Name: N. Rivera
J. Del Valle

SQUIBB Quarterly Measurements
1 Q 2016

Date: March 1, 2016

Building 5 Area							
Well #	Stick up,	Time	PID	Water level,	Well depth,	Screen range,	Notes/Comments
	feet			feet, btc	feet, btc	btc	
UP-1 *	-0.19	1641	0.2	~~3.59~~ 3.59		4.0-14.0	
UP-2 *	-0.28	1600	0.6	6.77		4.0-14.0	
A-1R (4) *	-0.28	1632	8.3	5.609		4.1-14.1	
A-2R (2) *	-0.61	1637	0.3	5.88		2.7-12.7	
A-3	-0.15	—	—	—		8.4-18.4	
D-1R *	-0.29	1422	1.0	8.37		6.1-16.1	
E-1R *	-0.30	1415	1.80	8.43		5.7-20.7	
G-1R (3) *	-0.35	1406	1018.4	7.46		5.7-15.7	
S-28 *	-0.12	1552	0.2	9.96		9.8-19.8	
S-29R *	-0.12	1325	0.3	9.63		11.4-21.4	
S-30 *	2.32	1341	0.0	9.00		12.6-22.6	
S-31R (2) *	-0.39	1328	6.3	8.05		5.6-15.6	VOC odor
S-32 *	2.66	1302	907.4	13.86		11.6-21.6	VOC odor
S-33 *	2.73	1258	0.6	15.50		10.1-20.1	
S-34 *	12.55 1.82	~~1229~~	0.6	17.78		11.2-21.2	
S-35 *	2.39	1229	0.2	13.80		8.0-18.0	
S-36 *	2.04	1245	1.0	15.69		9.5-19.5	
S-37 *	2.70	1253	0.0	21.08		21.7-31.7	
S-38 *	-0.25	1645	0.1	5.92		4.0-14.0	
Bridge	—	1315	—	8.86	NA		
Former Tank Farm							
Well #	Stick up,	Time	PID	Water level,	Well depth,	Screen range,	Notes/Comments
	feet			feet	feet	btc	
MW-3 *	2.45	1717	0.1	9.2		6.8-16.8	
MW-5 *	2.42	1707	0.0	10.47		5.3-15.3	
MW-7 *	1.90	1728	0.0	5.18		6.7-16.7	
MW-9	3.00	1755	0.1	8.67		10.6-20.6	
MW-11	3.47	1652	0.0	11.59		10.5-20.5	
MW-12	2.62	1724	0.1	10.14	23.98	20.9-25.9	
MW-13 *	-0.17	1731	0.1	5.08		5.0-15.0	
MW-14 *	-0.27	1712	0.1	5.01		5.8-15.8	
MW-15 *	-0.26	1659	0.1	5.95		7.5-17.5	
MW-16 *	-0.21	1800	0.1	7.58		6.4-16.4	
MW-17 *	-0.49	1705	53.0	5.54		3.67-13.7	
MW-18 *	-0.04	1715	0.5	5.17		4.0-14.0	
RW-1	1.55	1722	0.1	8.60		4.3-17.3	
Brule Area							
Well #	Stick up,	Time	PID	Water level,	Well depth,	Screen range,	Notes/Comments
	feet			feet	feet	btc	
BR-1	-0.37	1611	13.2	6.10		2.8-12.8	
BR-2	-0.19	1609	0.0	7.01		2.7-12.7	
BR-3	-0.72	1607	0.0	6.07		1.6-12.6	

AMAI Well Purging and Low Flow Sampling Form

Well Number: UP-2

Site Name, Location: BMS-Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump, tubing

Date: March 2, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 14
Top of Screen (ft from TOC): 4
Bottom of Screen (ft from TOC): 14
Pump Intake Level (ft from TOC): ~10
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 6.78 / 1141
Measured DTB (ft from TOC)/Time: (14) /
Headspace Reading (ppm): 0.6
Time @ Start Purging: 1153
Time @ Stop Purging: 1215
Time @ Stop Sampling: 1235
Purge Volume (gallons): 2

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1143	start							
1150.	Stop.	Low water volume coming out						
		Needed to close bottom valve						
1153	6.70	starts	after installing pump					na
1155	6.77	29.47	1042	5.87	8.05	-59.1	30.5	~~30.5~~ 300
1200	6.85	29.32	1059	0.64	6.94	-107.8	13.0	175
1205	6.88	29.25	1063	0.27	6.97	-113.4	9.23	200
1210	6.88	29.25	1055	0.12	6.99	-120.0	6.80	250
1215	6.88	29.26	1050	0.12	7.00	-121.1	4.86	250
			READY TO SAMPLE					

Comments:

Sample Time: 1235 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: clear

Sample Analysis: VOC/Alc/SVOC/ DUP ✓ MS ✓ MSD ✓
semi SVOC/PEST

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: UP-1

Site Name, Location: BMS-Hrumacas

Personnel: N. Rivera / D. Lindstrand

Equipment Used: dedicated bladder pump / tubing

Date: March 2, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 14
Top of Screen (ft from TOC): 4
Bottom of Screen (ft from TOC): 14
Pump Intake Level (ft from TOC): ~9
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 3.66 / 1320
Measured DTB (ft from TOC)/Time: (14) /
Headspace Reading (ppm): 0.2
Time @ Start Purging: 1322
Time @ Stop Purging: 1345
Time @ Stop Sampling: 1356
Purge Volume (gallons): 2

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1322	START							
1325	3.74	30.63	493	1.68	7.23	-146.5	4.94	250
1330	3.78	30.60	459	0.15	6.91	-132.8	2.60	250
1335	3.81	30.58	453	0.15	6.88	-133.7	1.93	300
1340	3.81	30.57	453	0.10	6.89	-135.3	1.65	300
1345	3.81	30.59	454	0.09	6.88	-135.9	1.67	400
			Ready to	sample				

Comments:
Sample Time: 1356 DUP ✓ MS — MSD — Water Quality/Appearance: clear
Sample Analysis: VOC / AIR / SVOC - STM DUP — MS — MSD —
SVOC / PEST
Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: A-1R4

Site Name, Location: BMS-Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump/ bailer

Date: March 2, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 14.1
Top of Screen (ft from TOC): 4.1
Bottom of Screen (ft from TOC): 14.1
Pump Intake Level (ft from TOC): ~10
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 5.75 / 1428
Measured DTB (ft from TOC)/Time: (14.1) /
Headspace Reading (ppm): 8.3
Time @ Start Purging: 1429
Time @ Stop Purging: 15.10
Time @ Stop Sampling: 1528
Purge Volume (gallons): 2.5

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1429	START							
1435	5.94	28.56	1495	0.20	6.72	-89.9	14.7	100
1440	5.99	28.42	1602	0.07	6.71	-91.0	18.6	150
1445	6.13	28.35	1828	0.05	6.68	-93.1	17.3	200
1450	6.14	28.34	1865	0.04	6.67	-93.9	16.3	200
1455	6.15	28.33	1877	0.03	6.67	-94.8	14.8	200
1500	6.18	28.38	1941	0.04	6.63	-83.5	14.7	200
1505	6.19	28.45	1964	0.05	6.62	-86.8	15.3	200
1510	6.23	28.44	1999	0.05	6.60	-86.2	14.3	200
			READY to sample					

Comments:

Sample Time: 1528 DUP — MS — MSD —

Water Quality/Appearance: slightly cloudy

Sample Analysis: VOC/DIC/SVOC SVOC/Pest DUP — MS — MSD —

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: A-2R2

Site Name, Location: BMS, Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump & tubing

Date: March 2, 2016

Monitoring Well Information:

Diameter/Material:	2 / PVC
Depth to Bottom (ft from TOC):	12.7
Top of Screen (ft from TOC):	2.7
Bottom of Screen (ft from TOC):	12.7
Pump Intake Level (ft from TOC):	~11
Desired Pumping Rate (Lpm):	0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time:	5.94 / 1612
Measured DTB (ft from TOC)/Time:	(12.7) /
Headspace Reading (ppm):	0.3
Time @ Start Purging:	1613
Time @ Stop Purging:	1640
Time @ Stop Sampling:	1651
Purge Volume (gallons):	2.5

