25	500	500		18.5	5.67	128.5	207	5.22	13	55.27
12:30	500	500		18.7	5.67	123.5	206	5.60	12	—
/										

Collected Sample Condition Color colorless Odor none Appearance clear  
 Parameter see LOC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_

PID Reading \_\_\_\_\_

Comments Purged 3 wv 1' into water table then lowered to mid screen & low flowed. See lower part of 3 wv sampling log

1) Circle one unit type

### Water Sampling Log

Project Gromman 003 Project No. NY00146408070003  
 Site Location Bethpage, NY Date 7/10/07  
 Well No. BCHWY-1 Replicate No. NA Weather Clear 86°F

Sampling Personnel Williams / Rezuski Sampling Time: Begin 9:52 AM End 10:04 AM

Purge Data		Field Parameters				
Measuring Point (describe)	<u>TOC</u>	Color	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>
Sounded Well Depth (ft bmp)	<u>70</u>	Odor	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>
Depth to Water (ft bmp)	<u>55.56</u>	Appearance	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Depth to Packer (ft bmp)	<u>/</u>					
Water Column in Well (ft)	<u>14.44</u>					
Casing Diameter	<u>4" (0.65)</u>	pH (s.u.)	<u>6.22</u>	<u>5.38</u>	<u>5.40</u>	<u>5.40</u>
Gallons in Well	<u>9,386</u>	Conductivity	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Gallons Purged	<u>+3</u>	(mS/cm) or				
Prior to Sampling	<u>29</u>	(µmhos/cm) <sup>1)</sup>	<u>112.2</u>	<u>91.6</u>	<u>90.9</u>	<u>89.6</u>
Pump Intake		Temperature (°C)	<u>18.5</u>	<u>17.9</u>	<u>17.9</u>	<u>17.6</u>
Setting (ft bmp)	<u>/</u>	DO (mg/L)	<u>/</u>	<u>6.27</u>	<u>7.63</u>	<u>5.43</u>
Packer Pressure (psi)	<u>/</u>	ORP (mV)	<u>/</u>	<u>211</u>	<u>225</u>	<u>240</u>
Pumping Rate (gpm)	<u>2</u>	Turbidity (NTU)	<u>24.2</u>	<u>5.06</u>	<u>6.63</u>	<u>5.21</u>
Evacuation Method	<u>2" Redi-Flow Pump</u>	Time	<u>9:14</u>	<u>9:24</u>	<u>9:34</u>	<u>9:44</u>
Sampling Method	<u>3WV</u>	DTW (ft bmp)	<u>/</u>	<u>55.58</u>	<u>/</u>	<u>/</u>
Purge Time	Begin <u>9:14</u> End <u>9:44</u> <u>AM</u>					

Remarks: Pump set 1' into water table  
Pump lowered 1' prior to sampling.  
Q=1 T=29 L=10

(Well sounded to TOC at 72.32')

Parameter	Container	No.	Preservative
<u>see TOC</u>			

PID Reading 0 ppm

Well Casing Volumes				
Gal./Ft.	1 <sup>1/4"</sup> = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

Low-Flow Groundwater Sampling Log

Project Number: NY00344.0806 Task: 00002 Well ID: MW-4-2  
 Date: 8/29/06 Sampled By: D. Zuck / Williams  
 Sampling Time: 1615 Recorded By: D. Zuck  
 Weather: Overcast w/ Rain Coded Replicate No.: Rep 8-29-06

Instrument Identification

Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information

Casing Material: PVC Purge Method: Rediflo / ear-flow  
 Casing Diameter: 4" Screen Interval (ft bmp): Top \_\_\_\_\_ Bottom \_\_\_\_\_  
 Sounded Depth (ft bmp): 57.95 Pump Intake Depth (ft bmp): \_\_\_\_\_  
 Depth to Water (ft bmp): 57.95 Purge time Start: 1510 Finish: 1610

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
1510	0	2450		15.6	5.81	376	96	1.43		57.95	
1515	5			15.3	5.77	384	95	1.25			
1520	10			16.2	5.75	370	96	1.46			
1525	15			16.6	5.74	362	99	2.50		59.90	Water shut off
1530	20			16.2	5.70	353	101	2.76			
1535	25			16.3	5.70	353	102	2.90			
1540	30			16.3	5.70	352	102	2.91			
1545	35			16.3	5.70	351	103	2.95		59.96	
1550	40			16.3	5.69	351	104	3.05			
1555	45			16.3	5.70	350	105	3.03		58.76	
1600	50			16.3	5.64	352	105	3.02			
1605	55			16.3	5.69	353	105	3.01			
1610	60			16.3	5.71	355	105	2.81	7.30	57.97	

Sample Condition Color: None Odor: None Appearance: Clear

Sample Collection Parameter: See Col Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading N/A (Rain)

Comments \_\_\_\_\_





# ARCADIS Water Sampling Log

Project N-Grumman 003 Project No. NY001348.0806.00002 Page 1 of 1  
 Site Location Bethpage, NY Date 10/4/06  
 Site/Well No. MW-4-2 Replicate No. N/A  
 Weather / Sampling Time: Begin 3:40 pm End 3:43 pm

### Evacuation Data

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 91  
 Depth to Water (ft bmp) 58.18  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 32.82  
 Casing Diameter 4" (0.65)  
 Gallons in Well 21.3  
 Gallons Pumped/Bailed 23  
 Prior to Sampling 64  
 Sample Pump Intake /  
 Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 2  
 Evacuation Method Redflow pump  
 Sampling Method 3 well volume  
 Purge Time Begin 3:05 pm End 3:39 pm

### Field Parameters

Color	<u>Light tan</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>
Odor	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Appearance	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
	<u>1</u>	<u>1V</u>	<u>2V</u>	<u>3V</u>
pH (s.u.)	<u>5.71</u>	<u>5.71</u>	<u>5.71</u>	<u>5.73</u>
Conductivity (µmhos/cm)	<u>468</u>	<u>477</u>	<u>475</u>	<u>469</u>
Temperature (°C)	<u>15.9</u>	<u>15.0</u>	<u>14.6</u>	<u>14.7</u>
DO (mg/L)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Turbidity (NTU)	<u>-</u>	<u>-</u>	<u>-</u>	<u>9.2</u>
Time	<u>3:06</u>	<u>3:17</u>	<u>3:28</u>	<u>3:39 pm</u>
DTW (ft bmp)	<u>-</u>	<u>58.04</u>	<u>58.04</u>	<u>58.04</u>

Remarks: Q=2 T=32 IV=11

Constituents Sampled: See COC Sampling Personnel: P. Prozorak / G. Williams

Well Casing Volumes				
Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point mS/cm Milisiemens per centimeter VOC Volatile Organic Compounds  
 °C Degrees Celsius s.u. Standard units umhos/cm Micromhos per centimeter  
 ft feet NTU Nephelometric Turbidity Units  
 gpm Gallons per minute N/A Not Applicable  
 mg/L Miligrams per liter COC Chain of Custody

ARCADIS  
Water Sampling Log

Project NGC Project No. NY001348.0806.00002 Page 1 of 1  
 Site Location Bethpage, NY Date 10/4/06  
 Site/Well No. BCP-mw-4-2 Replicate No. N/A  
 Weather P/C ≈ 65° Sampling Time: Begin 11:14 End 11:15

Evacuation Data

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 48.5  
 Depth to Water (ft bmp) 57.74  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 30.76  
 Casing Diameter (4") X .65  
 Gallons in Well 19.99  
 Gallons Pumped/Bailed  
 Prior to Sampling x3  
60 gal  
 Sample Pump Intake  
 Setting (ft bmp) 69'  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 2 gpm  
 Evacuation Method Red: Flow  
 Sampling Method Red: Flow  
 Purge Time Begin 10:44 End 11:14

Field Parameters

	1	1V	2V	3V
Color	Clear	" "	" "	" "
Odor	None	" "	" "	" "
Appearance	Clear	" "	" "	" "
pH (s.u.)	5.67	5.72	5.72	<del>5.70</del> 5.70
Conductivity				
µmS/cm	630	566	552	560
ORP (µmhos/cm)	102	109	112	112
Temperature (°C)	13.9	13.7	13.8	13.9
DO (mg/L)	-	2.48	2.57	2.88
Turbidity (NTU)	-	-	-	-
Time	10:44	10:54	11:04	11:14
DTW (ft bmp)	57.74	57.95	57.95	57.81

Remarks: Pump Put into Screen ≈ 74'

Constituents Sampled: See COC Sampling Personnel: G.W/D. Eust

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point      mS/cm Milisiemens per centimeter      VOC Volatile Organic Compounds  
 °C Degrees Celsius                      s.u. Standard units                      umhos/cm Micromhos per centimeter  
 ft feet    NTU Nephelometric Turbidity Units  
 gpm Gallons per minute                      N/A Not Applicable  
 mg/L Milligrams per liter                      COC Chain of Custody

**ARCADIS**  
**Water Sampling Log**

Project NORTHROP-GRIFFITH Project No. NY 001348.0806-00002 Page 1 of 1  
 Site Location BENTON NY Date 12-11-06  
 Site/Well No. BPMW-4-2 Replicate No. MS/MSD  
 Weather Clear 45° Sampling Time: Begin 1609 End /

**Evacuation Data**

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 88.5  
 Depth to Water (ft bmp) 57.45  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 31.05  
 Casing Diameter 4 (0.65)  
 Gallons in Well 20.18  
 Gallons Pumped/Bailed X 3  
 Prior to Sampling 61.00  
 Sample Pump Intake /  
 Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) Q=1 T=60 W=20  
 Evacuation Method Redi Pro  
 Sampling Method " "  
 Purge Time Begin 1509 End 1607

**Field Parameters**

Color None -> Lt Brown  
 Odor None  
 Appearance Clear

	1	1V	2V	3V
pH (s.u.)	6.14	6.19	6.16	6.16
Conductivity (µmhos/cm)	362	353	196.5	349
Temperature (°C)	14.5	14.9	14.8	15.0
DO (mg/L)	-	-	-	-
Turbidity (NTU)	-	-	-	-
Time	15:09	15:29	15:45*	16:07
DTW (ft bmp)	57.45			

Remarks: PID 0.0  
\* PUMPING STOPPED AT 16:07

Constituents Sampled: See COC Sampling Personnel: GW DZ

**Well Casing Volumes**

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

bmp below measuring point    mS/cm Milisiemens per centimeter    VOC Volatile Organic Compounds  
 °C Degrees Celsius    s.u. Standard units    umhos/cm Micromhos per centimeter  
 ft feet    NTU Nephelometric Turbidity Units  
 gpm Gallons per minute    N/A Not Applicable  
 mg/L Milligrams per liter    COC Chain of Custody

ARCADIS

Low-Flow Groundwater Sampling Log

Project Number: 111001348 0806 Task: 02202 Well ID: BCP MW4-2  
 Date: 1-11-07 Sampled By: GW PPTC  
 Sampling Time: \_\_\_\_\_ Recorded By: GW  
 Weather: \_\_\_\_\_ Coded Replicate No.: \_\_\_\_\_

Instrument Identification  
 Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information  
 Casing Material: \_\_\_\_\_ Purge Method: 3WD / LOW flow A/S  
 Casing Diameter: \_\_\_\_\_ Screen Interval (ft bmp): Top 68.5' b/s Bottom 88.5' (+smp)  
 Sounded Depth (ft bmp): 88.5 Pump Intake Depth (ft bmp): \_\_\_\_\_  
 Depth to Water (ft bmp): 57.45 Purge time Start: 5:00 Finish: 5:45

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
I	5:00	Pm		11.1	6.44	250					
1U	5:08			12.1	6.2	249					
2U	5:16			13.1	6.25	256					
3U	5:24			12.7	6.25	254					
3	5:30			13.4	6.21	248	177	3.57			
	5:35			13.4	6.20	252	187	3.28			
	5:40			14.0	6.20	256	195	3.14			
	5:45			14.0	6.21	258	203	3.22	8.1		

Sample Condition Color: \_\_\_\_\_ Odor: \_\_\_\_\_ Appearance: \_\_\_\_\_  
 Sample Collection Parameter: See C06 Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading \_\_\_\_\_  
 Comments 88.5  
-57.5