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1613	START							
1615	6.30	29.10	719	0.10	6.87	1.4	8.34	400
1620	6.30	29.11	785	0.18	6.72	-24.9	2.83	250
1625	6.30	29.06	844	0.11	6.72	-39.2	1.48	250
1630	6.30	28.98	880	0.07	6.72	-50.7	1.44	275
1635	6.30	28.99	891	0.05	6.72	-54.5	1.24	275
1640	6.30	29.03	900	0.04	6.71	-60.5	1.12	275
			Ready to sample					

Comments:

Sample Time: 1651 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: clear

Sample Analysis: VOC/Air | SVOC-SIM DUP ✓ MS ✓ MSD ✓

SVOC / PEST

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV;**
Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-35

Site Name, Location: BMS- Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump / hose

Date: March 3 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC

Depth to Bottom (ft from TOC): 18

Top of Screen (ft from TOC): 8

Bottom of Screen (ft from TOC): 18

Pump Intake Level (ft from TOC): ~ 12

Desired Pumping Rate (Lpm): 0.1 - 0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 13.82 / 1045

Measured DTB (ft from TOC)/Time: (18) /

Headspace Reading (ppm): 0.2

Time @ Start Purging: 1125

Time @ Stop Purging: 1150

Time @ Stop Sampling: 12.09

Purge Volume (gallons): 2.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1105	start							
1109	~~1375~~ - Needed to stop. Needed to loose top/bottom ball valve							
1111	1375	After inserting pump.			start			
1113	stop.	Bottom valve closed. Got it loose. Needed to						
		Remove the hose from pump & loose ball valve						
1125	13.74	start						
1130	14.20	28.60	881	2.45	7.13	-88.5	16.0	250
1135	14.40	28.05	886	0.75	6.90	-84.0	15.9	200
1140	14.57	27.95	871	0.48	6.90	-85.5	9.32	250
1145	14.83	27.83	861	0.40	6.89	-82.7	7.68	250
1150	14.85	27.80	858	0.35	6.89	-84.1	5.43	250
			Ready to sample					

Comments:

Sample Time: 1200 DUP 1209 MS / MSD / Water Quality/Appearance: clear

Sample Analysis: VOC/VOC-Alc/SVOC/SVOC sim/Pest DUP VOC/VOC-Alc/SVOC/SVOC-sim/Pest MS / MSD /

Additional Comments:

Sample has 4 vials for VOC, Has brown flakes floating

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: 5-34

Site Name, Location: BMS - Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump & tubing

Date: March 3, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC

Depth to Bottom (ft from TOC): 21.2

Top of Screen (ft from TOC): 11.2

Bottom of Screen (ft from TOC): 21.2

Pump Intake Level (ft from TOC): ~19

Desired Pumping Rate (Lpm): 0.1 - 0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 17.80 / 1247

Measured DTB (ft from TOC)/Time: (21.2) /

Headspace Reading (ppm): ~~1.25~~

Time @ Start Purging: 1252

Time @ Stop Purging: 1314

Time @ Stop Sampling: 1326

Purge Volume (gallons): 1.75

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1252	~~1252~~	START						
1254	1832	28.40	915	1.23	7.04	-96.6	5.78	200
1259	1860	28.14	893	0.34	6.90	-86.1	6.10	225
1304	1892	27.94	857	0.20	6.92	-82.7	3.24	300 ↓
1309	1912	27.89	849	0.15	6.95	-83.9	2.09	250
1314	1937	27.83	849	0.11	6.97	-86.2	1.84	250
			READY TO SAMPLE					

Comments:

Sample Time: 1326 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: Clear w/ brown flakes

Sample Analysis: VOC/DRC/SVOC/ DUP ✓ MS ✓ MSD ✓

SVOC-SIM, PEST

Additional Comments: Has some brown flakes floating

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-33

Site Name, Location: BMS - Humacao **Personnel:** N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump / hosing **Date:** March 3, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 20.1
Top of Screen (ft from TOC): 10.1
Bottom of Screen (ft from TOC): 20.1
Pump Intake Level (ft from TOC): ~18
Desired Pumping Rate (Lpm): 0.1 - 0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 15.53 / 1351
Measured DTB (ft from TOC)/Time: (20.1) /
Headspace Reading (ppm): 0.6
Time @ Start Purging: 1355
Time @ Stop Purging: 1421
Time @ Stop Sampling: 1442
Purge Volume (gallons): 2

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1355	START							
1401	15.63	28.86	907	0.71	6.72	-96.9	3.81	200 ↓
1406	15.61	28.95	883	0.16	6.63	-92.1	2.33	150
1411	15.59	28.96	881	0.14	6.63	-90.6	2.88	150
1416	15.59	28.85	879	0.14	6.63	-88.3	2.50	200 ↓
1421	15.59	28.80	880	0.11	6.63	-87.6	3.47	150
			READY TO SAMPLE					

Comments:
Sample Time: 1442 DUP / MS / MSD / Water Quality/Appearance: clear
Sample Analysis: VOC/Air/SVOC/SVOC+SIM DUP / MS / MSD /
Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-15

Site Name, Location: BMS - Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump / hosing

Date: March 4, 2016

Monitoring Well Information:

Diameter/Material: 2, PVC
Depth to Bottom (ft from TOC): 15.5
Top of Screen (ft from TOC): 5.5
Bottom of Screen (ft from TOC): 15.5
Pump Intake Level (ft from TOC): ~12
Desired Pumping Rate (Lpm): 0.1 - 0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 6.02 / 1131
Measured DTB (ft from TOC)/Time: (15.5) /
Headspace Reading (ppm): 0.1
Time @ Start Purging: 1158
Time @ Stop Purging: 1220
Time @ Stop Sampling: 1245
Purge Volume (gallons): 2.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1144	START							
1146	STOP. water is not coming out. Needed to loose top/bottom							
		ball valves						
1158	6.05	START						
1200	6.13	29.81	505	2.54	7.15	-104.9	10.01	400 ↓
1205	6.18	29.81	542	0.62	6.97	-112.1	10.59	400 ↓
1210	6.10	29.79	546	0.62	6.99	-108.5	9.35	150
1215	6.10	29.67	540	0.82	7.00	-105.7	8.60	150
1220	6.13	29.69	546	0.77	7.00	-107.7	6.06	150
			Ready	to sample				

Comments:

Sample Time: 1229 DUP ✓ MS 1238 MSD 1245 Water Quality/Appearance: clear

Sample Analysis: VOC / Alc / SVOC / SVOC-SIM / EPH DUP ✓ MS VOC / Alc / SVOC / SVOC + SIM / EPH MSD VOC / Alc / SVOC / SVOC + SIM / EPH

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-17

Site Name, Location: BMS - Hunter

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump & tubing

Date: March 4, 16

Monitoring Well Information:

Diameter/Material: 2 / PVC

Depth to Bottom (ft from TOC): 13.7

Top of Screen (ft from TOC): 3.7

Bottom of Screen (ft from TOC): 13.7

Pump Intake Level (ft from TOC): ~10

Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 5.53 / 1407

Measured DTB (ft from TOC)/Time: (13.7) /

Headspace Reading (ppm): 53

Time @ Start Purging: 1408

Time @ Stop Purging: 1437

Time @ Stop Sampling: 1453

Purge Volume (gallons): 1.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1408	Start							
1412	5.53	29.80	351	0.47	6.85	-64.5	9.46	100
1417	5.53	29.78	460	0.15	6.78	-62.5	6.59	100
1422	5.53	29.77	483	0.19	6.74	-64.9	3.54	100
1427	5.50	29.67	501	0.09	6.72	-69.1	2.43	100
1432	5.50	29.67	502	0.07	6.71	-70.8	1.05	100
1437	5.50	29.65	503	0.08	6.71	-73.1	0.99	100
			READY TO SAMPLE					

Comments:

Sample Time: 1453 DUP / MS / MSD / Water Quality/Appearance: clear

Sample Analysis: VOC/Alk/SVOC/SVOC-SIM/EPA DUP / MS / MSD /

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-14

Site Name, Location: BMS, Humacao
Equipment Used: dedicated bladder

Personnel: N Rivera / J. Del Valle
Date: March 4, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 15.8
Top of Screen (ft from TOC): 5.8
Bottom of Screen (ft from TOC): 15.8
Pump Intake Level (ft from TOC): ~11
Desired Pumping Rate (Lpm): 0.1 - 0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 5.18 / 1535
Measured DTB (ft from TOC)/Time: (15.8) /
Headspace Reading (ppm): 0.1
Time @ Start Purging: 1545
Time @ Stop Purging: 1636
Time @ Stop Sampling: 1724
Purge Volume (gallons): 2

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1536	START							
1548	~~5.18~~	~~STOP~~ Needed to remove pump to loose bottom ball valve						
1545	5.18	START						
1546	5.20	30.05	476	1.32	6.68	-67.9	94.1	350 ↓
1551	5.24	29.96	483	0.31	6.62	-71.8	130.0	175
1556	5.20	29.75	472	1.39	6.65	-66.7	103.7	250
1601	5.20	29.80	473	0.44	6.65	-70.8	91	150
1606	5.20	29.91	478	0.33	6.64	-72.9	84.5	200
1611	5.30	29.93	487	0.17	6.67	-79.7	52.1	300
1616	5.20	30.09	489	0.12	6.68	-83.8	32.9	350 ↓
1621	5.20	29.76	488	0.13	6.68	-83.4	18.5	100
1626	5.20	29.53	486	0.19	6.68	-81.0	9.46	150
1631	5.20	29.53	486	0.19	6.67	-79.4	8.54	100
1636	5.20	29.53	486	0.25	6.67	-79.1	5.37	100
			Ready to sample					

Comments:
Sample Time: 1724 DUP / MS / MSD /
Water Quality/Appearance: clear w/ brown flakes
Sample Analysis: VOC / Alk / SVOC / DUP / MS / MSD /
SVOC + SIM / EPH
Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-18

Site Name, Location: BMS Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump / bosny

Date: March 4, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC

Depth to Bottom (ft from TOC): 14

Top of Screen (ft from TOC): 4

Bottom of Screen (ft from TOC): 14

Pump Intake Level (ft from TOC): ~ 10

Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 5.38 / 1732

Measured DTB (ft from TOC)/Time: (14) /

Headspace Reading (ppm): 0.5

Time @ Start Purging: 1733

Time @ Stop Purging: 1819

Time @ Stop Sampling: 1825

Purge Volume (gallons): 2.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1733	start						Display	
1734	5.38	29.63	873	0.86	6.41	-84.6	51 NTU	450 ↓
1739	5.38	29.50	841	0.19	6.43	-92.8	18 NTU	275 ↓
1744	5.38	28.79	832	0.10	6.42	-90.1	3 NTU	100
1749	5.38	29.36	830	0.07	6.42	-92.2	85.7 NTU	300 ↓
1754	5.38	29.31	832	0.04	6.43	-91.3	64.6 NTU	100
1759	5.38	29.23	830	0.05	6.42	-89.0	33.2 NTU	100
1804	5.38	29.34	831	0.05	6.42	-88.6	24.4 NTU	100
1809	5.38	29.36	832	0.05	6.42	-88.3	20.1 NTU	100
1814	5.38	29.40	834	0.04	6.42	-88.1	21.0 NTU	100
1819	5.38	29:41	832	0.04	6.43	-88.0	20.8 NTU	100
1824								
			Ready To Sample					

Comments:

Sample Time: 1825 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: Cloudy.

Sample Analysis: VOC / Alc / SVOC / DUP ✓ MS ✓ MSD ✓

SVOC-SIM / EPH

Additional Comments: HC Odor

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-29R

Site Name, Location: BMS – Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump/ hoses/tubing

Date: March 7, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 21.4
Top of Screen (ft from TOC): 11.4
Bottom of Screen (ft from TOC): 21.4
Pump Intake Level (ft from TOC): ~18
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 9.12 / 1032
Measured DTB (ft from TOC)/Time: (21.4) /
Headspace Reading (ppm): 0.3
Time @ Start Purging: 1038
Time @ Stop Purging: 1103
Time @ Stop Sampling: 1135
Purge Volume (gallons): 3.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1038	START							
1043	9.18	32.53	957	0.34	6.67	-98.2	2.39	100
1048	9.18	32.24	954	0.15	6.67	-96.1	3.00	100
1053	9.18	32.24	953	0.12	6.68	-94.0	3.70	100
1058	9.18	32.24	951	0.12	6.69	-91.3	2.14	100
1103	9.18	32.28	950	0.08	6.69	-92.4	2.67	100
			READY TO SAMPLE					

Comments:

Sample Time: 1114 DUP / MS 1125 MSD 1135 Water Quality/Appearance: clear

Sample Analysis: VOC/Alc/SVOC/SVOC+Sim/Pest DUP / MS VOC/Alc/SVOC/SVOC+Sim/PEST MSD VOC/Alc/SVOC/SVOC+Sim/Pest

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: 5-31R (2)

Site Name, Location: BMS-Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump & tubing

Date: March 7, 2016

Monitoring Well Information:

Diameter/Material: 2, PVC
Depth to Bottom (ft from TOC): 15.6
Top of Screen (ft from TOC): 5.6
Bottom of Screen (ft from TOC): 15.6
Pump Intake Level (ft from TOC): ~11
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 8.07 / 1321
Measured DTB (ft from TOC)/Time: (15.6) /
Headspace Reading (ppm): 6.3
Time @ Start Purging: 1322
Time @ Stop Purging: 1416
Time @ Stop Sampling: 1428
Purge Volume (gallons): 4

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1322	Start							
1326	8.25	32.79	888	0.45	6.59	-96.1	32.1	175
1331	8.25	32.78	832	0.25	6.57	-97.5	53.8	175
1336	8.25	32.81	796	0.13	6.53	-91.9	49.4	175
1341	8.25	32.84	787	0.09	6.50	-88.3	35.9	175
1346	8.25	32.84	786	0.11	6.49	-85.8	24.8	175
1351	8.25	32.90	786	0.09	6.47	-82.2	19.6	175
1356	8.25	32.87	785	0.07	6.47	-84.3	18.5	175
1401	8.25	32.88	788	0.07	6.46	-82.8	11.0	175
1406	8.25	32.84	789	0.07	6.46	-82.5	9.03	175
1411	8.25	32.88	797	0.06	6.46	-85.0	8.15	175
1416	8.25	32.90	799	0.07	6.43	-85.5	7.07	175
			Ready to sample					

Comments:

Sample Time: 1428 DUP ___ MS ___ MSD ___ Water Quality/Appearance: slightly cloudy

Sample Analysis: VOC / Air / SVOC / DUP ___ MS ___ MSD ___
SVOC-SIM / PCBs

Additional Comments: ___

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-30

Site Name, Location: BMS-Humacao

Personnel: A. Rivera / J. del Valle

Equipment Used: Decontaminated bladder pump. Dedicated tubing

Date: March 8, 2016

Monitoring Well Information:

Diameter/Material: 2 PVC
Depth to Bottom (ft from TOC): 22.6
Top of Screen (ft from TOC): 12.6
Bottom of Screen (ft from TOC): 22.6
Pump Intake Level (ft from TOC): ~17
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 9.08 / 1304
Measured DTB (ft from TOC)/Time: (22.6) /
Headspace Reading (ppm): 0
Time @ Start Purging: 1324
Time @ Stop Purging: 1400
Time @ Stop Sampling: 1427
Purge Volume (gallons): 2.5