$S_2^- = 0.23$

31.00 31  
1.63 65  
15.3  
18.6  
7.0  
20.5

~~6064445~~ Q=2.5  
 T=24  
 1U=8min



ARCADIS  
Water Sampling Log

Project NGC-043 Project No. NYSDOH4.0407.0016 W Page 1 of 1  
 Site Location Bohannon NY Date 2/14/07  
 Site/Well No. MW-4-2 Replicate No. N/A  
 Weather Snow 24° Sampling Time: Begin 5:05 End 5:03

Evacuation Data

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 90  
 Depth to Water (ft bmp) 57.05  
 Depth to Packer (ft bmp) -  
 Water Column in Well (ft) 32.95  
 Casing Diameter 4" (1.65)  
 Gallons in Well 21.4  
 Gallons Pumped/Bailed  
 Prior to Sampling 65  
 Sample Pump Intake  
 Setting (ft bmp) 75'  
 Packer Pressure (psi) -  
 Pumping Rate (gpm) 82 gpm  
 Evacuation Method RadiFlo  
 Sampling Method 3V/LF  
 Purge Time Begin 4:20 End 4:53

Field Parameters

	1	1V	2V	3V	4V	5V
Color	<u>N/A</u>	<u>N/A</u>	<u>1.4</u>	<u>1.4</u>		
Odor	<u>Trace</u>	<u>N/A</u>	<u>" "</u>	<u>" "</u>		
Appearance	<u>Marked</u>	<u>Clear</u>	<u>1.4</u>	<u>" "</u>		
pH (s.u.)	<u>5.86</u>	<u>5.81</u>	<u>5.79</u>	<u>5.83</u>		
Conductivity (mS/cm)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>		
(µmhos/cm)	<u>243</u>	<u>242</u>	<u>239</u>	<u>240</u>		
Temperature (°C)	<u>12.9</u>	<u>13.2</u>	<u>13.5</u>	<u>13.7</u>		
DO (mg/L)	<u>1.70</u>	<u>2.04</u>	<u>1.81</u>	<u>2.03</u>		
Turbidity (NTU)	<u>50.9</u>	<u>-</u>	<u>-</u>	<u>10.22</u>		
Time	<u>4:20</u>	<u>4:31</u>	<u>4:42</u>	<u>4:53</u>		
DTW (ft bmp)	<u>57.05</u>					

Remarks:

Constituents Sampled: See COC

Sampling Personnel: D. Zark / G. Williams

Well Casing Volumes

Gal./Ft.	1 <sup>1/4"</sup> = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point mS/cm Milisiemens per centimeter VOC Volatile Organic Compounds  
 °C Degrees Celsius s.u. Standard units µmhos/cm Micromhos per centimeter  
 ft feet NTU Nephelometric Turbidity Units  
 gpm Gallons per minute N/A Not Applicable  
 mg/L Milligrams per liter COC Chain of Custody



### Low-Flow Groundwater Sampling Log

Project N - Gorman 003  
 Project Number NY001464.0907.00003 Site Location Bethpage, NY Well ID BCP MW 4-2  
 Date 4/18/07 Sampled By Williams  
 Sampling Time 1605 Recorded By Prezorski  
 Weather Mostly cloudy 55°F Coded Replicate No. N/A

Instrument Identification  
 Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method Red flow pump / Low flow  
 Casing Diameter 4 1/2 Screen Interval (ft bmp) Top 70 Bottom 85  
 Sounded Depth (ft bmp) 91 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 56.48 Purge Time Start 1545 Finish 1605

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) <sup>1</sup>	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1545		400		14.4	6.02	149.7	-261	6.36		
1550		↓		14.1	6.04	158.3	-187	3.87		
1555		↓		14.3	5.96	170.3	-155	3.47		
1600		↓		14.5	5.75	174.2	-113	3.76	7.4	
1605				14.9	5.67	173.0	-133	3.76		

Collected Sample Condition  
 Color colorless Odor slight Appearance clear  
 Parameter See COC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_

PID Reading 0 ppm  
 Comments due to unexpected pumping rate, pumped less than 3 volume pass to low flow purge

1) Circle one unit type



**Water Sampling Log**

 Project N-Grover 003 Project No. NY001464, 080720003  
 Site Location Bethpage, NY Date 7/18/07  
 Well No. BIP MW 4-2 Replicate No. N/A Weather Mostly cloudy 55°F  
 Sampling Personnel Williams/Przorski Sampling Time: Begin NA End NA
**Purge Data**

 Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 91  
 Depth to Water (ft bmp) 56.48  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 34.52  
 Casing Diameter 4" (.65)  
 Gallons in Well 22.44  
 Gallons Purged x3  
     Prior to Sampling 68  
 Pump Intake /  
     Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) ~~12~~ 12  
 Evacuation Method Ret. Flow Pump  
 Sampling Method 3 well volume  
 Purge Time Begin 1514 End 1542
**Field Parameters**

	1	1V	2V	3V
Color	colorless	colorless	colorless	—
Odor	slight	slight	slight	—
Appearance	cloudy	clear	clear	—
pH (s.u.)	6.13	5.78	5.76	—
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	—	—	—	—
	173	195.6	197.0	—
Temperature (°C)	14.8	15.0	15.2	—
DO (mg/L)	—	—	—	—
ORP (mV)	—	—	—	—
Turbidity (NTU)	—	—	—	—
Time	1515	1527	1539	—
DTW (ft bmp)	—	—	—	—

 Remarks: Q = ~~25~~ 2 T = 34 1V = 12

Parameter	Container	No.	Preservative
<u>See TOC</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

 PID Reading Open

Well Casing Volumes				
Gal./Ft.	1 <sup>1/4"</sup> = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type





### Low-Flow Groundwater Sampling Log

Project N-Grummer 003  
 Project Number NY 0814661080700007 Site Location Bethpage, NY Well ID BCP MW 4-2  
 Date 5/23/07 Sampled By Williams / Prezorski  
 Sampling Time 1347 Recorded By Prezorski  
 Weather Partly cloudy 75°F Coded Replicate No. M5/MSP

Instrument Identification  
 Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method Low Flow / RediFlow pump (2")  
 Casing Diameter 4" Screen Interval (ft bmp) Top 68.5 Bottom 83.5  
 Sounded Depth (ft bmp) 88.5 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 55.83 Purge Time Start 1329 Finish 1345

#### Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) <sup>1)</sup>	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1330	450	450		18.9	5.61	174.3	220	3.07	16	
1335		450		18.3	5.51	176.3	224	2.44	9.9	
1340		450		18.6	5.46	175.6	222	2.46	7.9	
1345		450		19.0	5.48	177.5	220	2.27	7.7	55.81

Collected Sample Condition Color colorless Odor slight Appearance clear  
 Parameter See COC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_

PID Reading apparent wellhead  
 Comments Pump set mid screen

1) Circle one unit type

**Water Sampling Log**

Project Grumman 003 Project No. NY001464.0907.00003  
 Site Location Bethpage, NY Date 7/10/07  
 Well No. BCP MW 4-2 Replicate No. NA Weather clear 86°F  
 Sampling Personnel Williams / Perazich Sampling Time: Begin 11:33 AM End 11:43 AM

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 88.5  
 Depth to Water (ft bmp) 56.10  
 Depth to Packer (ft bmp) —  
 Water Column in Well (ft) 32.4  
 Casing Diameter 4" (0.65)  
 Gallons in Well 21.06  
 Gallons Purged 23  
 Prior to Sampling 64  
 Pump Intake —  
 Setting (ft bmp) —  
 Packer Pressure (psi) —  
 Pumping Rate (gpm) 2  
 Evacuation Method 2" RediFlow pump  
 Sampling Method 3 WU  
 Purge Time Begin 10:25 End 11:31

**Field Parameters**

	1V	2V	3V
Color	colorless	colorless	colorless
Odor	slight	slight	slight
Appearance	clear	clear	clear
pH (s.u.)	5.38	5.46	5.41
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	158.8	154.7	154.8
Temperature (°C)	18.2	18.4	18.8
DO (mg/L)	1.09	1.43	2.01
ORP (mV)	241	215	220
Turbidity (NTU)	19.8	8.55	6.86
Time	10:25	10:47	11:09
DTW (ft bmp)	—	—	—

Remarks: Bump at 10' above screen  
pump lowered prior to sampling  
Q=1 T=64 V=22

Parameter	Container	No.	Preservative
<u>See COC</u>	_____	_____	_____
_____	_____	_____	_____

PID Reading 0 ppm

**Well Casing Volumes**

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

**ARCADIS**  
**Water Sampling Log**

Project NGC - BCP Project No. NY001348.0806.00002 Page 1 of 2  
 Site Location Bethpage, NY Date 11/10/07  
 Site/Well No. BCP MW 5-1 Replicate No. Rep011007  
 Weather P. Cloudy, 40°F Sampling Time: Begin 13:40 End 14:30

**Evacuation Data**

Measuring Point TOC  
 Sounded Well Depth (ft bmp) ~70'  
 Depth to Water (ft bmp) 56'  
 Depth to Packer (ft bmp) —  
 Water Column in Well (ft) 14'  
 Casing Diameter 4"  
 Gallons in Well (14 x 0.65) 9.1G  
 Gallons Pumped/Bailed  
 Prior to Sampling 9.1 x 3 ~ 27G  
 Sample Pump Intake  
 Setting (ft bmp) —  
 Packer Pressure (psi) —  
 Pumping Rate (gpm) 2 G/min  
 Evacuation Method —  
 Sampling Method Rediflo pump  
 Purge Time Begin 13:50 End —

**Field Parameters**

Color colorless  
 Odor odorless  
 Appearance clear

	I	IV	2V	3V
pH (s.u.)	6.13	6.09	5.65	5.65
Conductivity (mS/cm)	368	342	345	344
Conductivity (umhos/cm)				
Temperature (°C)	11.4	12	12.5	12.3
DO (mg/L)				
Turbidity (NTU)				
ORP	1450			
DTW (ft bmp)	56'			

Remarks: Sampling continued on low-flow log.

Constituents Sampled: See COC Sampling Personnel: FW/JAC

**Well Casing Volumes**

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point  
 °C Degrees Celsius  
 ft feet  
 gpm Gallons per minute  
 mg/L Milligrams per liter  
 mS/cm Millisiemens per centimeter  
 s.u. Standard units  
 NTU Nephelometric Turbidity Units  
 N/A Not Applicable  
 COC Chain of Custody  
 VOC Volatile Organic Compounds  
 umhos/cm Micromhos per centimeter

ARCADIS

pg 2/2

### Low-Flow Groundwater Sampling Log

Project Number: M001348-0506 Task: 00000 Well ID: BCP MW-5-1  
 Date: 1/19/07 Sampled By: GW/SAC  
 Sampling Time: 13:40 Recorded By: SAC  
 Weather: p. cloudy, 40°F Coded Replicate No.: Dep011007

Instrument Identification  
 Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information  
 Casing Material: PVC Purge Method: LOW FLOW / Pedi FLO  
 Casing Diameter: 4" Screen Interval (ft bmp): Top 50 Bottom 65  
 Sounded Depth (ft bmp): 70' Pump Intake Depth (ft bmp): 8' from bottom  
 Depth to Water (ft bmp): 56' Purge time Start: 12:50 Finish: 13:40

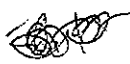
#### Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
13:25	-			9.2	5.64	347	135	4.25	14	56.2	
13:25				10.7	5.69	346	131	3.48			
13:30				12.3	5.70	346	126	3.43		56.18	
13:35				12.4	5.72	340	125	3.17	18		
13:40				12.1	5.75	340	123	3.40	14	56.20	

Sample Condition Color: colorless Odor: odorless Appearance: clear  
 Sample Collection Parameter: see CAL Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading \_\_\_\_\_  
 Comments switched to low flow at 13:20 from 3-well volume.

$S_2^- = 0.003 \text{ mg/L}$





**ARCADIS**  
**Water Sampling Log**

Project NGC-043 Project No. NY001464.0607.001GW Page 1 of 1  
 Site Location Bethpage, NY Date 2/19/07  
 Site/Well No. MW-5-1 Replicate No. MS/MSD  
 Weather Rain & Sleet 32° Sampling Time: Begin 2:00 End 2:05

**Evacuation Data**

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 220  
 Depth to Water (ft bmp) 55.30  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 15  
 Casing Diameter 4" (.65)  
 Gallons in Well 9.75  
 Gallons Pumped/Bailed  
 Prior to Sampling 30  
 Sample Pump Intake  
 Setting (ft bmp) 60  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 2  
 Evacuation Method Redi Flo / 34V  
 Sampling Method Low Flow  
 Purge Time Begin 1:30 End 2:00

**Field Parameters**

Color None  
 Odor None  
 Appearance Slight murkiness

	1	1V	2V	3V
pH (s.u.)	6.09	5.72	5.84	5.75
Conductivity (mS/cm)	—	—	—	—
(umhos/cm)	393	356	349	349
Temperature (°C)	11.1	12.5	13.0	12.9
DO (mg/L)	2.66	1.30	1.46	1.59
Turbidity (NTU)	1.48	52.8	13.0	7.48
Time	1:30	1:35	1:40	1:45
DTW (ft bmp)	55.30	—	—	—

Remarks: DO cal. off reading

Constituents Sampled: See COC Sampling Personnel: G. Williams / D. Zuck

**Well Casing Volumes**

Gal./Ft. 1<sup>1/4"</sup> = 0.06      2" = 0.16      3" = 0.37      4" = 0.65  
 1<sup>1/2"</sup> = 0.09      2-<sup>1</sup>/<sub>2</sub>" = 0.26      3-<sup>1</sup>/<sub>2</sub>" = 0.50      6" = 1.47

bmp below measuring point      mS/cm Milisemens per centimeter      VOC Volatile Organic Compounds  
 °C Degrees Celsius      s.u. Standard units      umhos/cm Micromhos per centimeter  
 ft feet      NTU Nephelometric Turbidity Units  
 gpm Gallons per minute      N/A Not Applicable  
 mg/L Miligrams per liter      COC Chain of Custody



**Water Sampling Log**

Project N-Grammer Project No. NY00464.0807.00003  
 Site Location Bethpage, NY Date 4/19/07  
 Well No. BCP MW 5-1 Replicate No. MS/MSD Weather overcast 50s  
 Sampling Personnel Williams Prezorski Sampling Time: Begin NA End NA

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 70  
 Depth to Water (ft bmp) 54.27  
 Depth to Packer (ft bmp) —  
 Water Column in Well (ft) 15.73  
 Casing Diameter 4" (0.65)  
 Gallons in Well 10.22 + 5.73  
 Gallons Purged x3  
     Prior to Sampling 31  
 Pump Intake —  
     Setting (ft bmp) —  
 Packer Pressure (psi) —  
 Pumping Rate (gpm) 2  
 Evacuation Method Rediflow pump  
 Sampling Method 3 well volume  
 Purge Time Begin 9:00 AM End 9:19 AM

**Field Parameters**

	1	1V	2V	3V
Color	<u>tan</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>
Odor	<u>slight</u>	<u>slight</u>	<u>slight</u>	<u>Moderate</u>
Appearance	<u>turbid</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
pH (s.u.)	<u>6.27</u>	<u>5.80</u>	<u>5.63</u>	<u>5.57</u>
Conductivity (µmhos/cm) <sup>1)</sup>	<u>714</u>	<u>568</u>	<u>559</u>	<u>558</u>
Temperature (°C)	<u>14.2</u>	<u>15.1</u>	<u>15.4</u>	<u>15.5</u>
DO (mg/L)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
ORP (mV)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Turbidity (NTU)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Time	<u>9:00 AM</u>	<u>9:06 AM</u>	<u>9:12 AM</u>	<u>9:18 AM</u>
DTW (ft bmp)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Remarks: Q=2 T=15.5 1V=6

Parameter	Container	No.	Preservative
<u>See COC</u>			

PID Reading 43.6 ppm at wellhead; Breathing zone oppm

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	5" = 0.91	6" = 1.47
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	4" = 0.65	5" = 0.91	6" = 1.47

1) Circle one unit type



Infrastructure, environment, facilities

### Low-Flow Groundwater Sampling Log

Project N-Grumman 0V3  
 Project Number NY 001464.0907.0003 Site Location Bethpage, NY Well ID BCPMW5-1  
 Date 4/19/07 Sampled By William  
 Sampling Time 9:36 AM Recorded By Prezorki  
 Weather overcast 50s Coded Replicate No. MS/MSD

Instrument Identification  
 Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method Low Flow / Rediflow pump  
 Casing Diameter 4" Screen Interval (ft bmp) Top 50 Bottom 65  
 Sounded Depth (ft bmp) 70 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 54.27 Purge Time Start 9:21 AM Finish 9:35 AM

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) <sup>1)</sup>	ORP (mV)	DO % (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
9:21 AM		400		14.9	5.61	550	-302	30.7		
9:25		↓		14.5	5.60	550	-261	26.0		
9:30		↓		13.7	5.58	555	-203	27.3		
9:35		↓		13.4	5.58	557	-217	23.3	13	

Collected Sample Condition Color colorless Odor Moderate Appearance None  
 Parameter see LOC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_

PID Reading 43.6 ppm at wellhead; Breathing zone 0 ppm  
 Comments Do readings in %

1) Circle one unit type



### Water Sampling Log

Project N-Crumm Project No. NY001464.0807.00003  
 Site Location Bethpage, NY Date 5/24/07  
 Well No. BCPMW 5-1 Replicate No. NA Weather clear, High of 80°F  
Williams  
 Sampling Personnel Prezowski Sampling Time: Begin NA End NA

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 70  
 Depth to Water (ft bmp) 55.12  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 14.88  
 Casing Diameter 4" (0.65)  
 Gallons in Well 9.7  
 Gallons Purged x3  
     Prior to Sampling 30  
 Pump Intake  
     Setting (ft bmp) approx 56  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 1  
 Evacuation Method 2" Rediflow pump  
 Sampling Method 3 well volume  
 Purge Time Begin 10:26 End 10:56 AM

**Field Parameters**

	1	1V	2V	3V
Color	<u>tan</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>
Odor	<u>slight</u>	<u>slight</u>	<u>Moderate</u>	<u>Moderate</u>
Appearance	<u>turbid</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
pH (s.u.)	<u>6.38</u>	<u>6.11</u>	<u>5.78</u>	<u>5.77</u>
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Temperature (°C)	<u>17.1</u>	<u>17.0</u>	<u>16.8</u>	<u>16.8</u>
DO (mg/L)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
ORP (mV)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Turbidity (NTU)	<u>550</u>	<u>55</u>	<u>22</u>	<u>24</u>
Time	<u>10:26</u>	<u>10:36</u>	<u>10:46</u>	<u>10:56</u>
DTW (ft bmp)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

**Remarks:**

Q=1 f=30 1V=10  
Pump set 2" into water table

Parameter	Container	No.	Preservative
<u>See TOC</u>			

PID Reading 44 ppm at well head; 0 ppm at Breathing zone

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	<u>4" = 0.65</u>
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type

**Water Sampling Log**

Project N-Grommar 003 Project No. NY00146408070003  
 Site Location Bethpage, NY Date 7-12-07  
 Well No. BCPMW5-1 Replicate No. NA Weather clear 80°F  
 Sampling Personnel Williams Perowski Sampling Time: Begin 1535 End 1549

Purge Data	Field Parameters			
	Color	colorsec	colorcon	colorlan
Measuring Point (describe) <u>TOC</u>	<u>tan</u>	<u>colorsec</u>	<u>colorcon</u>	<u>colorlan</u>
Sounded Well Depth (ft bmp) <u>70</u>	<u>slight</u>	<u>slight</u>	<u>slight</u>	<u>slight</u>
Depth to Water (ft bmp) <u>55.74</u>	<u>turbid</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Depth to Packer (ft bmp) <u>/</u>				
Water Column in Well (ft) <u>14.26</u>				
Casing Diameter <u>4" (0.65)</u>	pH (s.u.)	<u>6.03</u>	<u>6.00</u>	<u>6.53</u>
Gallons in Well <u>9.3</u>	Conductivity			
Gallons Purged <u>x3</u>	(mS/cm) or			
Prior to Sampling <u>28</u>	(umhos/cm) <sup>1)</sup>	<u>427</u>	<u>396</u>	<u>425</u>
Pump Intake	Temperature (°C)	<u>17.8</u>	<u>17.7</u>	<u>17.0</u>
Setting (ft bmp) <u>/</u>	DO (mg/L)	<u>.75</u>	<u>2.09</u>	<u>2.08</u>
Packer Pressure (psi) <u>/</u>	ORP (mV)	<u>93</u>	<u>120</u>	<u>47</u>
Pumping Rate (gpm) <u>1</u>	Turbidity (NTU)	<u>559</u>	<u>30.6</u>	<u>15.6</u>
Evacuation Method <u>2" Red-Flow pump</u>	Time	<u>1455</u>	<u>1505</u>	<u>1515</u>
Sampling Method <u>3 well volume</u>	DTW (ft bmp)			
Purge Time Begin <u>1455</u> End <u>1527</u>				

Q=1 t=28 LV=LO

Remarks: Pump set several feet into water table  
(for purge & sample)

Parameter	Container	No.	Preservative
<u>see coc</u>			

PID Reading High Humidity

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47



### Low-Flow Groundwater Sampling Log

Project N-Grammer 003  
 Project Number NY 001164,0807,00003 Site Location Bethpage, NY Well ID BCP MW 6-2  
 Date 5/24/07 Sampled By Williams  
 Sampling Time 12:23 pm Recorded By Prazorski  
 Weather clear, High of 90°F Coded Replicate No. N/A

**Instrument Identification**

Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method Redflow pump / Low Flow  
 Casing Diameter 4" Screen Interval (ft bmp) Top 135 Bottom 145  
 Sounded Depth (ft bmp) 150 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 51.74 Purge Time Start 11:51 AM Finish 12:18 p

**Field Parameter Measurements During Purging**

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) <sup>1)</sup>	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
11:53	—	500		20.8	6.17	372	127	4.74	7200	—
11:55		500		20.2	5.91	397	136	4.99	7200	51.82
12:00		600		20.4	5.75	408	154	5.56	500	—
12:05		900		20.5	5.73	408	160	5.69	170	51.83
12:10		900		20.6	5.65	411	174	5.79	90	—
12:15		900		20.7	5.62	409	181	5.89	50	51.83
12:18		900		—	—	—	—	—	32	—

Collected Sample Condition Color colorless Odor None Appearance clear  
 Parameter see COC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PID Reading opposed wellhead  
 Comments Bump set at mid-screen

1) Circle one unit type

**ARCADIS**  
**Water Sampling Log**

Project N-Grumman 003 Project No. NY 001464, 0807, 00003 Page 1 of 1  
 Site Location Bethpage, NY Date 4/19/07  
 Site/Well No. BCP MW5-2 Replicate No. N/A  
 Weather Mostly cloudy Sampling Time: Begin NA End NA

**Evacuation Data**

Measuring Point TOC  
 Sounded Well Depth (ft bmp) 150  
 Depth to Water (ft bmp) 52.57  
 Depth to Packer (ft bmp) -  
 Water Column in Well (ft) 97.43  
 Casing Diameter 4" (0.65)  
 Gallons in Well 63.3  
 Gallons Pumped/Bailed x 3  
 Prior to Sampling 190  
 Sample Pump Intake -  
 Setting (ft bmp) -  
 Packer Pressure (psi) -  
 Pumping Rate (gpm) 3  
 Evacuation Method Rediflow pump  
 Sampling Method 3 well volume  
 Purge Time Begin 1452 End 1558

**Field Parameters**

	Brown	Colorless	Colorless	Colorless
Color	Brown	Colorless	Colorless	Colorless
Odor	NONE	NONE	NONE	NONE
Appearance	turbid	clear	clear	clear
	1	1V	2V	3V
pH (s.u.)	5.52	5.66	5.57	5.59
Conductivity (mS/cm)	-	-	-	-
(umhos/cm)	408	410	414	410
Temperature (°C)	16.2	16.6	17.0	16.9
DO (mg/L)	-	-	-	-
Turbidity (NTU)	-	-	-	-
Time	1452	1514	1536	1558
DTW (ft bmp)	-	-	-	-