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1316	9.08	After	inserting					
1324	START							
1330	9.17	29.13	881	2.18	6.67	-41.7	23.6	300 ↓
1335	9.14	29.52	880	0.55	6.73	-66.2	18.3	300 ↓
1340	9.18	29.29	886	0.34	6.75	-70.0	10.9	125
1345	9.08	28.61	886	0.36	6.76	-69.5	11.5	125
1350	9.08	28.69	885	0.36	6.76	-69.4	5.87	125
1355	9.08	28.81	883	0.32	6.76	-69.5	6.55	125
1400	9.08	28.85	887	0.27	6.76	-70.0	4.87	125
			Ready To Sample					

Comments:

Sample Time: 1427 DUP — MS — MSD — Water Quality/Appearance: Clear

Sample Analysis: VOC/all / SVOC/ DUP — MS — MSD —
SVOC - Sim / PCBs

Additional Comments: FB030816 @ 1430 (full set as grab sample)

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-11

Site Name, Location: BMS, Humacao

Personnel: N. Rivera/J. Del Valle

Equipment Used: dedicated water/air lines + bladder & cord

Date: March 8, 2016

Monitoring Well Information:

Diameter/Material: 2 PVC
Depth to Bottom (ft from TOC): 20.5
Top of Screen (ft from TOC): 10.5
Bottom of Screen (ft from TOC): 20.5
Pump Intake Level (ft from TOC): ~16
Desired Pumping Rate (Lpm): 0.1-0.7

Well Purging Information:

Measured DTW (ft from TOC)/Time: 11.65 / 1627
Measured DTB (ft from TOC)/Time: (20.5) /
Headspace Reading (ppm): 0.0
Time @ Start Purging: 1654
Time @ Stop Purging: 1754
Time @ Stop Sampling: 1808
Purge Volume (gallons): 4.75

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1643	11.65	After installing pump/tubing						
1644	START							
1646	STOP	Needed to tight bladder connection						
1653	11.63	set pump back in the well						
1654	START							
1659	11.65	26.17	445	5.82	7.32	62.9	3NTU	300+
1704	11.72	26.13	440	4.50	7.06	58.2	76.3 NTU	200
1709	11.73	26.05	437	4.14	7.00	41.7	55.8 NTU	225
1914	11.73	26.02	436	3.64	6.95	23.2	43.2 NTU	225
1719	11.73	25.98	435	3.34	6.93	10.9	28.6 NTU	225
1724	11.73	25.96	435	3.20	6.92	4.4	19.8 NTU	225
1729	11.73	25.97	434	2.82	6.92	-1.3	17.1 NTU	225
1734	11.73	25.96	434	2.72	6.89	-2.3	14.1 NTU	225
1739	1173	25.93	434	2.70	6.89	-4.3	12.4 NTU	225
1744	1173	25.92	434	2.62	6.88	-5.1	8.84	225
1749	1173	25.91	434	2.61	6.87	-6.3	8.60	225
1754	1173	25.93	434	2.59	6.87	-7.1	5.86	225
				READY TO		sample		

Comments:

Sample Time: 1808 DUP / MS / MSD /

Water Quality/Appearance: clear

Sample Analysis: VOC/DRO/SVOC/ DUP / MS / MSD /
SVOC SIM/PCB

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-13

Site Name, Location: BMS

Personnel: N. Rivera / Jose del Valle

Equipment Used: dedicated bladder pump & tubing

Date: March 09-2014

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 15
Top of Screen (ft from TOC): 5
Bottom of Screen (ft from TOC): 15
Pump Intake Level (ft from TOC): ~11
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 5.37 08.58
Measured DTB (ft from TOC)/Time: (15) /
Headspace Reading (ppm): 0.1
Time @ Start Purging: ~~0900~~ 0900
Time @ Stop Purging: 0925
Time @ Stop Sampling: 0946
Purge Volume (gallons): 1.5

	Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
start	0900	5.37	28.56	0.438	.59.7	6.72	-29.3	33.3	100
	0905	5.37	28.30	.437	.59.0	6.74	-43.7	18.8	100
	0910	5.37	28.22	.438	.60	6.73	-45.9	17.9	100
	0915	5.37	28.29	.439	.38	6.73	-47.7	9.73	100
	0920	5.37	28.39	.446	.31	6.73	-48.9	7.06	100
	0925	5.37	28.42	.439	.30	6.73	-49.9	6.38	100
			Ready to Samply						

Comments:

Sample Time: 946 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: clear w/ brown flakes

Sample Analysis: VOC/Alc/SVOC/ DUP ✓ MS ✓ MSD ✓
SVOC-Sim / EPH

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV;**
Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-7

Site Name, Location: BMS-Humacao

Personnel: N Rivera / J. Del Valle

Equipment Used: dedicated bladder pump/tubing

Date: March 9, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 16.7
Top of Screen (ft from TOC): 6.7
Bottom of Screen (ft from TOC): 16.7
Pump Intake Level (ft from TOC): ~12
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 5.63 / 1032
Measured DTB (ft from TOC)/Time: (16.7) /
Headspace Reading (ppm): 0.0
Time @ Start Purging: 1036
Time @ Stop Purging: 1101
Time @ Stop Sampling: 1119
Purge Volume (gallons): 1.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1036	Start							
1041	5.93	30.12	897	0.76	6.89	-58.2	5.22	400 ↓
1046	5.76	30.07	894	0.85	6.92	-68.4	4.82	300 ↓
1051	5.72	29.90	886	0.91	6.95	-71.3	4.69	100
1056	5.72	29.84	884	1.13	6.94	-68.6	3.97	100
1101	5.72	29.84	877	1.07	6.92	-67.7	3.97	100
			Ready	to sample				

Comments:

Sample Time: 1119 DUP / MS / MSD / Water Quality/Appearance: clear

Sample Analysis: VOC/Alu/SVOC/ DUP / MS / MSD /

SVOC-SIM/EPH

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV;**
Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-3

Site Name, Location: BMS - Humacao

Personnel: N. Rivera / J Del Valle

Equipment Used: dedicated bladder pump / tubing

Date: March 9, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 16.8
Top of Screen (ft from TOC): 6.8
Bottom of Screen (ft from TOC): 16.8
Pump Intake Level (ft from TOC): ~13
Desired Pumping Rate (Lpm): 0.1 - 0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 9.95 / 1152 *
Measured DTB (ft from TOC)/Time: (16.8) /
Headspace Reading (ppm): 0.1
Time @ Start Purging: 1157
Time @ Stop Purging: 1225
Time @ Stop Sampling: 1255
Purge Volume (gallons): 2

* top of pump

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1157	START							
1205	9.95+	28.31	916	4.01	6.84	-32.4	11.29	400↓
1210	9.95+	28.26	965	2.84	6.34	-58.4	9.25	100
1215	9.95+	28.26	921	2.99	6.33	-66.5	5.68	400↓
1220	9.95+	28.34	906	2.91	6.35	-66.2	7.55	100
1225	9.95	28.39	903	2.89	6.35	-62.1	4.95	100
			Ready	to sample				

Comments:

Sample Time: 1241 DUP 1255 MS MSD Water Quality/Appearance: clear
Sample Analysis: VOC/Metals / SVOC DUP VOC/Metals/SVOC MS MSD
SVOC + SIM + EPH SVOC-SIM/EPH
Additional Comments:

• NOTE Dup Sample discarded •

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-5

Site Name, Location: BMS - Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated pump & tubing