Remarks: Q=3 +=64 1V=22

Constituents Sampled: See COC Sampling Personnel: Williams / Prezorski

**Well Casing Volumes**

Gal./Ft.	1 <sup>1/4"</sup> = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point      mS/cm Milisiemens per centimeter      VOC Volatile Organic Compounds  
 °C Degrees Celsius                      s.u. Standard units                      umhos/cm Micromhos per centimeter  
 ft feet    NTU Nephelometric Turbidity Units  
 gpm Gallons per minute                      N/A Not Applicable  
 mg/L Milligrams per liter                      COC Chain of Custody





**Water Sampling Log**

Project Grumman O&G Project No. NY001464.0807.0003  
 Site Location Bethpage, NY Date 7/10/07  
 Well No. BCP MW 6-2 Replicate No. Rep071007 Weather clear 92°F  
 Sampling Personnel Williams Prozostki Sampling Time: Begin 1654 End 1720

Purge Data		Field Parameters				
Measuring Point (describe)	<u>TOC</u>	Color	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>	<u>colorless</u>
Sounded Well Depth (ft bmp)	<u>150</u>	Odor	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>
Depth to Water (ft bmp)	<u>52.13</u>	Appearance	<u>cloudy</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Depth to Packer (ft bmp)	<u>—</u>					
Water Column in Well (ft)	<u>97.87</u>					
Casing Diameter	<u>4" (0.65)</u>	pH (s.u.)	<u>5.00</u>	<u>5.27</u>	<u>5.31</u>	<u>5.44</u>
Gallons in Well	<u>63.6</u>	Conductivity	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Gallons Purged	<u>x3</u>	(mS/cm) or				
Prior to Sampling	<u>191</u>	(µmhos/cm) <sup>1)</sup>	<u>182.1</u>	<u>190.2</u>	<u>188.7</u>	<u>190.7</u>
Pump Intake		Temperature (°C)	<u>19.3</u>	<u>20.2</u>	<u>19.3</u>	<u>—</u>
Setting (ft bmp)	<u>—</u>	DO (mg/L)	<u>5.42</u>	<u>5.92</u>	<u>5.66</u>	<u>5.89</u>
Packer Pressure (psi)	<u>—</u>	ORP (mV)	<u>246</u>	<u>243</u>	<u>262</u>	<u>243</u>
Pumping Rate (gpm)	<u>2</u>	Turbidity (NTU)	<u>130</u>	<u>29.0</u>	<u>9.28</u>	<u>8.23</u>
Evacuation Method	<u>2" Redi-Flow pump</u>	Time	<u>1510</u>	<u>1542</u>	<u>1614</u>	<u>1646</u>
Sampling Method	<u>3 well volume</u>	DTW (ft bmp)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Purge Time	Begin <u>1510</u> End <u>1650</u>					

Remarks: Well BCP MW 6-2. Pump set 10' above screen  
p=2 f=95.5 10=32  
Pump lowered prior to sampling

Parameter	Container	No.	Preservative
<u>See COC</u>			

PID Reading Opps

Well Casing Volumes				
Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

### Water Sampling Log

Project N-Gummer 003 Project No. N1001464.0807.0003  
 Site Location Bethpage NY Date 7/11/07  
 Well No. BCPMW7-1 Replicate No. NA Weather cloudy 83°F  
 Sampling Personnel Williams Prezorski Sampling Time: Begin 1456 End 1504

Purge Data	Field Parameters			
	1	1V	2V	3V
Measuring Point (describe)	TOC			
Sounded Well Depth (ft bmp)	105			
Depth to Water (ft bmp)	51.81			
Depth to Packer (ft bmp)	/			
Water Column in Well (ft)	53.19			
Casing Diameter	4" (0.65)			
Gallons in Well	34.6			
Gallons Purged	23			
Prior to Sampling	104			
Pump Intake	/			
Setting (ft bmp)	/			
Packer Pressure (psi)	/			
Pumping Rate (gpm)	2			
Evacuation Method	2" Rediflow pump			
Sampling Method	3 well volume			
Purge Time	Begin 1358 End 1452			
	Color	colorless	colorless	colorless
	Odor	None	None	None
	Appearance	clear	clear	clear
	pH (s.u.)	5.69	5.37	5.32
	Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	193.4	393	402
	Temperature (°C)	18.7	18.4	18.2
	DO (mg/L)	5.61	5.50	5.26
	ORP (mV)	228	257	270
	Turbidity (NTU)	5.61	2.82	2.34
	Time	1358	1416	1434
	DTW (ft bmp)	/	/	/

Remarks: Pump set at 10' above screen  
Q=2 t=52 LV=18  
Pump raised prior to sampling

Parameter	Container	No.	Preservative
<u>See coc</u>			

PID Reading High Humidity

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47



### Low-Flow Groundwater Sampling Log

Project N-Grammer 003  
 Project Number NY 10/64/0807.00027 Site Location Bethpage, NY Well ID BCP MW4-3  
 Date 4/19/07 Sampled By Williams  
 Sampling Time 1346 Recorded By Prezorski  
 Weather overcast 55°F Coded Replicate No. Rep 041907

Instrument Identification  
 Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method Redflow pump / Low Flow  
 Casing Diameter 4" Screen Interval (ft bmp) Top 115 Bottom 125  
 Sounded Depth (ft bmp) 130 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 56.26 Purge Time Start 1328 Finish 1345

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) <sup>1)</sup>	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1328				15.7	5.18	149.1	—	7.16		
1335		350		15.7	5.19	145.8	-65	5.91		
1340		350		15.3	5.20	145.8	-38	5.73		
1345		350		15.1	5.23	146.1	-32	6.00	36	

Collected Sample Condition Color colorless Odor none Appearance clear  
 Parameter See COC Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PID Reading 1.2 ppm d w/ wellhead, breathing zone oppm  
 Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1) Circle one unit type

**Water Sampling Log**

 Project N-Grammer OUS Project No. NY001464.0807.00007  
 Site Location Bethpage, NY Date 4/19/07  
 Well No. BCP-MW4-3 Replicate No. R041907 Weather Overcast 55°F  
 Sampling Personnel Prozorcki Williams Sampling Time: Begin NA End NA

Purge Data		Field Parameters				
Measuring Point (describe)	<u>TOC</u>	Color	<u>Brown</u>	<u>Colorless</u>	<u>Colorless</u>	<u>Colorless</u>
Sounded Well Depth (ft bmp)	<u>130</u>	Odor	<u>slight</u>	<u>none</u>	<u>none</u>	<u>none</u>
Depth to Water (ft bmp)	<u>56.26</u>	Appearance	<u>Turbid</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Depth to Packer (ft bmp)	<u>—</u>					
Water Column in Well (ft)	<u>73.74</u>					
Casing Diameter	<u>4" (0.65)</u>	pH (s.u.)	<u>5.91</u>	<u>5.45</u>	<u>5.22</u>	<u>5.18</u>
Gallons in Well	<u>47.9</u>	Conductivity				
Gallons Purged	<u>43</u>	(mS/cm) or	<u>—</u>	<u>—</u>	<u>—</u>	
Prior to Sampling	<u>144</u>	(µmhos/cm) <sup>1)</sup>	<u>151.4</u>	<u>147.3</u>	<u>146.0</u>	<u>146.9</u>
Pump Intake		Temperature (°C)	<u>15.0</u>	<u>15.2</u>	<u>15.0</u>	<u>15.7</u>
Setting (ft bmp)	<u>—</u>	DO (mg/L)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Packer Pressure (psi)	<u>—</u>	ORP (mV)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Pumping Rate (gpm)	<u>3</u>	Turbidity (NTU)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Evacuation Method	<u>RediPlan pump</u>	Time	<u>12:39</u>	<u>12:55</u>	<u>13:11</u>	<u>13:27</u>
Sampling Method	<u>3 well volume</u>	DTW (ft bmp)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Purge Time	Begin <u>12:39</u> End <u>13:27</u> <u>pm</u>					

 Remarks: Q = 3 + = 48 1V = 16

Parameter	Container	No.	Preservative
<u>See TOC</u>			

 PID Reading 1.2 ppm at wellhead; Breathing zone appx

Well Casing Volumes				
Gal./Ft.	<u>1<sup>1/4</sup>" = 0.06</u>	<u>2" = 0.16</u>	<u>3" = 0.37</u>	<u>4" = 0.65</u>
	<u>1<sup>1/2</sup>" = 0.09</u>	<u>2-1/2" = 0.26</u>	<u>3-1/2" = 0.50</u>	<u>6" = 1.47</u>

1) Circle one unit type

### Water Sampling Log

Project Crumman 003 Project No. NY001464.0807.00003  
 Site Location Bethpage, NY Date 7/10/07  
 Well No. BCP MW 4-3 Replicate No. N/A Weather clear 91°F  
 Sampling Personnel Williams, Rozetti Sampling Time: Begin 1408 End 1419

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 135  
 Depth to Water (ft bmp) 55.89  
 Depth to Packer (ft bmp) /  
 Water Column in Well (ft) 79.11  
 Casing Diameter 4" (0.65)  
 Gallons in Well 51.42  
 Gallons Purged x3  
     Prior to Sampling 155  
 Pump Intake /  
     Setting (ft bmp) /  
 Packer Pressure (psi) /  
 Pumping Rate (gpm) 2  
 Evacuation Method 2" Redflow Pump  
 Sampling Method 3 well volume  
 Purge Time Begin 12:50 End 1408

**Field Parameters**

	1	1V	2V	3V
Color	colorless	colorless	colorless	colorless
Odor	None	None	None	None
Appearance	cloudy	clear	clear	clear
pH (s.u.)	5.88	5.01	4.91	4.83
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	—	—	—	—
Temperature (°C)	19.2	19.0	18.3	19.1
DO (mg/L)	6.85	6.62	6.24	6.09
ORP (mV)	219	258	282	291
Turbidity (NTU)	441	146	36.0	13.9
Time	12:50	1316	1342	1408
DTW (ft bmp)	—	—	—	—

Remarks: Pump placed above screen.  
Prior to sampling pump lowered 8'  
Q=2 T=77.5 1V=2.6  
No cap on well. Plastic bag over well casing

Parameter	Container	No.	Preservative
<u>See log</u>			

PID Reading Open

**Well Casing Volumes**

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47



### Low-Flow Groundwater Sampling Log

Project N-Gamma 003  
 Project Number NYC01464, 0007, 00003 Site Location Bethpage, NY Well ID BCPMW4-3  
 Date 9-18-07 Sampled By Williams  
 Sampling Time 1326 Recorded By Prezorski  
 Weather clear 65°F Coded Replicate No. NA

Instrument Identification  
 Water Quality Meter(s) \_\_\_\_\_ Serial # \_\_\_\_\_  
 Casing Material PVC Purge Method Rediflow Pump/Low Flow  
 Casing Diameter 4" Screen Interval (ft bmp) Top 115 Bottom 125  
 Sounded Depth (ft bmp) 135 Pump Intake Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) 55.79 Purge Time Start 1312 Finish 1326

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm)†	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1315		450		16.8	5.19	256	285	6.22		
1320		450		16.7	5.19	259	279	5.62	18.6	55.79
1325		450		17.0	5.20	257	279	5.59	16.2	

Collected Sample Condition Color colorless Odor none Appearance clear  
 Parameter see coc Container \_\_\_\_\_ No. \_\_\_\_\_ Preservative \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PID Reading \_\_\_\_\_  
 Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1) Circle one unit type

### Water Sampling Log

Project N-Grommon 003 Project No. NY001464.0807.00003  
 Site Location Bethpage, NY Date 9-18-07  
 Well No. BCP MW 4-3 Replicate No. NA Weather clear, 65°F  
 Sampling Personnel Williams & Przeworski Sampling Time: Begin            End           

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 135  
 Depth to Water (ft bmp) 55.79  
 Depth to Packer (ft bmp)             
 Water Column in Well (ft) 79.21  
 Casing Diameter 4" (0.65)  
 Gallons in Well 51.49  
 Gallons Purged x3  
     Prior to Sampling 155  
 Pump Intake             
     Setting (ft bmp) \*  
 Packer Pressure (psi)             
 Pumping Rate (gpm) 2  
 Evacuation Method Recirc flow pump  
 Sampling Method             
 Purge Time Begin 11:47 End 13:05

**Field Parameters**

	1	1V	2V	3V
Color	colorless	colorless	colorless	colorless
Odor	slight	slight	slight	slight
Appearance	cloudy	clear	clear	clear
pH (s.u.)	5.81	5.58	5.19	5.18
Conductivity (mS/cm) or (µmhos/cm)	459	300	264	258
Temperature (°C)	16.1	16.4	16.3	16.6
DO (mg/L)	6.41	5.41	5.66	5.94
ORP (mV)	168	188	224	277
Turbidity (NTU)	148	6.91	4.00	3.13
Time	11:47 <sup>AM</sup>	12:13	12:39	13:05
DTW (ft bmp)	11:47			

Remarks: \* Pump set above screen. Pump lowered prior to low flow sampling.  
Q=2 t=155 1V=26  
Installed well cap

Parameter	Container	No.	Preservative
<u>See COC</u>			

PID Reading no cap on well (bag over TOC)

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	<u>4" = 0.65</u>
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type

Water Sampling Log

HN-405

Project Northcop Gorman Project No. NY 001348.0806.0002 Page: 1 of 1  
 Site Location Bethpage, NY Date 4/13/06  
 Site/Well No. HN-405 Replicate No. N/A Code No.       
 Weather Clear 70° Sampling Time: Begin 11:30 End 12:01pm

Evacuation Data  
 Measuring Point TOC  
 MP Elevation (ft)       
 Land Surface Elevation (ft)       
 Sounded Well Depth (ft bmp) 59  
 Depth to Water (ft bmp) 47.65  
 Water-Level Elevation (ft)       
 Water Column in Well (ft) 11.35  
 Casing Diameter/Type 4" (0.65)  
 Gallons in Well 7.4  
 Gallons Pumped/Bailed Prior to Sampling 22 x 3  
 Sample Pump Intake Setting (ft bmp)       
 Purge Time begin      end       
 Pumping Rate (gpm) Q = 1 gpm T = 22.5 min  
 Evacuation Method RediFlow pump

Field Parameters	1	2	3	4
Color	colorless	colorless	colorless	colorless
Odor	odorless	odorless	odorless	odorless
Appearance	none	none	none	none
pH (s.u.)	4.97	5.24	5.31	5.31
Conductivity (mS/cm)	-	-	-	-
(umhos/cm)	152.9	157.9	177.5	194.6
Turbidity (NTU)	-	-	-	(10)
Temperature (°C)	16.6	16.6	16.7	16.7
Dissolved Oxygen (mg/L)	-	-	-	-
Salinity (‰) Time	11:34	11:44	11:48	11:55
Sampling Method	3 Well volume			
Remarks	Ant colony in well located, PID=0.0 @ BH			

Constituents Sampled	Container Description	Number	Preservative
<u>see COC</u>			

Sampling Personnel SAC / PP

Gal./Ft.	Well Casing Volumes			
	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.09	2-1/2" = 0.25	3-1/2" = 0.50	6" = 1.47

- bmp below measuring point
- ml milliliter
- °C Degrees Celsius
- mS/cm Milisiemens per centimeter
- ft feet
- msl mean sea-level
- gpm Gallons per minute
- N/A Not Applicable
- mg/L Miligrams per liter
- NR Not Recorded
- NTU Nephelometric Turbidity Units
- PVC Polyvinyl chloride
- s.u. Standard units
- umhos/cm Micromhos per centimeter
- VOC Volatile Organic Compounds



Low-Flow Groundwater Sampling Log

Project Number: NY 001348.0806 Task: 00002 Well ID: HN-401  
 Date: 4/13/06 Sampled By: Scherlitz / P. Prerashv  
 Sampling Time: 13:45 Recorded By: Scherlitz  
 Weather: Clear, 70° Coded Replicate No.: MS/MSD

Instrument Identification

Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information

Casing Material: PVC Purge Method: RediFlo pump / low flow  
 Casing Diameter: 4" Screen Interval (ft bmp): Top 108 Bottom 118  
 Sounded Depth (ft bmp): 118 Pump Intake Depth (ft bmp): 113  
 Depth to Water (ft bmp): 47.38 Purge time Start: 12:40 Finish: 13:45

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (µS/cm)	ORP (mv)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
12:40	-	-	-	17.6	5.58	240	302	6.05	-	47.38	
12:45				17.3	5.52	238	290	5.41			
12:50				17.6	5.52	241	282	5.57		47.41	
12:55				18.1	5.49	237	272	5.34			
13:00				18.4	5.49	233	263	5.30		47.41	
13:05				18.5	5.49	231	255	5.20			
13:10				18.7	5.47	229	251	5.18		47.41	
13:15				18.9	5.47	227	246	5.13			
13:20				18.7	5.47	227	244	5.20		47.41	DO=5.24
13:25				18.5	5.47	227	242	5.08	8.4		
13:30				18.9	5.47	227	211	4.99	6.6	47.41	
13:35				18.5	5.47	226	240	5.20	6.2		
13:40				18.5	5.47	224	238	4.99	5.5	47.41	ORP=238

Sample Condition Color: Colorless Odor: odorless Appearance: Clear

Sample Collection Parameter: See COL Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading 0.0 ppm

Comments \_\_\_\_\_

Low-Flow Groundwater Sampling Log

Project Number: N7901348, 0806 Task: 0002 Well ID: HN-4aI  
 Date: 9/13/06 Sampled By: Scherlin / Pprezorski  
 Sampling Time: 16:35 Recorded By: Scherlin  
 Weather: clear, 70° Coded Replicate No.: N/A

Instrument Identification

Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information

Casing Material: PVC Purge Method: Ret: Flo pump / low flow  
 Casing Diameter: 4" Screen Interval (ft bmp): Top 100 Bottom 110  
 Sounded Depth (ft bmp): 110 Pump Intake Depth (ft bmp): 105  
 Depth to Water (ft bmp): 48.89 Purge time Start: 15:40 Finish: 16:35

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
15:40				17.4	11.00	238	38	4.84		48.89	
15:45				17.2	11.0	215	32	4.32			
15:50				17.7	10.97	173.9	30	4.54		48.95	
15:55				18.3	10.96	165.7	27	4.47			
16:00				18.5	10.94	164.6	26	4.50		48.95	
16:05				18.5	10.91	169.8	26	4.53			
16:10				18.4	10.89	171.5	25	4.57		48.95	
16:15				18.2	10.87	185.2	26	4.44			
16:20				18.1	10.92	181.6	27	4.45		48.95	
16:25				18.1	10.77	180.1	28	4.20	15		
16:30				18.3	10.73	182.7	30	4.29	17	48.95	

Sample Condition Color: colorless Odor: odorless Appearance: clear

Sample Collection Parameter: seccol Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading 0.0 ppm

Comments \_\_\_\_\_

# Water Sampling Log

Project Northrop Grumman Project No. N4091348.0806.0002 Page 1 of 1  
 Site Location Bethpage, NY Date 4/13/06  
 Site/Well No. HW-425 Replicate No. N/A Code No. \_\_\_\_\_  
 Weather Partly cloudy, 60°F Sampling Time: Begin 17:20 End 17:40

Evacuation Data  
 Measuring Point TOC  
 MP Elevation (ft) \_\_\_\_\_  
 Land Surface Elevation (ft) \_\_\_\_\_  
 Sounded Well Depth (ft bmp) 60.00  
 Depth to Water (ft bmp) 50.58  
 Water-Level Elevation (ft) ~~50.58~~  
 Water Column in Well (ft) 9.42  
 Casing Diameter/Type 4" (0.65)  
 Gallons in Well 6.126  
 Gallons Pumped/Bailed Prior to Sampling 18.376  
 Sample Pump Intake Setting (ft bmp) \_\_\_\_\_  
 Purge Time begin 17:20 end 17:40  
 Pumping Rate (gpm) Q=1 T=18  
 Evacuation Method Rediflo pump

Field Parameters	I	IV	2V	3V
Color	Colorless	Colorless	Colorless	Colorless
Odor	odorless	odorless	odorless	odorless
Appearance	clear	clear	clear	clear
pH (s.u.)	5.85	5.76	5.74	5.69
Conductivity (mS/cm)	—	—	—	—
(umhos/cm)	635	665	678	678
Turbidity (NTU)	—	—	—	3.9
Temperature (°C)	16.7	16.7	16.9	17.0
Dissolved Oxygen (mg/L)	—	—	—	—
Salinity (%) Time	17:20	17:26	17:32	17:38
Sampling Method	3 well volume			
Remarks	PII=0.02 BH			

Constituents Sampled	Container Description	Number	Preservative
<u>see COC</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Sampling Personnel Scherling / P. Czarski

Gal./Ft.	Well Casing Volumes			
	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

- bmp below measuring point
- °C Degrees Celsius
- ft feet
- gpm Gallons per minute
- mg/L Milligrams per liter
- ml milliliter
- mS/cm Milisiemens per centimeter
- msl mean sea-level
- N/A Not Applicable
- NR Not Recorded
- NTU Nephelometric Turbidity Units
- PVC Polyvinyl chloride
- s.u. Standard units
- umhos/cm Micromhos per centimeter
- VOC Volatile Organic Compounds

ARCADIS  
Water Sampling Log

Project NGC-OU-3 Project No. NY001348.0806.00002 Page 1 of 1  
 Site Location Bethpage Community Park Date 06/13/06  
 Site/Well No. PZ-1 (F-SPE) Replicate No. PZ-100  
 Weather Sunny, 80°F Sampling Time: Begin 12:00 End 13:30

Evacuation Data		Field Parameters			
Measuring Point	<u>Top of Casing</u>	Color	<u>Brown</u>		
Sounded Well Depth (ft bmp)	<u>43 ft</u>	Odor	<u>None</u>		
Depth to Water (ft bmp)	<u>28.10 ft</u>	Appearance	<u>Turbid, silty</u>		
Depth to Packer (ft bmp)	<u>NA</u>	2 <sup>nd</sup> Bailor	<u>NA</u>	<u>NA</u>	<u>NA</u>
Water Column in Well (ft)	<u>14.9 ft</u>	pH (s.u.)	<u>6.14</u>		
Casing Diameter	<u>2"</u>	Conductivity (mS/cm)	<u>49.2</u>		
Gallons in Well	<u>NA</u>	Conductivity (µmhos/cm)			
Gallons Pumped/Bailed	<u>1 Bailor Volume = (.25 gal)</u>	Temperature (°C)	<u>14.6</u>		
Prior to Sampling		DO (mg/L)	<u>NA</u>		
Sample Pump Intake		Turbidity (NTU)	<u>&gt;200</u>		
Setting (ft bmp)	<u>NA</u>	Time	<u>12:40</u>		
Packer Pressure (psi)	<u>NA</u>	DTW (ft bmp)	<u>28.45*</u>		<u>28.30**</u>
Pumping Rate (gpm)	<u>NA</u>				
Evacuation Method	<u>Bailor</u>				
Sampling Method	<u>Bailor</u>				
Purge Time	Begin <u>NA</u> End <u>NA</u>				

Remarks: Sampled per instructions for Piezometer in OU-3 work plan. No product found initially or after 1<sup>st</sup> bailor full was removed (measured from 28.1 ft below top to 42.0 ft). Field Blank taken off bailor for all field blank Parameters. See COC for sample parameters.  
 \* After first bailor full removed from PZ-1  
 \*\* Measured after last bailor taken for sample parameters  
 Constituents Sampled: See COC Sampling Personnel: John Corral / Jen Cherlin

Well Casing Volumes				
Gal./Ft.	1 <sup>1/4"</sup> = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point    mS/cm    Millisiemens per centimeter    VOC    Volatile Organic Compounds  
 °C    Degrees Celsius    s.u.    Standard units    umhos/cm    Micromhos per centimeter  
 ft    feet    NTU    Nephelometric Turbidity Units  
 gpm    Gallons per minute    N/A    Not Applicable  
 mg/L    Milligrams per liter    COC    Chain of Custody

Note: To insure a blind replicate  
 Duplicate sample for PZ-1 was labeled PZ-100 instead of REP061306.