Date: March 9, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 16.8
Top of Screen (ft from TOC): 6.8
Bottom of Screen (ft from TOC): 16.8
Pump Intake Level (ft from TOC): ~13
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 10.71 / 1355
Measured DTB (ft from TOC)/Time: (16.8) /
Headspace Reading (ppm): 0.0
Time @ Start Purging: 1403
Time @ Stop Purging: 1509
Time @ Stop Sampling: 1529
Purge Volume (gallons): 3.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1403	Start							
1409	~~11.85~~ 11.85	28.77	980	2.29	6.69	-11.3	17.2	150
1414	12.18	28.65	1214	1.24	6.70	-44.7	11.7	100
1419	12.28	28.60	1214	1.01	6.71	-48.9	9.86	100
1424	12.30	28.62	1077	0.91	6.73	-51.8	8.98	100
1429	12.30	28.72	985	0.79	6.73	-53.8	7.96	100
1434	12.32	28.65	898	0.70	6.73	-55.0	7.09	100
1439	12.33	28.59	825	0.80	6.73	-57.7	7.67	100
1444	12.33	28.66	759	0.61	6.73	-60.4	6.69	100
1449	12.35+	28.71	730	0.52	6.72	-62.2	6.40	100
1454	12.35+	28.76	721	0.48	6.69	-57.9	6.31	150
1459	12.35+	28.75	690	0.68	6.67	-54.2	6.04	200
1504	12.35+	28.74	680	0.47	6.67	-59.9	5.68	300
1509	12.35+	28.71	673	0.40	6.67	-60.3	5.39	300
			READY TO SAMPLE					

Comments:

Sample Time: 1529 DUP / MS / MSD / Water Quality/Appearance: clear

Sample Analysis: VOC / Alc / SVOC / DUP / MS / MSD /
SVOC + SIM / BCH

Additional Comments:

12.35+ = top of pump

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-16

Site Name, Location: BMS - Humacao

Personnel: N. Rivera / J Del Valle

Equipment Used: dedicated bladder pump/ hose

Date: March 9, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 16.4
Top of Screen (ft from TOC): 6.4
Bottom of Screen (ft from TOC): 16.4
Pump Intake Level (ft from TOC): ~12
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 7.93 / 1752
Measured DTB (ft from TOC)/Time: (16.4) /
Headspace Reading (ppm): 0.1
Time @ Start Purging: 1759
Time @ Stop Purging: 1830
Time @ Stop Sampling: 1902
Purge Volume (gallons): 2.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1759	Start							
1805	8.19	30.09	667	3.07	7.44	-6.7	17.3	350 ↓
1810	8.05	30.22	783	0.40	7.32	-3.7	11.0	100
1815	8.03	30.18	772	0.32	7.22	-0.7	7.64	175
1820	8.03	30.43	757	0.18	7.11	-0.4	8.23	325 ↓
1825	8.03	30.22	748	0.17	7.06	-4.2	7.28	100
1830	8.03	29.78	739	0.23	6.99	-9.3	8.95	125
			Ready to Sample					

Comments:

Sample Time: 1847* DUP 1902 MS / MSD /

Water Quality/Appearance: clear

Sample Analysis: VOC/Alc/SVOC/ SVOC-SIM/EPH DUP VOC/Alc/SVOC SVOC-SIM/EPH MS / MSD /

Additional Comments:

* 4 vials for VOC's

TB030916 @ 1902
VOC's (2) / Alcohols (2)
BOTH 2/22/16 @ 1000

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: BR-1

Site Name, Location: BMS, Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder & tubing & cord + decontaminated pump

Date: March 11, 20

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 12.8
Top of Screen (ft from TOC): 2.8
Bottom of Screen (ft from TOC): 12.8
Pump Intake Level (ft from TOC): ~10
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 6.44 / 1213
Measured DTB (ft from TOC)/Time: (12.8) /
Headspace Reading (ppm): 13.2
Time @ Start Purging: 1223
Time @ Stop Purging: 1250
Time @ Stop Sampling: 1312
Purge Volume (gallons): 1.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1221	6.44	After	installing	pump	& hosing			
1223	START							
~~1230~~			~~32.29~~	~~803~~	~~1.74~~	~~7.11~~	~~[illegible]~~	
1230	6.52	32.29	803	1.49	7.10	-99.9	24.0	100
1235	6.54	31.84	~~[illegible]~~ 776	0.87	7.11	-117	10.94	150
1240	6.54	31.76	762	0.55	7.13	-126.8	9.35	175+
1245	6.53	31.78	757	0.35	7.15	-132.2	6.77	150
1250	6.53	31.82	757	0.29	7.16	-133.9	7.01	150
			Ready	To	Sample			

Comments:

Sample Time: 1312 DUP / MS / MSD / Water Quality/Appearance: clear

Sample Analysis: VOC/Al/SVOC/SVOC-SIM/ DUP / MS / MSD /

Additional Comments:

EB031116 @ 1214 (bottles; 2 1L w/out HCl, 2 1L w/ HCl)

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: BR-2

Site Name, Location: BMS, Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder, tubing/cord decontaminated bladder pump

Date: March 11, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 12.7
Top of Screen (ft from TOC): 2.7
Bottom of Screen (ft from TOC): 12.7
Pump Intake Level (ft from TOC): 7.10
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 7.41 / 1400
Measured DTB (ft from TOC)/Time: (12.7) /
Headspace Reading (ppm): 0.0
Time @ Start Purging: 1404
Time @ Stop Purging: 1437
Time @ Stop Sampling: 1517
Purge Volume (gallons): 3.5

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1404	7.35	After	installing	the	pump	START		
1407	7.44	29.03	805	3.37	7.25	-86.2	21.3	300 ↓
1412	7.44	28.80	781	0.55	6.97	-99.2	13.5	200
1417	7.44	28.73	706	0.35	7.01	-109.3	9.85	200
1422	7.44	28.75	680	0.33	7.03	-111.8	6.73	200
1427	7.44	28.71	664	0.36	7.05	-112.6	5.05	200
1432	7.44	28.75	655	0.36	7.07	-114.4	3.13	200
1437	7.46	28.64	649	0.35	7.07	-114.6	3.57	300
			Ready	TO	sample			

Comments:

Sample Time: 1458 DUP 1517 MS / MSD /

Water Quality/Appearance: clear

Sample Analysis: VOC/Al/SVOC DUP VOC/Al/SVOC MS / MSD /

4 VOC SVOC-SIM/EPH SVOC-SIM/EPH

VIALS Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: BR-3

Site Name, Location: BMS - Humacao

Personnel: N. Rivera / F. Del Valle

Equipment Used: dedicated bladder, hosing, cord, decontaminated pump

Date: March 11, 2016

Monitoring Well Information:

Diameter/Material:	2, PVC
Depth to Bottom (ft from TOC):	12.6
Top of Screen (ft from TOC):	2.4
Bottom of Screen (ft from TOC):	12.6
Pump Intake Level (ft from TOC):	~10
Desired Pumping Rate (Lpm):	0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time:	6.34, 1601
Measured DTB (ft from TOC)/Time:	(12.6) /
Headspace Reading (ppm):	0.0
Time @ Start Purging:	1618
Time @ Stop Purging:	1703
Time @ Stop Sampling:	1820
Purge Volume (gallons):	0.75

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1618	6.02	After installing pump & tubing					start	
1623	7.33	29.66	779	2.24	7.55	53.6	30.8	100
1628	7.70	29.53	809	2.20	7.13	54.1	17.7	100
1633	7.81	29.56	846	1.87	7.12	42.0	38.9	100 *
1638	8.51	29.47	808	1.39	7.12	27.3	-2	100
1643	8.92	29.40	776	0.96	7.09	-18.6	-20	100
1648	9.13	29.35	768	0.93	7.09	-30.9	65.2	100
1653	9.73	29.33	760	0.99	7.08	-42.7	57.7	100
1658	10.03	29.32	710	0.95	7.06	-61.9	53.7	100
1703	10.11 **	29.30	675	0.93	7.05	-69.7	54.4	100
1710	9.12							
1758	6.70	start pumping to start sampling						

Comments:

Sample Time: 1820 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: cloudy

Sample Analysis: VOC / Al. / SVOC / SVOC-SIM / EPH DUP ✓ MS ~~VOC~~ only MSD ~~VOC~~ only

Additional Comments: * - needed to lower pump. It was hitting top of pump
** - top of pump. Well was dry. Stopped pumping
1746 As per conversation w/ D Lindstrom & F Taylor it is agreed to

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV;**
Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.

sample after well recovers

FB031116 @ 1823

TB031116 @ 1820 2 VOC / 2 Al. [2/22/16 @ 1000]

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-38

Site Name, Location: BMS HUMACAO

Personnel: N. Rivera / José Del Valle

Equipment Used: dedicated bladder pump / hosing

Date: March 14 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 14
Top of Screen (ft from TOC): 4
Bottom of Screen (ft from TOC): 14
Pump Intake Level (ft from TOC): ~10
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 6.10 / 0827
Measured DTB (ft from TOC)/Time: (14) /
Headspace Reading (ppm): 0.1
Time @ Start Purging: 0832
Time @ Stop Purging: 907
Time @ Stop Sampling: 931
Purge Volume (gallons): 1.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
0837	6.15	28.24	598	192	6.57	168.7	26.3	100
0842	6.18	28.35	585	1.16	6.60	156.3	24.8	100
0847	6.18	28.42	582	0.68	6.62	145.4	18.3	100
0852	6.18	28.41	581	0.41	6.63	125.5	18.6	100
0857	6.20	28.60	580	0.31	6.65	102.0	9.07	200
0902	6.18	28.46	581	0.27	6.65	92.0	7.39	100
0907	6.18	28.33	581	0.32	6.65	85.6	7.94	100
0912								
			Ready	To	Sample			

Comments:

Sample Time: 931 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: clear

Sample Analysis: VOC / (Al,) SVOC DUP ✓ MS ✓ MSD ✓

SVOC + Sim / Pest

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-37

Site Name, Location: BMS, Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: Dedicated bladder pump/tubing

Date: March 14, 2012

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 31.7
Top of Screen (ft from TOC): 21.7
Bottom of Screen (ft from TOC): 31.7
Pump Intake Level (ft from TOC): -24
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 21.03 / 1303
Measured DTB (ft from TOC)/Time: (31.7) /
Headspace Reading (ppm): 0.0
Time @ Start Purging: 1314
Time @ Stop Purging: 1340
Time @ Stop Sampling: 1357
Purge Volume (gallons): 1.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1314	start							
1320	21.24	27.95	893	2.64	7.45	-25.5	4.67	375 ↓
1325	21.24	27.98	892	1.44	7.32	-70.1	3.97	175
1330	21.24	27.98	892	1.35	7.31	-82.2	3.41	175
1335	21.24	28.05	892	1.00	7.31	-86.8	2.43	175
1340	21.4	28.20	892	0.96	7.31	-88.5	2.87	175
			READY to Sample					

Comments:

Sample Time: 1357 DUP ✓ MS ✓ MSD ✓

Water Quality/Appearance: clear w/ brown flakes

Sample Analysis: VOC/BL / SVOC / SVOC + SVM / Pest. DUP ✓ MS ✓ MSD ✓

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-36

Site Name, Location: BMS - Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump w/ tubing.

Date: March 14, 2012

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 19.5
Top of Screen (ft from TOC): 9.5
Bottom of Screen (ft from TOC): 19.5
Pump Intake Level (ft from TOC): ~15
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 15.73 / 1437
Measured DTB (ft from TOC)/Time: (19.5) /
Headspace Reading (ppm): 1.0
Time @ Start Purging: 1438
Time @ Stop Purging: 1505
Time @ Stop Sampling: 1529
Purge Volume (gallons): 1

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1438	Start							
1440	16.13	28.97	944	2.17	7.00	46.7	4.45	200 +
1445	16.21	29.21	1006	0.98	6.87	-9.1	4.64	100
1450	16.91	28.84	1018	0.70	6.90	-43.5	5.48	100
1455	~~16.87~~ 16.72	28.91	1017	0.55	6.91	-55.5	4.27	200 +
1500	16.72	29.04	1016	0.37	6.93	-62.0	3.46	100
1505	16.72	29.04	1012	0.34	6.95	-63.7	3.18	100
			Ready to Sample					

Comments:

Sample Time: 1529 DUP / MS / MSD /

Water Quality/Appearance: Clear w/ brown flakes

Sample Analysis: VOC / ALV / SVOC / DUP / MS / MSD /
SVOC - SIM / PESTS

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-32

Site Name, Location: BMS, Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder pump / tubing

Date: March 14, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 21.6
Top of Screen (ft from TOC): 11.6
Bottom of Screen (ft from TOC): 21.6
Pump Intake Level (ft from TOC): ~19
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 13.93 / 1555
Measured DTB (ft from TOC)/Time: (21.6) /
Headspace Reading (ppm): 907.4
Time @ Start Purging: 1556
Time @ Stop Purging: 1619
Time @ Stop Sampling: 1634
Purge Volume (gallons): 1

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1556	start							
1559	1415	29.66	950	3.01	7.11	-105.3	15.8	200
1604	1426	30.46	915	0.42	6.64	-107.7	8.13	200
1609	1438	30.76	886	0.18	6.60	-106.5	7.68	350 +
1614	14.15	30.58	887	0.10	6.60	-105.0	6.95	100
1619	1415	30.50	8.85	0.16	6.59	-103.9	7.76	100
1624								
			READY TO SAMPLE					

Comments:
Sample Time: 1634 DUP — MS — MSD — Water Quality/Appearance: clear w/ flakes
Sample Analysis: VOC/Alc/SVOC DUP — MS — MSD —
SVOC+SIM / PCB
Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: MW-9

Site Name, Location: BMS, Humacao

Personnel: N. Rivera / J. Del Valle

Equipment Used: dedicated bladder tubing / cord - decontaminated pump.

Date: March 14, 2012

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 20.6
Top of Screen (ft from TOC): 10.6
Bottom of Screen (ft from TOC): 20.6
Pump Intake Level (ft from TOC): -15
Desired Pumping Rate (Lpm): 0.1 - 0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 8.90 / 1738
Measured DTB (ft from TOC)/Time: (20.6) /
Headspace Reading (ppm): 0.1
Time @ Start Purging: 1746
Time @ Stop Purging: 1856
Time @ Stop Sampling: 1914
Purge Volume (gallons): 5

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1746	8.89	After	installing	pump/tubing,			Start	
1751	8.95	29.69	884	5.42	7.29	60.9	2470 AU	200
1756	9.01	26.70	878	2.30	6.70	59.6	729 AU	225
1801	9.01	26.65	873	1.58	6.68	51.7	3	250 ↓
1806	9.01	26.57	872	1.28	6.68	46.6	62.0	200
1811	8.98	26.51	870	1.15	6.68	43.2	52.7	200
1816	8.98	26.54	870	1.05	6.70	38.9	36.5	200
1821	8.98	26.54	869	0.91	6.69	36.0	19.6	200
1826	8.98	26.53	870	0.75	6.68	33.0	14.0	200
1831	8.98	26.54	870	0.70	6.68	31.2	11.70	200
1836	8.98	26.57	870	0.61	6.68	29.1	10.43	200
1841	8.98	26.57	870	0.56	6.68	27.9	10.23	200
1846	8.98	26.59	870	0.50	6.68	26.0	8.31	200
1851	8.98	26.58	870	0.43	6.68	24.7	7.45	200
1856	8.98	26.57	870	0.41	6.68	23.4	6.63	200
			Ready to sample					

Comments:

Sample Time: 1914 DUP / MS / MSD / Water Quality/Appearance: clear w/ red flakes

Sample Analysis: VOC/AVC/SVOC/ DUP / MS / MSD /

SVOC-SIM/PAST

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: D-1R

Site Name, Location: BMS-Humacao

Personnel: Nestor Rivera / José Del Valle

Equipment Used: dedicated bladder pump / tubing

Date: March 15, 2012

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 16.1
Top of Screen (ft from TOC): 6.1
Bottom of Screen (ft from TOC): 16.1
Pump Intake Level (ft from TOC): -12
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 8.38 / 1018
Measured DTB (ft from TOC)/Time: (16.1) /
Headspace Reading (ppm): 1.0
Time @ Start Purging: 1020
Time @ Stop Purging: 1045
Time @ Stop Sampling: 1108
Purge Volume (gallons): 1.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1020	start							
1025	8.40	30.30	834	0.80	6.90	-103.3	9.89	150
1030	8.44	30.17	802	0.52	6.81	-100.7	9.96	200
1035	8.44	30.21	783	0.24	6.78	-101.5	6.53	200
1040	8.48	30.25	779	0.14	6.78	-102.8	8.81	300 ↓
1045	8.40	30.25	779	0.18	6.78	-102.8	5.50	100
			Ready to sample					