# Water Sampling Log

Project NGC 003 Project No. NY 001348.0800.2 Page 1 of 1  
 Site Location Bohnpage NY Date 12/11/08  
 Site/Well No. F8-P2 Replicate No. N/A Code No. /  
 Weather P/c ≈ 50° Sampling Time: Begin End /

**Evacuation Data**

Measuring Point TOO  
 MP Elevation (ft) \_\_\_\_\_  
 Land Surface Elevation (ft) \_\_\_\_\_  
 Sounded Well Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) \_\_\_\_\_  
 Water-Level Elevation (ft) \_\_\_\_\_  
 Water Column in Well (ft) \_\_\_\_\_  
 Casing Diameter/Type \_\_\_\_\_  
 Gallons in Well \_\_\_\_\_  
 Gallons Pumped/Bailed Prior to Sampling \_\_\_\_\_  
 Sample Pump Intake Setting (ft bmp) \_\_\_\_\_  
 Purge Time begin \_\_\_\_\_ end \_\_\_\_\_  
 Pumping Rate (gpm) \_\_\_\_\_  
 Evacuation Method Baker

**Field Parameters**

Color Lt Brown  
 Odor SLIGHT  
 Appearance Turbid  
 pH (s.u.) 7.26  
 Conductivity ~~(mS/cm)~~ \_\_\_\_\_  
 (µmhos/cm) 73.5  
 Turbidity (NTU) /  
 Temperature (°C) 16.8  
 Dissolved Oxygen (mg/L) /  
 Salinity (%) /  
 Sampling Method Boiler  
 Remarks PPP: 0.0

Constituents Sampled	Container Description	Number	Preservative
<u>See COL</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Sampling Personnel D. Zuck / O. Williams

**Well Casing Volumes**

Gal./Ft.	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

- below measuring point
- Degrees Celsius
- ft
- gallons per minute
- gallons per liter
- ml
- mS/cm
- msl
- N/A
- NR
- milliliter
- Milisiemens per centimeter
- mean sea-level
- Not Applicable
- Not Recorded
- NTU
- PVC
- s.u.
- umhos/cm
- VOC
- Nephelometric Turbidity Units
- Polyvinyl chloride
- Standard units
- Micromhos per centimeter
- Volatile Organic Compounds

**Water Sampling Log**

Project NORTHROP - blumman Project No. NY001464.08.07.00003  
 Site Location Bethpage, NY Date 7-12-07  
 Well No. F8-P2 Replicate No. NA Weather 80°F clear  
 Sampling Personnel G. Williams Sampling Time: Begin        End       

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 42.35  
 Depth to Water (ft bmp) 33.04  
 Depth to Packer (ft bmp) 9.31  
 Water Column in Well (ft) 2  
 Casing Diameter 2" (0.16)  
 Gallons in Well 1.38  
 Gallons Purged 4  
 Prior to Sampling H  
 Pump Intake         
 Setting (ft bmp)         
 Packer Pressure (psi)         
 Pumping Rate (gpm)         
 Evacuation Method Bailer  
 Sampling Method         
 Purge Time Begin        End       

**Field Parameters**

Color         
 Odor         
 Appearance         

	1	1V	2V	3V
pH (s.u.)	<u>6.73</u>	<u>6.87</u>	<u>      </u>	<u>      </u>
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	<u>569</u>	<u>544</u>	<u>      </u>	<u>      </u>
Temperature (°C)	<u>17.9</u>	<u>17.8</u>	<u>      </u>	<u>      </u>
DO (mg/L)	<u>6.80</u>	<u>7.64</u>	<u>      </u>	<u>      </u>
ORP (mV)	<u>56</u>	<u>135</u>	<u>      </u>	<u>      </u>
Turbidity (NTU)	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
Time	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
DTW (ft bmp)	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>

**Remarks:**

not sampled  
well dry prior to 2V

Parameter	Container	No.	Preservative
<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>

PID Reading       

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2- <sup>1/2</sup> " = 0.26	3- <sup>1/2</sup> " = 0.50	6" = 1.47

**Water Sampling Log**

Project N-Grumman 003 Project No. NY001464,0807.00003  
 Site Location Bethpage, NY Date 7/13/07  
 Well No. F-8 P2 Replicate No. NA Weather clear, 80°F

Sampling Personnel Zack / Prozowski Sampling Time: Begin 10:22 AM End 10:40 AM

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 42.75  
 Depth to Water (ft bmp) 34.50  
 Depth to Packer (ft bmp)     
 Water Column in Well (ft)     
 Casing Diameter 2"  
 Gallons in Well     
 Gallons Purged     
     Prior to Sampling     
 Pump Intake     
     Setting (ft bmp)     
 Packer Pressure (psi)     
 Pumping Rate (gpm)     
 Evacuation Method     
 Sampling Method Bailer  
 Purge Time Begin    End   

**Field Parameters**

Color     
 Odor     
 Appearance     

	I	1V	2V	3V
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)				
Time				
DTW (ft bmp)				

Remarks:

Grab sample

Parameter	Container	No.	Preservative
<u>See LOC</u>			

PID Reading PID not working well

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.18	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

# Water Sampling Log

Project NGC 043 Project No. NY001348.0806.2 Page 1 of 1  
 Site Location Bohapse NY Date 12/11/08  
 Site/Well No. H3-PE Replicate No. N/A Code No. /  
 Weather P/C 2500 Sampling Time: Begin / End /

<b>Evacuation Data</b>		<b>Field Parameters</b>	
Measuring Point	<u>TOC</u>	Color	<u>LT BROWN</u>
MP Elevation (ft)	<u>—</u>	Odor	<u>Slight</u>
Land Surface Elevation (ft)	<u>—</u>	Appearance	<u>turbid</u>
Sounded Well Depth (ft bmp)	<u>50.00</u>	pH (s.u.)	<u>7.10</u>
Depth to Water (ft bmp)	<u>48.17</u>	Conductivity (mS/cm)	<u>—</u>
Water-Level Elevation (ft)	<u>41</u>	(µmhos/cm)	<u>854</u>
Water Column in Well (ft)	<u>1.83</u>	Turbidity (NTU)	<u>—</u>
Casing Diameter/Type	<u>8.16</u>	Temperature (°C)	<u>15.8</u>
Gallons in Well	<u>1098 (2928)</u>	Dissolved Oxygen (mg/L)	<u>—</u>
Gallons Pumped/Bailed Prior to Sampling	<u>.1830 x3</u> <u>.2928 (.88)</u>	Salinity (%)	<u>—</u>
Sample Pump Intake Setting (ft bmp)	<u>/</u>	Sampling Method	<u>Boiler</u>
Purge Time	begin <u>—</u> end <u>—</u>	Remarks	<u>PEO 3.9</u>
Pumping Rate (gpm)	<u>—</u>		
Evacuation Method	<u>Boiler</u>		

Constituents Sampled	Container Description	Number	Preservative
<u>See TOC</u>			

Sampling Personnel D. Zack / G. Williams

Well Casing Volumes				
Gal./Ft.	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds



ARCADIS

Low-Flow Groundwater Sampling Log

Project Number: M001341810806 Task: 02002 Well ID: H-3 PZ  
 Date: 1/11/07 Sampled By: GW/JAC  
 Sampling Time: \_\_\_\_\_ Recorded By: JAC  
 Weather: P. cloudy / 40°F Coded Replicate No.: \_\_\_\_\_

Instrument Identification  
 Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information  
 Casing Material: PVC Purge Method: Low flow / Rediflo  
 Casing Diameter: 2" Screen Interval (ft bmp): Top 38 Bottom 48  
 Sounded Depth (ft bmp): 250' Pump Intake Depth (ft bmp): Inch off bottom  
 Depth to Water (ft bmp): 48.68 Purge time Start: \_\_\_\_\_ Finish: \_\_\_\_\_

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. <u>µS/cm</u> (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Sulfide Comments
1st Pumping				11.2	7.06	625	-56	1.69	71000	7	OVER RANGE
			SAMPLED			METALS, PERCHLORATE, TDS		160.2			
2nd Pumping											

Sample Condition Color: \_\_\_\_\_ Odor: \_\_\_\_\_ Appearance: \_\_\_\_\_  
 Sample Collection Parameter: see col Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading: 0.011M  
 Comments: PUMPED AND TOOK INSTANT PARAMETERS, STARTED FILLING BOTTLES SHUT OFF AFTER ~ 2.5 LITERS SAMPLED. LET RECOVER ~ 10 MIN TOOK SULFIDE READINGS DURING RECOVER

**ARCADIS**  
**Water Sampling Log**

Project NG-C-043 Project No. NY001464.0807.00164 Page 1 of 1  
 Site Location ROTHUSE, NY Date 2/14/07  
 Site/Well No. PZ-H-3 Replicate No. N/A  
 Weather Rain/sleet 29° Sampling Time: Begin 2:20 End ✓

**Evacuation Data**

Measuring Point TOC  
 Sounded Well Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) \_\_\_\_\_  
 Depth to Packer (ft bmp) \_\_\_\_\_  
 Water Column in Well (ft) \_\_\_\_\_  
 Casing Diameter \_\_\_\_\_  
 Gallons in Well \_\_\_\_\_  
 Gallons Pumped/Bailed \_\_\_\_\_  
 Prior to Sampling \_\_\_\_\_  
 Sample Pump Intake \_\_\_\_\_  
 Setting (ft bmp) \_\_\_\_\_  
 Packer Pressure (psi) \_\_\_\_\_  
 Pumping Rate (gpm) \_\_\_\_\_  
 Evacuation Method \_\_\_\_\_  
 Sampling Method \_\_\_\_\_  
 Purge Time Begin \_\_\_\_\_ End \_\_\_\_\_

**Field Parameters**

Color Lt Blue  
 Odor None  
 Appearance turbid

	1	1V	2V	3V
pH (s.u.)	6.55			
Conductivity (mS/cm)	—			
(µmhos/cm)	523			
Temperature (°C)	9.4			
DO (mg/L)	.63			
Turbidity (NTU)	24.5			
Time	2:20			
DTW (ft bmp)				

Remarks: Grab sample

Constituents Sampled: See COC Sampling Personnel: GV/DZ

**Well Casing Volumes**

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-3/4" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp below measuring point  
 °C Degrees Celsius  
 ft feet  
 gpm Gallons per minute  
 mg/L Milligrams per liter

mS/cm Milisiemens per centimeter  
 s.u. Standard units  
 NTU Nephelometric Turbidity Units  
 N/A Not Applicable  
 COC Chain of Custody

VOC Volatile Organic Compounds  
 µmhos/cm Micromhos per centimeter

### Water Sampling Log

 Project NORTHROP FROM MAW Project No. NY 001464.0802.00003  
 Site Location Bethpage, NY Date 7-12-07  
 Well No. H-3 P2 Replicate No. N/A Weather 80° F clear

 Sampling Personnel Williams Sampling Time: Begin      End     

Purge Data	Field Parameters
Measuring Point (describe) <u>TUC</u>	Color <u>colorless</u> <u>None</u>
Sounded Well Depth (ft bmp) <u>53.10</u>	Odor <u>Slight</u> <u>None</u>
Depth to Water (ft bmp) <u>50.99</u>	Appearance <u>Clear</u> <u>Turbid</u>
Depth to Packer (ft bmp) <u>    </u>	
Water Column in Well (ft) <u>2.11</u>	I                  1V                  2V                  3V
Casing Diameter <u>2" (0.16)</u>	pH (s.u.) <u>5.72</u> <u>6.10</u>
Gallons in Well <u>0.336</u>	Conductivity
Gallons Purged <u>X3</u>	(mS/cm) or <u>    </u> <u>    </u>
Prior to Sampling <u>1 GAL</u>	(µmhos/cm) <u>186</u> <u>629</u>
Pump Intake <u>    </u>	Temperature (°C) <u>18.8</u> <u>16.7</u>
Setting (ft bmp) <u>    </u>	
Packer Pressure (psi) <u>    </u>	DO (mg/L) <u>2.00</u> <u>1.73</u>
Pumping Rate (gpm) <u>    </u>	ORP (mV) <u>-4</u> <u>-12</u>
Evacuation Method <u>Barter</u>	Turbidity (NTU) <u>24.8</u> <u>7500</u>
Sampling Method <u>    </u>	Time <u>15:15</u> <u>15:17</u>
Purge Time Begin <u>15:15</u> End <u>    </u>	DTW (ft bmp) <u>    </u> <u>    </u>

 Remarks: Not sampled.  
Well dry prior to 2V

Parameter	Container	No.	Preservative

 PID Reading     

Well Casing Volumes					
Gal./Ft.	1 <sup>1/4"</sup> = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	
	1 <sup>1/2"</sup> = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47	

**Water Sampling Log**

Project N-Grammer 003 Project No. NY 001464.0807.0003  
 Site Location Bethpage, NY Date 7/13/07  
 Well No. H-3-PZ Replicate No. NA Weather clear, 80°F  
 Sampling Personnel DE/PP Sampling Time: Begin \_\_\_\_\_ End \_\_\_\_\_  
Rock

Purge Data		Field Parameters				
Measuring Point (describe)	<u>TOC</u>	Color				
Sounded Well Depth (ft bmp)	<u><del>54.50</del> 53.60</u>	Odor				
Depth to Water (ft bmp)	<u>52.45</u>	Appearance				
Depth to Packer (ft bmp)	<u>/</u>					
Water Column in Well (ft)			I	1V	2V	3V
Casing Diameter	<u>211</u>	pH (s.u.)				
Gallons in Well		Conductivity				
Gallons Purged		(mS/cm) or				
Prior to Sampling		(µmhos/cm) <sup>1)</sup>				
Pump Intake		Temperature (°C)				
Setting (ft bmp)	<u>/</u>	DO (mg/L)				
Packer Pressure (psi)	<u>/</u>	ORP (mV)				
Pumping Rate (gpm)	<u>/</u>	Turbidity (NTU)				
Evacuation Method		Time				
Sampling Method	<u>Bailer</u>	DTW (ft bmp)				
Purge Time	Begin _____ End _____					

Remarks: Grab sample

Parameter	Container	No.	Preservative
<u>See COC</u>			

PID Reading PID not working well

Gal./Ft.	Well Casing Volumes			
	1 <sup>1/4</sup> " = 0.06	<u>2" = 0.16</u>	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

**Water Sampling Log**

Project N-Grimmon 003 Project No. NY 001464.080200003  
 Site Location Bathpage, NY Date 7/16/07  
 Well No. H-3 R2 Replicate No. NA Weather 80's F

Sampling Personnel Prezorski Sampling Time: Begin 1437 End 2:44pm (1440)

Purge Data		Field Parameters			
Measuring Point (describe)	_____	Color	_____		
Sounded Well Depth (ft bmp)	_____	Odor	_____		
Depth to Water (ft bmp)	_____	Appearance	_____		
Depth to Packer (ft bmp)	_____				
Water Column in Well (ft)	_____				
Casing Diameter	_____	pH (s.u.)			
Gallons in Well	_____	Conductivity			
Gallons Purged	_____	(mS/cm) or			
Prior to Sampling	_____	(umhos/cm) <sup>1)</sup>			
Pump Intake	_____	Temperature (°C)			
Setting (ft bmp)	_____	DO (mg/L)			
Packer Pressure (psi)	_____	ORP (mV)			
Pumping Rate (gpm)	_____	Turbidity (NTU)			
Evacuation Method	_____	Time			
Sampling Method	<u>Bailer</u>	DTW (ft bmp)			
Purge Time	Begin _____ End _____				

Remarks: Crab sample  
Bailer 1/4 full

Parameter	Container	No.	Preservative
<u>Perchlorate</u>	<u>250 ml plastic</u>	<u>/</u>	<u>VP</u>
_____	_____	_____	_____
_____	_____	_____	_____

PID Reading \_\_\_\_\_

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type

**Water Sampling Log**

Project N- Grumman OVB Project No. NY001464.0907.00003  
 Site Location Bethpage, NY Date 7/24/07  
 Well No. H-3 P2 Replicate No. NA Weather Fair, 90°F

Sampling Personnel Williams Prezorski Sampling Time: Begin 11:57pm End 12:10pm

Purge Data		Field Parameters				
Measuring Point (describe)	<u>Top</u>	Color				
Sounded Well Depth (ft bmp)		Odor				
Depth to Water (ft bmp)	<u>50.30</u>	Appearance				
Depth to Packer (ft bmp)						
Water Column in Well (ft)			I	1V	2V	3V
Casing Diameter		pH (s.u.)				
Gallons in Well		Conductivity				
Gallons Purged		(mS/cm) or				
Prior to Sampling		(µmhos/cm) <sup>1)</sup>				
Pump Intake		Temperature (°C)				
Setting (ft bmp)		DO (mg/L)				
Packer Pressure (psi)		ORP (mV)				
Pumping Rate (gpm)		Turbidity (NTU)				
Evacuation Method		Time				
Sampling Method		DTW (ft bmp)				
Purge Time	Begin _____ End _____					

Remarks: Grab sample. See parameters sampled below. Then well dry. No dissolved samples sent to lab.

Parameter	Container	No.	Preservative
<u>SVOCs</u>	<u>1 Liter Amber glass</u>	<u>1</u>	<u>unp</u>
<u>Total Metals</u>	<u>500ml plastic</u>	<u>1</u>	<u>HNO3</u>
<u>Cr + G</u>	<u>125 ml plastic</u>	<u>1</u>	<u>unp</u>
<u>Pesticides, PCBs</u>	<u>1 Liter Amber glass</u>	<u>1</u>	<u>unp</u>
PID Reading			

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type

**ARCADIS**  
**Water Sampling Log**

Project NORTHROP-GRIMMAD Project No. M001348.0806.08002 Page 1 of 1  
 Site Location ROSTHAGE PARK Date 12/11/06  
 Site/Well No. H-7 PZ Replicate No. N/A  
 Weather P/C ~ 50° Sampling Time: Begin      End     

**Evacuation Data**

Measuring Point TOC  
 Sounded Well Depth (ft bmp) \_\_\_\_\_  
 Depth to Water (ft bmp) \_\_\_\_\_  
 Depth to Packer (ft bmp) \_\_\_\_\_  
 Water Column in Well (ft) \_\_\_\_\_  
 Casing Diameter \_\_\_\_\_  
 Gallons in Well \_\_\_\_\_  
 Gallons Pumped/Bailed \_\_\_\_\_  
 Prior to Sampling \_\_\_\_\_  
 Sample Pump Intake \_\_\_\_\_  
 Setting (ft bmp) \_\_\_\_\_  
 Packer Pressure (psi) \_\_\_\_\_  
 Pumping Rate (gpm) \_\_\_\_\_  
 Evacuation Method \_\_\_\_\_  
 Sampling Method Boiler  
 Purge Time Begin      End     

**Field Parameters**

Color Brown  
 Odor None  
 Appearance VERY TURBID

	1	1V	2V	3V
pH (s.u.)	/			6.95
Conductivity (mS/cm)				
(umhos/cm)				108.8
Temperature (°C)				14.8
DO (mg/L)				/
Turbidity (NTU)				/
Time	/			
DTW (ft bmp)	/			

Remarks: PULLED 2.5 GALLONS BEFORE SAMPLE

Constituents Sampled: See COC Sampling Personnel: GW

**Well Casing Volumes**

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	umhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miliigrams per liter	COC	Chain of Custody		

ARCADIS

Low-Flow Groundwater Sampling Log

Project Number: NY001348.0806  
 Date: 11/10/07  
 Sampling Time: P. Cloudy 1400  
 Weather: P. Cloudy 1400

Task: 00002  
 Well ID: H-7 RZ  
 Sampled By: GW/SAC/PP  
 Recorded By: SAC  
 Coded Replicate No.: \_\_\_\_\_

Instrument Identification  
 Water Quality Meter(s): \_\_\_\_\_ Serial #: \_\_\_\_\_

Purging Information  
 Purge Method: Low Flow / Dedi F10  
 Casing Material: PVC  
 Casing Diameter: 2"  
 Screen Interval (ft bmp): Top 39 Bottom 49  
 Sounded Depth (ft bmp): 45.87  
 Pump Intake Depth (ft bmp): Ind off bottom  
 Depth to Water (ft bmp): 45.87  
 Purge time Start: 15:40 Finish: \_\_\_\_\_

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (mL/min)	Volume Purged	Temp (°C)	pH (SI Units)	Spec. Cond. (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Comments
15:40				11.3	7.13	321	18	1.51		45.87	
14:45				10.7	6.30	275	55	1.33			
15:50				9.4	6.80	267	49	1.22			
15:55											
16:00											

Sample Condition Color: \_\_\_\_\_ Odor: \_\_\_\_\_ Appearance: \_\_\_\_\_  
 Sample Collection Parameter: sepcal Container: \_\_\_\_\_ No. \_\_\_\_\_ Preservative: \_\_\_\_\_

PID Reading 0.0 ppm

Comments \_\_\_\_\_

S2 = over range



**ARCADIS**  
**Water Sampling Log**

Project NGC-043 Project No. NV001464.0807.0006-W Page 1 of 1  
 Site Location Botepose NY. Date 2/14/07  
 Site/Well No. BZ-H-7 Replicate No. N/A  
 Weather Lt Rain 30° Sampling Time: Begin 2:30 End     

**Evacuation Data**

Measuring Point TOC

Sounded Well Depth (ft bmp) \_\_\_\_\_

Depth to Water (ft bmp) \_\_\_\_\_

Depth to Packer (ft bmp) \_\_\_\_\_

Water Column in Well (ft) \_\_\_\_\_

Casing Diameter \_\_\_\_\_

Gallons in Well \_\_\_\_\_

Gallons Pumped/Bailed \_\_\_\_\_

    Prior to Sampling \_\_\_\_\_

Sample Pump Intake \_\_\_\_\_

    Setting (ft bmp) \_\_\_\_\_

Packer Pressure (psi) \_\_\_\_\_

Pumping Rate (gpm) \_\_\_\_\_

Evacuation Method \_\_\_\_\_

Sampling Method \_\_\_\_\_

Purge Time Begin \_\_\_\_\_ End \_\_\_\_\_

**Field Parameters**

Color Brown

Odor Sone

Appearance turbid

	1	1V	2V	3V
pH (s.u.)	6.40			
Conductivity (mS/cm)				
(µmhos/cm)	273			
Temperature (°C)	9.9			
DO (mg/L)	0.78			
Turbidity (NTU)	71000			
Time	2:30			
DTW (ft bmp)				

Remarks: Grab Sample

Constituents Sampled: See COC Sampling Personnel: GW/DZ

**Well Casing Volumes**

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	µmhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		

### Water Sampling Log

Project N-Grammer 007 Project No. NY001464.0807.00003  
 Site Location Bethpage, NY Date 7-12-07  
 Well No. H-7 P2 Replicate No. NA Weather 80°F clear  
 Sampling Personnel Przezorski Sampling Time: Begin            End           

Purge Data	Field Parameters
Measuring Point (describe) <u>TOC</u>	Color <u>colorless</u> <u>Brown</u> <u>Brown</u> <u>Brown</u>
Sounded Well Depth (ft bmp) <u>51</u>	Odor <u>None</u> <u>None</u> <u>None</u> <u>Moderate</u>
Depth to Water (ft bmp) <u>46.60</u>	Appearance <u>clear</u> <u>turbid</u> <u>turbid</u> <u>turbid</u>
Depth to Packer (ft bmp) <u>          </u>	
Water Column in Well (ft) <u>4.4</u>	1                  1V                  2V                  3V
Casing Diameter <u>2" (0.10)</u>	pH (s.u.) <u>5.97</u> <u>6.28</u> <u>6.22</u> <u>6.24</u>
Gallons in Well <u>.7</u>	Conductivity (mS/cm) or (umhos/cm) <sup>1)</sup> <u>          </u> <u>          </u> <u>          </u> <u>          </u>
Gallons Purged Prior to Sampling <u>2.1</u>	Temperature (°C) <u>20.9</u> <u>18.0</u> <u>16.7</u> <u>16.3</u>
Pump Intake Setting (ft bmp) <u>          </u>	DO (mg/L) <u>2.42</u> <u>2.65</u> <u>2.91</u> <u>2.97</u>
Packer Pressure (psi) <u>          </u>	ORP (mV) <u>55</u> <u>43</u> <u>33</u> <u>32</u>
Pumping Rate (gpm) <u>          </u>	Turbidity (NTU) <u>49.5</u> <u>7500</u> <u>7500</u> <u>7500</u>
Evacuation Method <u>Bailer</u>	Time <u>1634</u> <u>1641</u> <u>1645</u> <u>1648</u>
Sampling Method <u>3 well volume</u>	DTW (ft bmp) <u>          </u> <u>          </u> <u>          </u> <u>          </u>
Purge Time Begin <u>1632</u> End <u>1648</u>	