Comments:

Sample Time: 1108 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: clear w/ yellowish/white flakes

Sample Analysis: VOC/Alc/ SVOC/ SVOC+SIM / PEST DUP ✓ MS ✓ MSD ✓

Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: S-28

Site Name, Location: BMS Humacao

Personnel: Nestor Rivera/Jose DeLVALLE

Equipment Used: dedicated bladder pump + tubing

Date: March 15, 2016

Monitoring Well Information:

Diameter/Material: 2, PVC
Depth to Bottom (ft from TOC): 19.8
Top of Screen (ft from TOC): 9.8
Bottom of Screen (ft from TOC): 19.8
Pump Intake Level (ft from TOC): -14
Desired Pumping Rate (Lpm): 0.1-0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 9.85 / 0824
Measured DTB (ft from TOC)/Time: (19.8) /
Headspace Reading (ppm): 0.2
Time @ Start Purging: 0827
Time @ Stop Purging: 0900
Time @ Stop Sampling: 0918
Purge Volume (gallons): 2.25

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
0830	10.03	29.35	1001	.58	6.80	-61.3	15.0	200
0835	10.03	29.35	1008	.33	6.91	-96.1	5.96	200 ↓
0840	9.98	29.29	954	.27	7.00	-107.0	5.93	100
0845	9.98	29.25	921	.24	7.04	-111.5	5.48	100
0850	10.00	29.29	889	.18	7.09	-116.9	4.23	175
0855	10.00	29.31	882	.14	7.10	-118.8	4.08	175
0900	10.06	29.35	879	.15	7.11	-119.6	4.01	175
		Ready to Samply						

Comments:
Sample Time: 0918 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: Clear
Sample Analysis: VOC/SVOC DUP ✓ MS ✓ MSD ✓
Alc / SVOC-SIM / PEST
Additional Comments:

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: E-1 R

Site Name, Location: BMS Humacao

Personnel: N Rivera / J. Del Valle

Equipment Used: dedicated bladder pump / turbidity

Date: March 15, 2016

Monitoring Well Information:

Diameter/Material:	2 / PVC
Depth to Bottom (ft from TOC):	20.7
Top of Screen (ft from TOC):	10.7
Bottom of Screen (ft from TOC):	20.7
Pump Intake Level (ft from TOC):	~15
Desired Pumping Rate (Lpm):	0.1-0.7

Well Purging Information:

Measured DTW (ft from TOC)/Time:	8.35 / 1137
Measured DTB (ft from TOC)/Time:	(20.7) /
Headspace Reading (ppm):	1.80
Time @ Start Purging:	1145
Time @ Stop Purging:	1242
Time @ Stop Sampling:	1259
Purge Volume (gallons):	2.75

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1145	START							
1153	8.47	30.82	1267	1.26	7.00	-78.8	30.3	125
1158	8.49	30.61	1258	1.46	7.07	-101.3	41.0	150 ↓
1203	8.51	30.58	1257	1.54	7.07	-102.1	85.0	300 ↓
1208	8.52	30.45	1253	2.01	7.09	-103.5	677 AV	150
1212	8.43	30.35	1249	1.42	7.12	-102.6	1155 AV	225 ↓
1217	8.41	30.11	1267	1.45	7.17	-100.5	845 AV	100
1222	8.42	30.13	1266	1.58	7.18	-100.1	815 AV	100
1227	8.51	30.23	1269	1.51	7.17	-101.8	623 AV	200
1232	8.54	30.36	1272	1.38	7.16	-105.5	-5 NTU	200 ↓
1237	8.53	30.40	1274	1.21	7.15	-108.3	-4	250 ↓
1242	8.53	30.38	1275	1.40	7.15	-109.6	-8	225
			Ready to sample					

Comments:

Sample Time: 1259 DUP ✓ MS ✓ MSD ✓ Water Quality/Appearance: cloudy.

Sample Analysis: VOC / Alk / SVOC DUP ✓ MS ✓ MSD ✓

SVOC-SIM / PEST

Additional Comments:

At 1203 the pump rate was 300 and got v. turbid water. Reduced flow

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

AMAI Well Purging and Low Flow Sampling Form

Well Number: G-1R3

Site Name, Location: BMS HUMACAO

Personnel: Nestor Rivera / José DelValle

Equipment Used: dedicated bladder pump / tubing

Date: March 15, 2016

Monitoring Well Information:

Diameter/Material: 2 / PVC
Depth to Bottom (ft from TOC): 15.7
Top of Screen (ft from TOC): 5.7
Bottom of Screen (ft from TOC): 15.7
Pump Intake Level (ft from TOC): ~12
Desired Pumping Rate (Lpm): 0.1–0.4

Well Purging Information:

Measured DTW (ft from TOC)/Time: 7.92 / 1354
Measured DTB (ft from TOC)/Time: (15.7) /
Headspace Reading (ppm): 1018.4
Time @ Start Purging: 1356
Time @ Stop Purging: 1451
Time @ Stop Sampling: 1509
Purge Volume (gallons): 4

Time	DTW (ft TOC)	Temp (C)	S.Cond (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Flow (mL/min)
1356	Start							
1406	7.65	29.52	383	0.48	6.71	-46.3	77.1	300 ↓
1411	7.39	29.47	372	1.48	6.67	-51.8	70.6	100
1416	7.40	29.40	375	1.85	6.65	-53.8	59.4	100
1421	7.66	29.40	379	2.29	6.68	-55.0	49.6	300 ↓
1426	7.66	29.41	391	2.49	6.71	-55.6	42.4	200
1431	7.68	29.53	397	2.38	6.69	-54.3	31.5	200
1436	7.80	29.49	398	2.51	6.69	-54.1	28.7	275 ↓
1441	7.82	29.49	396	2.81	6.69	-53.9	24.3	275 ↓
1446	7.83	29.43	388	2.70	6.69	-53.8	23.8	275 ↓
1451	7.84	29.41	393	2.88	6.68	-52.9	22.1	275
			Ready	to sample				

Comments:

Sample Time: 1509 DUP / MS / MSD / Water Quality/Appearance: cloudy (yellowish)

Sample Analysis: VOC / Alk / SVOC DUP / MS / MSD /
SVOC-SIM / PEST

Additional Comments: Water is bubbleing and has VOC odor.

Well Stabilization : is considered to be achieved when three consecutive readings, taken at 5 minute intervals are within the following limits: **DO +/- 0.3 mg/L; Spec. Cond. +/-3%; Temp. +/-3%; pH +/- 0.1 unit; ORP +/-10 mV; Addn'l Guidelines: Drawdown <= 0.33 feet; Pumping rates = 100 to 400 ml/min; Turbidity +/-10% or < 10 NTU.**

Photoionization Detector Calibration Log

Site Name, Location: BMS, Humacao

Personnel: N. Rivera

PID Model: MiniRAE 3000

PID Serial #: 592 - 911260

Calibration Gas: Isobutylene

Calibration Gas Mfgr: Portacyl

Lot #: 0409FA13

Expiration Date: 5/2017

Day #: 1 Date: March 1, 2016 Time: 1112

Describe location at which calibration is performed: _____

Zero Gas: ambient air at calibration location: 0.0 ppm

Span Gas: 100 ppm isobutylene

Reading from calibration gas after calibration: 100.0 ppm

(Reading should be within 10% of calibration gas, otherwise recalibrate)

Day #: _____ Date: _____ Time: _____

Describe location at which calibration is performed: _____

Zero Gas: ambient air at calibration location: _____ ppm

Span Gas: 100 ppm isobutylene

Reading from calibration gas after calibration: _____ ppm

(Reading should be within 10% of calibration gas, otherwise recalibrate)