Remarks: Full Bailer in well  
not sampled. Well dry after filling voc vials

Parameter	Container	No.	Preservative
<u>See coc</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

PID Reading High Humidity

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2- <sup>1/2</sup> " = 0.26	3- <sup>1/2</sup> " = 0.50	6" = 1.47

**Water Sampling Log**

Project N-Grammer 03 Project No. NY0014640807100003  
 Site Location Bethpage, NY Date 7/13/07  
 Well No. H-7 P2 Replicate No. NA Weather clear, 80°F  
 Sampling Personnel Zuck Sampling Time: Begin \_\_\_\_\_ End \_\_\_\_\_

**Purge Data**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp) 52.10  
 Depth to Water (ft bmp) 46.73  
 Depth to Packer (ft bmp) \_\_\_\_\_  
 Water Column in Well (ft) \_\_\_\_\_  
 Casing Diameter 2"  
 Gallons in Well \_\_\_\_\_  
 Gallons Purged \_\_\_\_\_  
 Prior to Sampling \_\_\_\_\_  
 Pump Intake \_\_\_\_\_  
 Setting (ft bmp) \_\_\_\_\_  
 Packer Pressure (psi) \_\_\_\_\_  
 Pumping Rate (gpm) \_\_\_\_\_  
 Evacuation Method \_\_\_\_\_  
 Sampling Method Bailer  
 Purge Time Begin \_\_\_\_\_ End \_\_\_\_\_

**Field Parameters**

Color \_\_\_\_\_  
 Odor \_\_\_\_\_  
 Appearance \_\_\_\_\_  

	I	1V	2V	3V
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)				
Time				
DTW (ft bmp)				

**Remarks:**

Grab sample

Parameter	Container	No.	Preservative
<u>See TOC</u>			

PID Reading PID not working well

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type

# Water Sampling Log

Project NG-C 003 Project No. NY001344.0806.2 Page 1 of 1  
 Site Location Bethpage NY Date 12/11/06  
 Site/Well No. PZ-T 4 Replicate No. N/A Code No. /  
 Weather P/C ≈ 50° Sampling Time: Begin 11:30 End 11:40

**Evacuation Data**

Measuring Point TOC  
 MP Elevation (ft) /  
 Land Surface Elevation (ft) /  
 Sounded Well Depth (ft bmp) 50.00  
 Depth to Water (ft bmp) 46.16  
 Water-Level Elevation (ft) /  
 Water Column in Well (ft) 13.84  
 Casing Diameter/Type 2"  
 Gallons in Well \_\_\_\_\_  
 Gallons Pumped/Bailed Prior to Sampling 273v  
 Sample Pump Intake Setting (ft bmp) Bailed  
 Purge Time begin / end /  
 Pumping Rate (gpm) /  
 Evacuation Method Bailer

**Field Parameters**

Color LT Brown  
 Odor trace  
 Appearance turbid  
 pH (s.u.) 6.43  
 Conductivity (mS/cm) /  
 (µmhos/cm) 755  
 Turbidity (NTU) 7500  
 Temperature (°C) 12.8  
 Dissolved Oxygen (mg/L) /  
 Salinity (%) /  
 Sampling Method Bailer  
 Remarks PID: 9.4 ppm

Constituents Sampled	Container Description	Number	Preservative
<u>Sealoc</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Sampling Personnel D. Zude / G. Williams

**Well Casing Volumes**

Gal./Ft.	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

- bmp below measuring point
- °C Degrees Celsius
- ft feet
- gpm Gallons per minute
- mg/L Milligrams per liter
- ml milliliter
- mS/cm Milisiemens per centimeter
- msl mean sea-level
- N/A Not Applicable
- NR Not Recorded
- NTU Nephelometric Turbidity Units
- PVC Polyvinyl chloride
- s.u. Standard units
- µmhos/cm Micromhos per centimeter
- VOC Volatile Organic Compounds

# ARCADIS Water Sampling Log

Project NGC-BCP Project No. NY001348.0806.0002 Page 1 of 1  
 Site Location Bethpage, NY Date 1/10/07  
 Site/Well No. F-4P.Z Replicate No.         
 Weather        Sampling Time: Begin        End       

<b>Evacuation Data</b>		<b>Field Parameters</b>	
Measuring Point	<u>TOC</u>	Color	<u>      </u>
Sounded Well Depth (ft bmp)	<u>250'</u>	Odor	<u>      </u>
Depth to Water (ft bmp)	<u>46.24</u>	Appearance	<u>      </u>
Depth to Packer (ft bmp)	<u>      </u>		
Water Column in Well (ft)	<u>3.76</u>		
Casing Diameter	<u>2"</u>	pH (s.u.)	<u>6.27</u>
Gallons in Well	<u>(3.76 x 0.16) 0.6G</u>	Conductivity	
Gallons Pumped/Bailed		(mS/cm)	
Prior to Sampling	<u>(0.6 x 3) 1.8G</u>	(umhos/cm)	<u>637</u>
Sample Pump Intake	<u>      </u>	Temperature (°C)	<u>11.7</u>
Setting (ft bmp)	<u>      </u>		
Packer Pressure (psi)	<u>      </u>	DO (mg/L)	<u>      </u>
Pumping Rate (gpm)	<u>      </u>	Turbidity (NTU)	<u>      </u>
Evacuation Method	<u>PERFLO</u>	Time	<u>      </u>
Sampling Method	<u>      </u>	DTW (ft bmp)	<u>      </u>
Purge Time	Begin <u>      </u> End <u>      </u>		

	1	1V	2V	3V
pH (s.u.)	6.27			
Conductivity (umhos/cm)	637			
Temperature (°C)	11.7			
DO (mg/L)				
Turbidity (NTU)				
Time				
DTW (ft bmp)				

SZ = .582

Remarks: Sampling continued on low-flow log.  
PUMPED ABOUT 1 GALLON OUT PRESSURE  
LET PRESSURE AND PUMPED ABOUT RAW FOR 30 SECONDS

Constituents Sampled: See COC Sampling Personnel: GW/JAR

Gal./Ft.	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	umhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		

# ARCADIS Water Sampling Log

Project NGC-043 Project No. NY001464.0807.0016W Page 1 of 1  
 Site Location ROTHUSE, NY Date 2/14/07  
 Site/Well No. PZ-I-4 Replicate No. N/A  
 Weather Rain/sleet 29° Sampling Time: Begin 2:00 End —

**Evacuation Data**

Measuring Point TOC

Sounded Well Depth (ft bmp) \_\_\_\_\_

Depth to Water (ft bmp) \_\_\_\_\_

Depth to Packer (ft bmp) \_\_\_\_\_

Water Column in Well (ft) \_\_\_\_\_

Casing Diameter \_\_\_\_\_

Gallons in Well \_\_\_\_\_

Gallons Pumped/Bailed \_\_\_\_\_

Prior to Sampling \_\_\_\_\_

Sample Pump Intake \_\_\_\_\_

Setting (ft bmp) \_\_\_\_\_

Packer Pressure (psi) \_\_\_\_\_

Pumping Rate (gpm) \_\_\_\_\_

Evacuation Method \_\_\_\_\_

Sampling Method \_\_\_\_\_

Purge Time Begin 1:58 End 2:00

**Field Parameters**

Color lt Brown

Odor trace -> some

Appearance turbid

	1	2V	2V	3V
pH (s.u.)	<u>6.44</u>			
Conductivity (mS/cm)	<u>—</u>			
(µmhos/cm)	<u>460</u>			
Temperature (°C)	<u>11.5</u>			
DO (mg/L)	<u>.83</u>			
Turbidity (NTU)				
Time	<u>2:00</u>			
DTW (ft bmp)				

Remarks: grab sample

Constituents Sampled: See COC Sampling Personnel: G. Williams

**Well Casing Volumes**

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	below measuring point	mS/cm	Milisiemens per centimeter	VOC	Volatile Organic Compounds
°C	Degrees Celsius	s.u.	Standard units	µmhos/cm	Micromhos per centimeter
ft	feet	NTU	Nephelometric Turbidity Units		
gpm	Gallons per minute	N/A	Not Applicable		
mg/L	Miligrams per liter	COC	Chain of Custody		

**Water Sampling Log**

Project N-Grammer 003 Project No. NY001464,0802,0003  
 Site Location Bethpage, NY Date 7-12-07  
 Well No. 08 #4 P2 Replicate No. NA Weather 80°F clear  
 Sampling Personnel Williams Sampling Time: Begin            End           

**Purge Data**

**Field Parameters**

Measuring Point (describe) TOC  
 Sounded Well Depth (ft bmp)             
 Depth to Water (ft bmp) 46.79  
 Depth to Packer (ft bmp) 46.60  
 Water Column in Well (ft)             
 Casing Diameter 1.9  
 Gallons in Well             
 Gallons Purged             
 Prior to Sampling             
 Pump Intake             
 Setting (ft bmp)             
 Packer Pressure (psi)             
 Pumping Rate (gpm)             
 Evacuation Method             
 Sampling Method             
 Purge Time Begin            End           

Color	<u>          </u>			
Odor	<u>          </u>			
Appearance	<u>          </u>			
pH (s.u.)	<u>1</u>	<u>1V</u>	<u>2V</u>	<u>3V</u>
Conductivity (mS/cm) or (µmhos/cm) <sup>1)</sup>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Temperature (°C)	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
DO (mg/L)	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
ORP (mV)	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Turbidity (NTU)	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Time	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
DTW (ft bmp)	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

**Remarks:**

I-4 P2  
not sampled  
product in well

Parameter	Container	No.	Preservative
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

**PID Reading**

Well Casing Volumes				
Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

**Water Sampling Log**

Project Nr Grumman 003 Project No. NY001464.0807.0003  
 Site Location Bethpage, NY Date 7/24/07  
 Well No. I-4 P2 Replicate No. NA Weather fair 80°F

Sampling Personnel Williams Sampling Time: Begin 12:13 pm End \_\_\_\_\_

Purge Data		Field Parameters				
Measuring Point (describe)	_____	Color	_____			
Sounded Well Depth (ft bmp)	_____	Odor	_____			
Depth to Water (ft bmp)	_____	Appearance	_____			
Depth to Packer (ft bmp)	_____					
Water Column in Well (ft)	_____					
Casing Diameter	_____	pH (s.u.)	I	1V	2V	3V
Gallons in Well	_____	Conductivity				
Gallons Purged	_____	(mS/cm) or				
Prior to Sampling	_____	(µmhos/cm) <sup>1)</sup>				
Pump Intake	_____	Temperature (°C)				
Setting (ft bmp)	_____	DO (mg/L)				
Packer Pressure (psi)	_____	ORP (mV)				
Pumping Rate (gpm)	_____	Turbidity (NTU)				
Evacuation Method	_____	Time				
Sampling Method	_____	DTW (ft bmp)				
Purge Time	Begin _____ End _____					

Remarks: Grab sample of product off bailer

Parameter	Container	No.	Preservative
<u>see COC</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

PID Reading \_\_\_\_\_

Well Casing Volumes

Gal./Ft.	1 <sup>1/4</sup> " = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 <sup>1/2</sup> " = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type



**Figure F-4**  
**Piezometer I-4-PZ**  
**Perched Water Elevation vs. Time**  
**Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York**