Day #: _____ Date: _____ Time: _____

Describe location at which calibration is performed: _____

Zero Gas: ambient air at calibration location: _____ ppm

Span Gas: 100 ppm isobutylene

Reading from calibration gas after calibration: _____ ppm

(Reading should be within 10% of calibration gas, otherwise recalibrate)

Day #: _____ Date: _____ Time: _____

Describe location at which calibration is performed: _____

Zero Gas: ambient air at calibration location: _____ ppm

Span Gas: 100 ppm isobutylene

Reading from calibration gas after calibration: _____ ppm

(Reading should be within 10% of calibration gas, otherwise recalibrate)

Instrument Calibration Log

Site Name, Location: BMB - Hurricane
Personnel: N Raven
Instrument Model: YSI 556 MPS
Instrument Serial #: 14L101340 (YSI) 030468 (Pine)

Day #: 1 Date: March 2, 2016 Time: 1015

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
7.85 / 28		765 mm / Hg 100.6 %

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard	5GH467 / 8\31\2017	4.00	
7.0 Standard	5GI006 / 9\31\2017	7.00	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413	5G1101 / 9\30\2016	1413	

Turbidity La Motte 2020 we S/N 3460 - 2313

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard	DI water	0.0	
100 Standard	A4174 / Jun 2016	99.8	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240	8039 / 9\30\2019	240	

Day #: 2 Date: March 3, 2016 Time: 1031

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
8.17 / 28		763 mm Hg 100.8 %

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard	5GH467 / 8\31\2017	4.0	
7.0 Standard	5GI006 / 9\31\2017	7.0	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413	5G1101 / 9\30\2016		

Turbidity La Motte 2020 we S/N 3460 - 2313

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard	DI water	0.24	
100 Standard	A4174 / Jun 2016	99.3	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240	8039 / 9\30\2019	240	

Day #: 3 Date: March 4, 2016 Time: 1009

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
7.88 / 27		765 mm Hg 100.7

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard	5GH467 / 8\31\2017	4.00	
7.0 Standard	5GI006 / 9\31\2017	7.00	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413	5G1101 / 9\30\2016		

Turbidity La Motte 2020 we S/N 3460 - 2313

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard	DI water	0.0	
100 Standard	A4174 / Jun 2016	100.8	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240	8039 / 9\30\2019	240	

Instrument Calibration Log

Site Name, Location: BMS. Humacao
Instrument Model: YSI 556 MPS
Personnel: N. Rivera
Instrument Serial #: 14L101340, YSI 030468 (Pine)

Day #: ~~3~~ 4 Date: March 7, 2016 Time: 1000

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
7.68 / 27		100.7 % 763 mmHg

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard	5GH467/8\31\2017	4.00	
7.0 Standard	5GI006/9\31\2017	7.00	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413	5G1101\9/30/2016	1413	

Turbidity La Motte 2020 we S/N 3460-2313

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard	DI water	0.00	
100 Standard	A4174 / June 2016	~~100.01~~ 100.1	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240	8039/9\30\2019	240	

Day #: ~~4~~ 5 Date: March 8, 2016 Time: 1030

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
7.85 / 27		765 mmHg / 100.7 %

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard	5GH467/8\31\2017	4.00	
7.0 Standard	5GI006/9\31\2017	7.00	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413	5G1101/9\30\2016	1413	

Turbidity La Motte 2020 we S/N 3460-2313

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard	DI water	0.01	
100 Standard	A4174/June 2016	100.4	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240	8039/9\30\2019	240	

Day #: 6 Date: March 9 2016 Time: 0735

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
7.85 / 29		765 mmHg / ~~99.87~~ 99.98 % 765 mmHg

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard	5GH467/8\31\2017	4.00	
7.0 Standard	5GI006/9\31\2017	7.00	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413	5G1101/9\30\2016	1413	

Turbidity La Motte 2020 we S/N 3460-2313

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard	DI water	0.00	
100 Standard	A4174/June 2016	100.0	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240	8039/9\30\2019	240	

Instrument Calibration Log

Site Name, Location: BMS HUMACAO
Instrument Model: YSI 556 MPS

Personnel: N. Rivera
Instrument Serial #: 14L101346 YSI

Day #: 7 Date: march 11, 2016 Time: 0939

7

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
~~765~~ 777		765 / 100.6%

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard		4.0	
7.0 Standard		7.0	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413		1413	

Turbidity La M

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard		-0.46	
100 Standard		100.5	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240		240	

Day #: 8 Date: march 14 2016 Time: 0745

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
496 / 29.05		765 mmHg / 100.6%

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard	5GH467 / 8\31\2017	4.0	
7.0 Standard	5GI006 / 8\31\2017	7.0	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413	5G1101 / 9\30\2016	1413	

Turbidity La Motte 2020 we S/N 3640-2313

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard	DI water	-0.11	
100 Standard	A4174 / June 2016	100.2	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240	8039 / 9/30/2019	240	

Day #: 9 Date: march 15, 2016 Time: 0718

DO

DO Reading (mg/L) / Temp (°C)	Stabilization Range (+/- 0.02) mg/l)	Comments
798		765 / 100.7%

pH

Calibration Solutions	Lot # / Expiration Date	Stabilization Range (+/- 0.2 units)	Comments
4.0 Standard	5GH467 / 8-31-17	4.0	
7.0 Standard	5G1006 / 9-30-17	7.0	

Specific Conductivity

Calibration Standard (µS/cm)	Lot # / Expiration Date	Stabilization Range (+/- 0.02 µS/cm)	Comments
1413	~~8039 / 9-30-19~~ 5G1101 / 9-30-16	1413	17

Turbidity

Calibration Solution	Lot # / Expiration Date	Stabilization Range (1 NTU)	Comments
0 Standard		0.00	
Standard		100.4	

ORP

Calibration Standard (mV)	Lot # / Expiration Date	Stabilization Range (+/- 20 mV)	Comments
240	8039 / 9-30-19	240	

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.
92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 30468
Description YSI 556
Calibrated 2/26/2016 9:24:09AM

Manufacturer YSI
Model Number 556
Serial Number/ Lot Number 14L101342
Location New Jersey
Department

State Certified
Status Fail
Temp °C 18.3
Humidity % 33

Calibration Specifications

Group # 1
Group Name pH
Stated Accy Plus / Minus
Range Acc % 0.0000
Reading Acc % 0.0000
Plus/Minus 0.20

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
4.00 / 4.00	PH	4.00	PH	4.06	4.00	0.00%	Pass
7.00 / 7.00	PH	7.00	PH	6.94	7.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.03	10.00	0.00%	Pass

Group # 2
Group Name Conductivity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 1.0000
Plus/Minus 0.000

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
1.413 / 1.413	ms/cm	1.413	ms/cm	1.406	1.413	0.00%	Pass

Group # 3
Group Name ORP
Stated Accy Plus / Minus
Range Acc % 0.0000
Reading Acc % 0.0000
Plus/Minus 20.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.00 / 240.00	mv	240.00	mv	233.60	240.00	0.00%	Pass

Group # 4
Group Name Dissolved Oxygen Span
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 2.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	%	100.00	%	98.60	100.00	0.00%	Pass

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 30468
Description YSI 556
Calibrated 2/26/2016 9:24:09AM

Test Instruments Used During the Calibration **(As Of Cal Entry Date)**

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
NJ COND 1413: 5GI101	1413 conductivity standard	AquaPhoenix Scientific	1413	5GI101	1/14/2016	9/30/2016
NJ ORP 240 MV: 8039	ORP solution 240mv	Hanna	240Mv	8039	6/30/2015	9/30/2019
NJ PH 10: 5GH140	BUFFER, PH10 BLUE	AquaPhoenix Scientific	PH10	5GH140	12/8/2015	8/31/2017
NJ PH 4: 5GH467	BUFFER, PH4 RED	AquaPhoenix Scientific	PH4	5GH467	1/6/2016	8/31/2017
NJ PH7: 5GI006	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	5GI006	1/6/2016	9/30/2017

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated William Bass

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance