



Appendix B – BWSC Transmittal Form
(to be included in paper copy following eDEP submittal of final version)



Appendix C – Sampling Logs

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID M13-MW-274
 SAMPLE ID M13-MW-374 SITE TYPE Industrial DATE 3/20/14
 TIME START 958 END _____ JOB NUMBER 0146790000 BOTTLE TIME 1030

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID M13-MW-374 DP
 INITIAL DEPTH TO WATER 6.01 FT.
 FINAL DEPTH TO WATER 6.04 FT.
 DRAWDOWN VOLUME 0.0645 GAL.
 (initial - final x 0.16 [2-inch] or x 0.65 [4-inch])
 TOTAL VOL. PURGED 1.2 GAL.
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE _____ FT.
 WELL DEPTH (TOR) 22.57 FT.
 SCREEN LENGTH _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 50.01

PID AMBIENT AIR _____ PPMV
 PID WELL MOUTH _____ PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: CAP _____ YES NO N/A
 CASING LOCKED _____
 COLLAR _____

DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
958	6.01	150	-start purge						25	
1008	6.04	150	8.38	261	6.85	0.61	5.50	1.3		
1013	6.04	150	8.94	258	6.84	0.27	5.03	-15.1		
1018	6.04	150	9.39	257	6.84	0.21	4.97	-27		
1023	6.04	150	9.35	254	6.83	0.23	4.93	-32		
1028	6.04	150	9.69	254	6.83	0.25	4.90	-31		
1030	collected	sample								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOC	8260	HCl	3x40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO
 NUMBER OF GALLONS GENERATED 1.5

SIGNATURE: [Signature]

NOTES:

amec

Prepared by:
Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-702B
 SAMPLE ID: MW-702B
 SITE TYPE: Industrial
 DATE: 3-20-14
 TIME START: 10:18 END: 11:35
 JOB NUMBER: 0146790000
 BOTTLE TIME: 11:30

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID: /

MEASUREMENT POINT: TOP OF WELL RISER, TOP OF PROTECTIVE CASING, OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): / FT.

PROTECTIVE CASING / WELL DIFFERENCE: / FT.

INITIAL DEPTH TO WATER: 12.81 FT.

WELL DEPTH (TOR): 38.43 FT.

PID AMBIENT AIR: / PPMV

WELL DIAMETER: 2 IN.

FINAL DEPTH TO WATER: 13.58 FT.

SCREEN LENGTH: / FT.

PID WELL MOUTH: / PPMV

WELL INTEGRITY: YES NO N/A
 CAP:
 CASING LOCKED:
 COLLAR:

DRAWDOWN VOLUME: 0.13 GAL.
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.03

PRESSURE TO PUMP: N/A PSI

REFILL TIMER SETTING: N/A SEC.

TOTAL VOL. PURGED: 4.17 GAL.
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
10:18	Begin purge @			250 ml/min						
10:30	13.39	250	9.64	280	6.72	2.78	55.3	63.1	37	
11:12	13.58	250	11.56	239	6.41	0.88	34.0	120.5		
11:17	13.58	250	11.63	239	6.41	0.91	38.2	120.7		
11:22	13.58	250	11.63	239	6.41	0.92	37.9	120.0		
11:27	13.58	250	11.64	239	6.41	0.92	37.2	121.9		
11:30	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP

TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)

TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)

TYPE OF BLADDER MATERIAL: TEFLON, OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VOCs 8260B	HCL	3 x 40 ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO

NUMBER OF GALLONS GENERATED: 4

SIGNATURE: *[Signature]*

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7065
 SAMPLE ID: MW-7065, MW-7065 DUP
 SITE TYPE: Industrial
 DATE: 3-19-14 / 3-20-14
 TIME START: 12:30 END: 2:50
 JOB NUMBER: 0146790000
 BOTTLE TIME: 2:40

WATER LEVEL / PUMP SETTINGS
 MEASUREMENT POINT: TOP OF WELL RISER
 INITIAL DEPTH TO WATER: 3.92 FT.
 FINAL DEPTH TO WATER: 6.34 FT.
 DRAWDOWN VOLUME: 2100 GAL
 TOTAL VOL. PURGED: 22 GAL
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.85
 PROTECTIVE CASING STICKUP (FROM GROUND): / FT.
 PROTECTIVE CASING / WELL DIFFERENCE: / FT.
 PID AMBIENT AIR: / PPMV
 PID WELL MOUTH: / PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.
 WELL DIAMETER: 2 IN.
 WELL INTEGRITY: CAP YES NO N/A
 CASING LOCKED
 COLLAR

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
12:37	Begin purging @	850		850	ML/min					well does not recharge adequately.
12:42	7.50	850								
12:47	9.28	850								
12:52	11.03	850								
12:57	12.90	850								
13:01	well dry									
3-20 8:25	3.58	400	7.37	425	6.56	1.56	303	234.8	14'	later time
8:30	5.95	400	6.86	306	6.12	0.95	220	207.2		
8:35	6.34	400	6.61	286	6.15	0.93	192	185.1		
8:40	Sample for VOCs, Arsenic (dissolved) DUP collected									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: GEOPUMP
 TYPE OF TUBING: LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VOCs	HCL	3 x 40ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Arsenic (dissolved) (Field filtered)	HNO3	1 x 50ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 22

NOTES:

 Prepared by:
 Checked by:

SIGNATURE: *[Signature]*

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7095
 SAMPLE ID: MW-7095
 SITE TYPE: Industrial
 DATE: 3/20/14
 TIME START: 8:15 END: _____
 JOB NUMBER: 0146790000
 BOTTLE TIME: 9:45

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: _____
 INITIAL DEPTH TO WATER: 2.49 FT.
 FINAL DEPTH TO WATER: 2.81 FT.
 DRAWDOWN VOLUME: 0.05 GAL
 TOTAL VOL PURGED: 2.8 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____
 WELL DEPTH (TOR): 14.86 FT.
 SCREEN LENGTH: _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.02

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.
PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.
 PID AMBIENT AIR: _____ PPMV
 PID WELL MOUTH: _____ PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
WELL INTEGRITY:
 CAP: YES NO _____ N/A _____
 CASING LOCKED: YES NO _____ N/A _____
 COLLAR: YES NO _____ N/A _____
 DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
8:15	2.49	120	8.02	478	6.33	1.97	32.2	208	12	start purge
8:33	2.81	120	8.07	451	6.29	0.61	25.7	202		
8:43	2.81	120	8.11	432	6.28	0.61	21.0	194		
8:53	2.81	120	8.09	427	6.28	0.38	19.0	181		
9:13	2.81	120	8.11	426	6.28	0.30	15.1	161		
9:23	2.81	120	8.10	425	6.28	0.31	13.2	149		
9:28	2.81	120	8.20	425	6.28	0.28	11.1	145		
9:33	2.81	120	8.22	423	6.28	0.20	10.2	142		
9:38	2.81	120	8.01	424	6.28	0.24	10.7	150		
9:43	2.81	120	8.00	424	6.27	0.18				
9:45	collect	sample								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER _____

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOC	8260	HCl	3x40 ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 3.0
 SIGNATURE: *[Signature]*

NOTES:

amec
 Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7145
 SAMPLE ID: MW-7145
 SITE TYPE: Industrial
 DATE: 3/20/14
 TIME START: 1048 END: _____
 JOB NUMBER: 0146790000
 BOTTLE TIME: 1146

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID: _____

MEASUREMENT POINT:
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.

INITIAL DEPTH TO WATER: 7.10 FT.
 FINAL DEPTH TO WATER: 7.90 FT.
 WELLS DEPTH (TOR): 12.75 FT.
 SCREEN LENGTH: _____ FT.
 DRAWDOWN VOLUME: _____ GAL
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: _____
 TOTAL VOL. PURGED: _____ GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PID AMBIENT AIR: _____ PPMV
 PID WELL MOUTH: _____ PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP: / / /
 CASING LOCKED: / / /
 COLLAR: / / /

DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1048	7.10	120	start purge						10	
1058	7.75	120	5.94	72	6.55	2.25	24.3	11		
1108	7.80	120	6.83	192	6.85	1.22	8.76	-25		
1118	7.90	120	6.94	208	6.96	0.68	5.21	-67		
1123	7.90	120	7.28	226	7.27	0.53	4.77	-91		
1128	7.90	120	7.28	236	7.00	0.45	3.49	-97		
1133	7.90	120	7.41	235	7.02	0.37	3.29	-98		
1138	7.90	120	7.40	236	7.03	0.41	3.04	-100		
1140	collect sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP

TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)

TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)

TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected: VOC

METHOD NUMBER: 8260

PRESERVATION METHOD: HCl

VOLUME REQUIRED: 3 x 40ml

SAMPLE COLLECTED:

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO

NUMBER OF GALLONS GENERATED: _____

SIGNATURE: _____

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: NP-MW-601
 SAMPLE ID: NP-MW-601
 SITE TYPE: Industrial
 DATE: 3-20-14
 TIME START: 9:10 END: 10:00
 JOB NUMBER: 0148790000
 BOTTLE TIME: 9:55

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: /
 INITIAL DEPTH TO WATER: 13.95 FT.
 FINAL DEPTH TO WATER: 14.83 FT.
 DRAWDOWN VOLUME: 0.14 GAL.
 TOTAL VOL. PURGED: 2.64 GAL.
 MEASUREMENT POINT: TOP OF WELL RISER, TOP OF PROTECTIVE CASING, OTHER: /
 PROTECTIVE CASING STICKUP (FROM GROUND): / FT.
 PROTECTIVE CASING / WELL DIFFERENCE: / FT.
 WELL DEPTH (TOR): 28.51 FT.
 SCREEN LENGTH: / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.05
 PID AMBIENT AIR: / PPMV
 PID WELL MOUTH: / PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.
 WELL DIAMETER: 2 IN.
 WELL INTEGRITY: CAP YES NO N/A, CASING LOCKED YES NO N/A, COLLAR YES NO N/A
 DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
9:10	Begin purge @			275					220	
9:14	14.62	275	9.21	202	6.27	0.80	30.8	115.1		
9:19	14.46	225	9.62	201	6.29	1.16	47.0	118.8		
9:24	14.68	200	9.76	200	6.31	4.45	14.3	118.1		
9:43	14.78	200	9.91	200	6.30	0.98	4.57	151.7		
9:48	14.81	200	9.95	200	6.30	0.97	3.26	147.2		
9:53	14.83	200	9.96	200	6.30	0.98	3.22	144.7		
9:55	Sample for Vals									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	82608	WCI	3 x 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 2.6
 SIGNATURE: [Signature]

NOTES:
 amec
 Prepared by: [Signature]
 Checked by: [Signature]

DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT **Baker Hughes- Bird Machine**

SAMPLE ID **LR-MW-21**

WELL ID **LR-MW-21**

TIME START **8:15** END **10:15**

SITE TYPE **Industrial**

DATE **6-10-14**

JOB NUMBER **0146790000**

BOTTLE TIME **10:15**

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID **Dep**

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT.

PROTECTIVE CASING / WELL DIFFERENCE _____ FT.

INITIAL DEPTH TO WATER **2.51** FT.

WELL DEPTH (TOR) **21.95** FT.

PID AMBIENT AIR _____ PPMV

WELL DIAMETER **2** IN.

FINAL DEPTH TO WATER **2.60** FT.

SCREEN LENGTH _____ FT.

PID WELL MOUTH _____ PPMV

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN VOLUME **0.01** GAL.
(initial - final x 0.16 (2-inch) or x 0.65 (4-inch))

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED **0.00**

PRESSURE TO PUMP **N/A** PSI

CASING LOCKED COLLAR

TOTAL VOL. PURGED **5.0** GAL.
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

REFILL TIMER SETTING **N/A** SEC.

DISCHARGE TIMER SETTING **N/A** SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
8:15	2.51	160	15.70	320	6.25	0.39	4.45	214	18	
8:25	2.60	160	15.57	288	6.31	0.50	4.01	214		
8:30	2.60	160	15.56	250	6.32	0.39	3.15	211		
8:35	2.60	160	15.45	251	6.32	0.36	2.52	207		
8:40	2.60	160	15.49	251	6.33	0.31	2.05	204		
8:45	2.60	160	15.54	250	6.34	0.30	1.97	193		
8:50	2.60	160	15.73	250	6.35	0.41	1.92	186		
8:55	2.60	160	15.77	250	6.35	0.47	1.87	160		
09:00	2.60	160	15.91	251	6.36	0.44	1.93	169		
09:05	2.60	160	16.05	251	6.37	0.21	2.11	163		
09:10	2.60	160	16.12	251	6.37	0.27	2.01	146		
09:15	2.60	160	16.06	252	6.35	0.15	1.97	109		
09:20	2.60	160	16.15	253	6.39	0.17	1.95	77		
09:25	2.60	160	16.25	253	6.39	0.21	1.20	21		
09:30	2.60	160	16.33	257	6.39	0.21	1.51	212		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- QED BLADDER
- SIMCO BLADDER
- GEOPUMP

TYPE OF TUBING

- TEFLON OR TEFLON LINED
- HIGH DENSITY POLYETHYLENE
- LDPE (Dedicated)

TYPE OF PUMP MATERIAL

- POLYVINYL CHLORIDE
- STAINLESS STEEL
- SILICON (Dedicated)

TYPE OF BLADDER MATERIAL

- TEFLON
- OTHER

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	dissolved As	60103	AN03	1x250ml
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED **5.0**

NOTES:
 Pg. 1
 Dup-01 @ 10:15

SIGNATURE:



Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: CR-MW-121
 SAMPLE ID: CR-MW-121
 SITE TYPE: Industrial
 DATE: 6/10/15
 TIME START: 815 END: 1015
 JOB NUMBER: 0146790000
 BOTTLE TIME: 1015

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID: Dup
 MEASUREMENT POINT: TOP OF WELL RISER
 INITIAL DEPTH TO WATER: 2.50 FT.
 WELL DEPTH (TOR): 2.98 FT.
 FINAL DEPTH TO WATER: 2.60 FT.
 SCREEN LENGTH: — FT.
 DRAWDOWN VOLUME: 0.01 GAL
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 00.01
 TOTAL VOL PURGED: 5.00 GAL
 PROTECTIVE CASING STICKUP (FROM GROUND): — FT.
 PROTECTIVE CASING / WELL DIFFERENCE: — FT.
 PID AMBIENT AIR: — PPMV
 WELL DIAMETER: 2 IN.
 PID WELL MOUTH: — PPMV
 WELL INTEGRITY: YES NO N/A
 CAP:
 LOCKED:
 COLLAR:
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.
 DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
0940	2.60	160	16.20	254	6.35	0.17	1.25	-92	18	
0945	2.60	160	16.29	254	6.39	0.06	1.01	-82		
0950	2.60	160	16.49	254	6.40	0.15	0.80	-63		
0955	2.60	160	16.24	256	6.41	0.34	0.80	-118		
1000	2.60	160	16.23	256	6.42	0.26	0.88	-99		
1005	2.60	160	16.62	255	6.42	0.25	0.87	-108		
1010	2.60	160	16.64	256	6.42	0.23	0.78	-124		
1015	2.60	160	16.67	259	6.42	0.24	0.88	-91		
2 hr 1 min. - ORP not stable - collect sample										
collect Dup										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS

To Be Collected: dissolved AS
 METHOD NUMBER: 60603
 PRESERVATION METHOD: HNO3
 VOLUME REQUIRED: 1 x 250ml
 SAMPLE COLLECTED:

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: _____

SIGNATURE: *[Signature]*

NOTES:
 Dup-01 e1015 P5.2

amec

Prepared by: _____
 Checked by: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID LR-MW-122
 SAMPLE ID LR-MW-122 SITE TYPE Industrial DATE 6/10/17
 TIME START 805 END _____ JOB NUMBER 0146790000 BOTTLE TIME 1245

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID _____ MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____ PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE _____ FT.

INITIAL DEPTH TO WATER 3.33 FT. WELL DEPTH (TOR) 6.63 FT. PID AMBIENT AIR _____ PPMV WELL DIAMETER 2 IN.
 FINAL DEPTH TO WATER _____ FT. SCREEN LENGTH _____ FT. PID WELL MOUTH _____ PPMV WELL INTEGRITY: CAP YES NO N/A
 DRAWDOWN VOLUME _____ GAL. RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED _____ PRESSURE TO PUMP N/A PSI DISCHARGE TIMER SETTING _____ SEC.
 TOTAL VOL. PURGED _____ GAL. REFILL TIMER SETTING N/A SEC.

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
805	3.33	- start								drain down for recharge
811		- well dry								
1239	3.39	- collect								one reading and recharge sample
1243	4.53		19.17	307	6.76	1.67	17.1	-17		
1245		- collect								recharge

EQUIPMENT DOCUMENTATION

TYPE OF PUMP QED BLADDER SIMCO BLADDER GEOPUMP
TYPE OF TUBING TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
TYPE OF PUMP MATERIAL POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
TYPE OF BLADDER MATERIAL TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> dissolved As	601013	HNO3	1x250ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED _____

SIGNATURE: [Signature]

NOTES:



Prepared by: _____
 Checked by: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: CR-Mu-127
 SAMPLE ID: CR-Mu-127
 SITE TYPE: Industrial
 DATE: 6/6/14
 TIME START: 13:22 END: _____
 JOB NUMBER: 0146790000
 BOTTLE TIME: 1450

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID: _____
 MEASUREMENT POINT: TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____
 INITIAL DEPTH TO WATER: 3.57 FT.
 FINAL DEPTH TO WATER: 4.49 FT.
 DRAWDOWN VOLUME (initial - final x 0.16 (2-inch) or x 0.65 (4-inch)): 6.15 GAL.
 TOTAL VOL. PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml): 2.9 GAL.
 PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.
 WELL DEPTH (TOR): 7.0 FT.
 PID AMBIENT AIR: _____ PPMV
 PID WELL MOUTH: _____ PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.
 WELL DIAMETER: 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP: _____
 CASING LOCKED: _____
 COLLAR: _____
 DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1322	3.57	120								
1333	4.49	120	17.43	163	6.92	0.61	38.5	-96	6.0	
1343	4.49	120	17.71	157	6.87	0.20	25.8	-129		
1353	4.49	120	18.14	154	6.87	0.22	17.8	-111		
1358	4.49	120	16.87	153	6.85	0.17	20.1	-157		
1403	4.49	120	16.90	153	6.85	0.15	19.3	-158		
1408	4.49	120	16.80	152	6.86	0.16	18.3	-148		
1413	4.49	120	16.86	152	6.81	0.16	15.1	-131		
1418	4.49	120	16.84	153	6.88	0.16	13.7	-145		
1423	4.49	120	16.90	153	6.89	0.15	13.0	-144		
1428	4.49	120	16.97	154	6.90	0.15		-162		
1433	4.49	120	16.98	154	6.90	0.15	9.25	-165		
1438	4.49	120	17.04	154	6.91	0.15	7.54	-169		
1443	4.49	120	17.12	154	6.92	0.14	6.88	-174		
1448	4.49	120	16.80	155	6.92	0.14	6.85	-178		
1450	collect	Sand								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOC	P260	Hcl	3x40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 3

NOTES:

SIGNATURE: _____



Prepared by:
Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: LR-mw-129
 SAMPLE ID: LR-mw-129
 SITE TYPE: Industrial
 DATE: 6/10/14
 TIME START: 1500 END: 1625
 JOB NUMBER: 0148790000
 BOTTLE TIME: 1620

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: _____
 INITIAL DEPTH TO WATER: 2.43 FT.
 FINAL DEPTH TO WATER: 2.50 FT.
 DRAWDOWN VOLUME (Initial - final x 0.16 (2-inch) or x 0.65 (4-inch)): 0.01 GAL
 TOTAL VOL PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml): 2.5 GAL

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.
 WELL DEPTH (TOR): 25.32 FT.
 SCREEN LENGTH: _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 40.01

PID AMBIENT AIR: _____ PPMV
 PID WELL MOUTH: _____ PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP: / / /
 CASING LOCKED: / / /
 COLLAR: / / /
 DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1500	2.43	120	17.90	308	6.74	0.18	51.1	-89	22	
1510	2.50	120	17.47	307	6.75	0.15	34.9	-165		
1520	2.50	120	17.32	309	6.74	0.16	25.0	-174		
1530	2.50	120	17.27	310	6.74	0.12	26.7	-208		
1540	2.50	120	17.29	309	6.74	0.11	18.3	-209		
1550	2.50	120	17.25	309	6.74	0.12	19.5	-207		
1555	2.50	120	17.33	308	6.74	0.12	17.3	-202		
1600	2.50	120	17.32	311	6.73	0.13	12.8	-193		
1605	2.50	120	17.05	312	6.73	0.13	13.0	-203		
1610	2.50	120	17.34	310	6.73	0.13	13.1	-202		
1615	2.50	120								
1620	collected	sample								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected: VOC
 METHOD NUMBER: 8260B
 PRESERVATION METHOD: HCL
 VOLUME REQUIRED: 3x400ml
 SAMPLE COLLECTED:

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 2

SIGNATURE: _____

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: M3-MW-366
 SAMPLE ID: M3-MW-360
 SITE TYPE: Industrial
 DATE: 6/12/19
 TIME START: 1022 END: _____
 JOB NUMBER: 0146790000
 BOTTLE TIME: 1130

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: _____
 INITIAL DEPTH TO WATER: 4.94 FT.
 FINAL DEPTH TO WATER: 5.21 FT.
 DRAWDOWN VOLUME: 0.12 GAL.
 TOTAL VOL PURGED: 2.3 GAL.
MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____
 WELL DEPTH (TOR): 11.87 FT.
 SCREEN LENGTH: _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.05
PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.
PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.
 PID AMBIENT AIR: _____ PPMV
 PID WELL MOUTH: _____ PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.
WELL DIAMETER: 2 IN.
WELL INTEGRITY:
 YES NO N/A
 CAP _____
 CASING _____
 LOCKED _____
 COLLAR _____
DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1022	4.94	130	11.82	190	6.34	0.34	103	-126	10	
1032	5.55	130	12.02	189	6.24	0.24	88.5	-81		
1042	5.65	130	12.17	171	6.08	0.76	50.3	-77		
1102	5.71	130	12.19	159	5.97	1.46	18.8	-82		
1112	5.71	130	12.36	131	5.85	2.80	5.56	-47		
1127	5.21	130	12.46	122	5.82	3.00	3.75	-44		
1122	5.21	130	12.59	119	5.82	3.02	3.35	-42		
1127	5.71	130	12.26	117	5.86	3.05	5.31	-41		
1130	collect sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOC	82603	AC	3x400	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES (NO)
 NUMBER OF GALLONS GENERATED: 2

SIGNATURE: _____

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: M13-MW-361
 SAMPLE ID: M13-MW-361
 SITE TYPE: Industrial
 DATE: 6/12/17
 TIME START: 8:58 END: 10:05
 JOB NUMBER: 0146790000
 BOTTLE TIME: 1005

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID: _____

MEASUREMENT POINT: TOP OF WELL RISER, TOP OF PROTECTIVE CASING, OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.

PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.

INITIAL DEPTH TO WATER: 5.40 FT.

WELL DEPTH (TOR): 24.5 FT.

PID AMBIENT AIR: _____ PPMV

WELL DIAMETER: 2 IN.

FINAL DEPTH TO WATER: 7.64 FT.

SCREEN LENGTH: _____ FT.

PID WELL MOUTH: _____ PPMV

WELL INTEGRITY: CAP YES NO N/A, CASING LOCKED YES NO N/A, COLLAR YES NO N/A

DRAWDOWN VOLUME: 0.36 GAL
 (initial - final x 0.18 (2-inch) or x 0.65 (4-inch))

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.2

PRESSURE TO PUMP: N/A PSI

TOTAL VOL. PURGED: 1.9 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

REFILL TIMER SETTING: N/A SEC.

DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
858	5.40	120							23	
910	6.83	120	12.24	143	6.54	0.41	15.8	7.9		
920	7.60	120	11.61	188	6.53	0.29	10.7	-74		
0930	7.59	120	12.36	185	6.82	0.35	15.3	-103		
0940	7.59	120	12.45	185	6.83	0.32	15.2	-113		
950	7.61	120	11.80	171	6.51	0.27	17.6	-114		
0955	7.63	120	12.08	181	6.52	0.32	14.5	-114		
1000	7.64	120	11.55	176	6.51	0.35	13.8	-121		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP

TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)

TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)

TYPE OF BLADDER MATERIAL: TEFLON, OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	2260 ucl	HCl	3x40ml	<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 2

SIGNATURE: _____

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MB-MW-362
 SAMPLE ID MB-MW-362 SITE TYPE Industrial DATE 6-13-14
 TIME START 7:45 END 9:10 JOB NUMBER 0146790000 BOTTLE TIME 9:05

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID
 INITIAL DEPTH TO WATER 2.18 FT.
 FINAL DEPTH TO WATER 2.27 FT.
 DRAWDOWN VOLUME 0.01 GAL
 (Initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED 5.61 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT.
 PROTECTIVE CASING / WELL DIFFERENCE FT.
 WELL DEPTH (TOR) 19.52 FT.
 SCREEN LENGTH FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 20.01
 PID AMBIENT AIR PPMV
 PID WELL MOUTH PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
8:01	2.25	250	14.27	319	6.51	0.34	0.82	200.7	18.5	
8:06	2.26	250	14.19	256	6.55	0.34	0.53	208.3		
8:11	2.26	250	14.02	250	6.55	0.49	0.51	200.6		
8:20	2.27	250	14.11	243	6.55	0.65	0.49	93.7		
8:53	2.27	250	14.05	242	6.54	0.45	0.38	-18.2		
8:58	2.27	250	13.97	243	6.52	0.43	0.36	-20.1		
9:03	2.27	250	13.97	243	6.52	0.34	0.39	-23.7		
9:05	2.27	250								
	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	8260	HCl	3 + 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED YES NO
 NUMBER OF GALLONS GENERATED 0

SIGNATURE:

NOTES:

amec
 Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MB-MW-363
 SAMPLE ID MB-MW-363 SITE TYPE Industrial DATE 6-13-14
 TIME START 9:10 END 9:47 JOB NUMBER 0146790000 BOTTLE TIME 9:45

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) FT. PROTECTIVE CASING / WELL DIFFERENCE FT.

INITIAL DEPTH TO WATER 2.06 FT. WELL DEPTH (TOR) 7.45 FT. PID AMBIENT AIR PPMV WELL DIAMETER 2 IN.

FINAL DEPTH TO WATER 2.42 FT. SCREEN LENGTH FT. PID WELL MOUTH PPMV WELL INTEGRITY: YES NO N/A
 CAP
 LOCKED
 COLLAR

DRAWDOWN VOLUME 0.06 GAL. RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.02 PRESSURE TO PUMP N/A PSI REFILL TIMER SETTING N/A SEC. DISCHARGE TIMER SETTING N/A SEC.

TOTAL VOL. PURGED 2.44 GAL. (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
9:12	Begin purge @ 250 ml/min									
9:13	2.21	250	17.51	99	6.64	1.69	15.9	-21.9	7	
9:23	2.36	250	18.89	97	6.57	1.02	4.57	-32.4		
9:28	2.39	250	18.97	98	6.57	0.80	4.34	-37.0		
9:33	2.40	250	19.04	99	6.57	0.47	3.92	43.9		
9:38	2.41	250	19.08	99	6.57	0.47	3.22	-50.3		
9:43	2.42	250	19.09	99	6.57	0.42	3.09	-51.1		
9:45	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	8260	HCL	3+4ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 0

NOTES:

SIGNATURE: [Signature]



Prepared by:
Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID M3-M4-371
 SAMPLE ID M3-M4-371 SITE TYPE Industrial DATE 6/6/14
 TIME START 1030 END _____ JOB NUMBER 0146790000 BOTTLE TIME 123

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID _____
 INITIAL DEPTH TO WATER 3.15 FT.
 FINAL DEPTH TO WATER 3.25 FT.
 DRAWDOWN VOLUME 0.07 GAL
 (Initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED 4.1 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE _____ FT.
 WELL DEPTH (TOR) 9.91 FT.
 SCREEN LENGTH _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.01

PID AMBIENT AIR _____ PPMV
 PID WELL MOUTH _____ PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 4 IN.
 WELL INTEGRITY: YES NO N/A
 CAP _____
 CASING _____
 LOCKED _____
 COLLAR _____
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1030	3.15	140	-start purg							
1040	3.25	140	20.46	80	6.52	5.13	92.0	-12		
1100	3.25	140	19.95	81	6.51	4.84	92.2	-28		
1115	3.25	140	19.54	80	6.51	4.80	95.1	-37		
1130	3.25	140	19.51	81	6.50	4.91	96.6	-40		
1204	3.25	140	19.31	94	6.48	4.15	83.4	-51		
1214	3.25	140	18.77	97	6.48	4.38	79.2	-53		
1224	3.25	140	18.44	99	6.47	4.23	76.2	-51		
1230	3.25	140	18.29	102	6.47	4.19	74.3	-53		
1230	collected sample		2 hrs	1 m ft	-Turbidity		not stable			

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER _____

ANALYTICAL PARAMETERS
 To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> dissolved As	60103	HA03	1x250ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO
 NUMBER OF GALLONS GENERATED 4

SIGNATURE: _____

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MB-MW-374
 SAMPLE ID MB-MW-374 SITE TYPE Industrial DATE 6-13-14
 TIME START 9:54 END 10:37 JOB NUMBER 0146790000 BOTTLE TIME 10:39

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID
 INITIAL DEPTH TO WATER 7.14 FT.
 FINAL DEPTH TO WATER 7.26 FT.
 DRAWDOWN VOLUME 0.02 GAL.
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED 2.84 GAL.
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____
 WELL DEPTH (TOR) 28.55 FT.
 SCREEN LENGTH FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 60.01

PROTECTIVE CASING STICKUP (FROM GROUND) FT.
PROTECTIVE CASING / WELL DIFFERENCE FT.
 PID AMBIENT AIR PPMV
 PID WELL MOUTH PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
WELL INTEGRITY: YES NO N/A
 CAP X
 CASING LOCKED X
 COLLAR X

DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
9:54	Begin purge @	250 ml/min		222	6.65	1.45	3.46	-149.2	28	
9:58	7.19	250	15.28	222	6.65	1.45	3.46	-149.2		
10:03	7.24	250	14.91	222	6.63	0.42	3.21	-139.5		
10:08	7.25	250	14.89	228	6.65	0.38	2.86	-111.9		
10:18	7.25	250	14.82	242	6.67	0.44	2.15	-95.4		
10:23	7.26	250	14.81	244	6.67	0.28	1.62	-89.8		
10:28	7.26	250	14.84	245	6.67	0.24	0.93	-89.4		
10:33	7.26	250	14.87	246	6.67	0.28	0.72	-85.1		
10:35	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	8260	HCl	3 x 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO
 NUMBER OF GALLONS GENERATED 0

NOTES:

Prepared by: _____
 Checked by: _____



SIGNATURE: [Signature]

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID NP-MW-601
 SAMPLE ID NP-MW-601 SITE TYPE Industrial DATE 6-9-14
 TIME START 14:23 END 15:40 JOB NUMBER 0146790000 BOTTLE TIME 15:35

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT.
 PROTECTIVE CASING / WELL DIFFERENCE FT.

INITIAL DEPTH TO WATER 15.35 FT.
 FINAL DEPTH TO WATER 16.43 FT.

WELL DEPTH (TOR) 28.47 FT.
 SCREEN LENGTH FT.

PID AMBIENT AIR PPMV
 PID WELL MOUTH PPMV

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP X
 CASING X
 LOCKED X
 COLLAR X

DRAWDOWN VOLUME GAL
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED

PRESSURE TO PUMP N/A PSI

TOTAL VOL PURGED GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

REFILL TIMER SETTING N/A SEC.
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
14:24	16.09	225	13.48	184	6.39	0.55	3.38	27.2	26	
14:36	16.35	225	13.17	183	6.39	0.33	2.07	14.7		
15:16	16.43	225	12.97	184	6.39	0.22	1.87	-18.7		
15:21	16.43	225	13.08	184	6.39	0.24	0.96	-25.2		
15:26	16.43	225	13.02	183	6.39	0.24	0.92	-27.2		
15:31	16.43	225	13.04	182	6.39	0.27	0.82	-26.5		
15:35	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VOCs 8260	HC1	3 + 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NUMBER OF GALLONS GENERATED 0

SIGNATURE:

NOTES:

amec

Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID NP-MW-602
 SAMPLE ID NP-MW-602 SITE TYPE Industrial DATE 6-12-14
 TIME START 8:07 END 10:00 JOB NUMBER 0146790000 BOTTLE TIME 9:55

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID DUP-3 MEASUREMENT POINT TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

INITIAL DEPTH TO WATER 10.21 FT. PROTECTIVE CASING STICKUP (FROM GROUND) FT.
 FINAL DEPTH TO WATER 10.23 FT. PROTECTIVE CASING / WELL DIFFERENCE FT.
 DRAWDOWN VOLUME 60.01 GAL. RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 60.01
 (initial - final x 0.18 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED 6.72 GAL. REFILL TIMER SETTING N/A SEC.

PID AMBIENT AIR PPMV
 PID WELL MOUTH PPMV
 PRESSURE TO PUMP N/A PSI
 DISCHARGE TIMER SETTING N/A SEC.

WELL DEPTH (TOR) 17.59 FT.
 SCREEN LENGTH FT.
 WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP 2
 LOCKED 2
 COLLAR 2

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
8:22	10.22	225	11.72	320	6.07	8.81	10.7	212.6	17	
8:32	10.22	225	11.34	165	6.11	7.68	5.40	200.2		MS/MSD
8:37	10.22	225	11.38	146	6.12	7.92	4.22	172.2		add DUP-3
8:56	10.23	225	11.59	132	6.14	7.15	1.32	138.0		collected
9:01	10.23	225	11.70	132	6.14	7.11	0.96	111.2		
9:41	10.23	225	11.81	134	6.15	7.45	0.69	49.7		
9:46	10.23	225	11.77	134	6.15	7.29	0.51	46.6		
9:51	10.23	225	11.77	134	6.15	7.16	0.48	42.5		
9:55	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS

To Be Collected:

METHOD NUMBER: 8260 PRESERVATION METHOD: 14C1 VOLUME REQUIRED: 3 x 40ml SAMPLE COLLECTED:

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 0

SIGNATURE: [Signature]

NOTES:



Prepared by: _____
 Checked by: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID NP-MW-603
 SAMPLE ID NP-MW-603 SITE TYPE Industrial DATE 6-10-14 / 15-11
 TIME START 8:00 END _____ JOB NUMBER 0146790000 BOTTLE TIME 15:40

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID _____ MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

INITIAL DEPTH TO WATER 10.01 FT. PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT. PROTECTIVE CASING / WELL DIFFERENCE _____ FT.
 FINAL DEPTH TO WATER _____ FT. WELL DEPTH (TOR) 23.83 FT. PID AMBIENT AIR _____ PPMV WELL DIAMETER _____ IN.
 DRAWDOWN VOLUME _____ GAL. SCREEN LENGTH _____ FT. PID WELL MOUTH _____ PPMV WELL INTEGRITY: YES NO N/A
 (Initial - final x 0.16 (2-inch) or x 0.65 (4-inch)) RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED _____ PRESSURE TO PUMP N/A PSI CASING CAP _____
 TOTAL VOL. PURGED _____ GAL. REFILL TIMER SETTING N/A SEC. DISCHARGE TIMER SETTING N/A SEC. COLLAR _____
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
8:00	10.01	400								Begin purge. will purge dry and collect recharge at later time
8:20	well dry									
15:38	10.55									
15:39	11.06	400	11.17	193	6.88	2.81	5.37	-12.9		
15:40	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP QED BLADDER SIMCO BLADDER GEOPUMP
TYPE OF TUBING TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
TYPE OF PUMP MATERIAL POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
TYPE OF BLADDER MATERIAL TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOC	8160D	Hcl	3x40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED _____

SIGNATURE: _____

NOTES:



Prepared by: _____
 Checked by: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-7005
 SAMPLE ID MW-7005 SITE TYPE Industrial DATE 6-9-14
 TIME START 16:02 END 15:15 JOB NUMBER 0146790000 BOTTLE TIME 15:10

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID / MEASUREMENT POINT TOP OF WELL RISER TOP OF PROTECTIVE CASING OTHER _____ PROTECTIVE CASING STICKUP (FROM GROUND) / FT. PROTECTIVE CASING / WELL DIFFERENCE / FT.

INITIAL DEPTH TO WATER 15.61 FT. WELL DEPTH (TOR) 21.91 FT. PID AMBIENT AIR / PPMV WELL DIAMETER 2 IN.

FINAL DEPTH TO WATER 16.48 FT. SCREEN LENGTH / FT. PID WELL MOUTH / PPMV WELL INTEGRITY: CAP YES NO N/A
 CASKING LOCKED YES NO N/A
 COLLAR YES NO N/A

DRAWDOWN VOLUME ≈ 5 GAL. RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED ≈ 100% PRESSURE TO PUMP N/A PSI REFILL TIMER SETTING N/A SEC. DISCHARGE TIMER SETTING N/A SEC.

TOTAL VOL. PURGED ≈ 5 GAL. (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
6-9-14 16:02	15.61	400							21	well draws down, will purge dry and sample at later time
6-9-14 16:50	well dry									
6-9-14 15:02	16.17									
15:08	16.48	400	14.24	123	6.67	6.33	9.16	8.9		
15:10	sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOCs 8260	HCl	3740 mL	<input checked="" type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 0

SIGNATURE: [Signature]

NOTES:

amec

Prepared by: _____
 Checked by: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7015
 SAMPLE ID: MW-7015
 SITE TYPE: Industrial
 DATE: 6-9-14
 TIME START: 15:45 END: 11:30
 JOB NUMBER: 0146790000
 BOTTLE TIME: 11:25

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: /
 INITIAL DEPTH TO WATER: 16.59 FT.
 FINAL DEPTH TO WATER: 17.27 FT.
 DRAWDOWN VOLUME: 0.1 GAL
 TOTAL VOL. PURGED: 3.54 GAL
 MEASUREMENT POINT: TOP OF WELL RISER
 PROTECTIVE CASING STICKUP (FROM GROUND): / FT.
 PROTECTIVE CASING / WELL DIFFERENCE: / FT.
 WELL DEPTH (TOR): 22.66 FT.
 SCREEN LENGTH: / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.35
 PID AMBIENT AIR: / PPMV
 PID WELL MOUTH: / PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.
 WELL DIAMETER: 2 IN.
 WELL INTEGRITY: CAP YES NO N/A
 CASING LOCKED YES NO N/A
 COLLAR YES NO N/A
 DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
15:46		400							21	pumping well dry
										well does not go dry - will purge and sample at later time
6-10) 10:18	16.64	200								
10:24	16.83	200	14.82	288	6.41	4.03	37.1	204.3		
10:44	17.06	200	13.87	156	6.42	3.76	16.2	119.7		
11:10	17.22	200	13.69	142	6.42	3.57	35.0	67.7		
11:15	17.26	200	13.95	141	6.42	3.72	34.8	59.5		
11:20	17.27	200	13.89	140	6.42	3.78	35.2	59.5		
11:25	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS


To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VOCs 8260	1+Cl	3 x 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 0

SIGNATURE: *[Signature]*

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-702B
 SAMPLE ID MW-702B SITE TYPE Industrial DATE 6-9-14
 TIME START 11:50 END 13:15 JOB NUMBER 0146790000 BOTTLE TIME 13:10

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID / MEASUREMENT POINT TOP OF WELL RISER TOP OF PROTECTIVE CASING OTHER _____

INITIAL DEPTH TO WATER 14.26 FT. PROTECTIVE CASING STICKUP (FROM GROUND) / FT. PROTECTIVE CASING / WELL DIFFERENCE / FT.

FINAL DEPTH TO WATER 15.04 FT. WELL DEPTH (TOR) 38.42 FT. PID AMBIENT AIR / PPMV WELL DIAMETER 2 IN.

DRAWDOWN VOLUME 0.12 GAL. (Initial - final x 0.16 (2-inch) or x 0.65 (4-inch)) SCREEN LENGTH / FT. PID WELL MOUTH / PPMV WELL INTEGRITY: YES NO N/A
 CAP
 LOCKED
 COLLAR

TOTAL VOL. PURGED 5.61 GAL. RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.02 PRESSURE TO PUMP N/A PSI REFILL TIMER SETTING N/A SEC. DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
11:50	14.36	250	Begin purge						35	
12:48	15.03	250	14.06	284	6.33	4.59	3.40	160.6		
12:53	15.04	250	13.45	255	6.44	0.27	2.96	214.7		
12:58	15.04	250	13.34	248	6.46	0.32	3.39	212.7		
13:03	15.04	250	13.34	244	6.46	0.32	2.81	209.3		
13:08	15.04	250	13.40	243	6.47	0.35	2.63	208.2		
13:10	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP

TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)

TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)

TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VOCs 8260	1+1	3 + 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 0

SIGNATURE: [Signature]

NOTES:

amec
Prepared by: _____
Checked by: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-702D
 SAMPLE ID: MW-702D
 SITE TYPE: Industrial
 DATE: 6-9-14
 TIME START: 13:30 END: 14:20
 JOB NUMBER: 0146790000
 BOTTLE TIME: 14:15

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: /
 INITIAL DEPTH TO WATER: 15.06 FT.
 FINAL DEPTH TO WATER: 15.14 FT.
 DRAWDOWN VOLUME: 0.01 GAL.
 TOTAL VOL PURGED: 3.30 GAL.

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): / FT.
PROTECTIVE CASING / WELL DIFFERENCE: / FT.
 WELL DEPTH (TOR): 28.46 FT.
 SCREEN LENGTH: / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 20.01

PID AMBIENT AIR: / PPMV
 PID WELL MOUTH: / PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
 WELL INTEGRITY: CAP YES NO N/A
 CASING LOCKED
 COLLAR
 DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
13:32	15.14	250	13.95	209	6.43	2.12	5.84	130.6	27	
13:37	15.14	250	13.11	208	6.42	1.37	4.04	111.2		
13:50	15.14	250	13.27	210	6.43	1.09	2.68	74.4		
13:55	15.14	250	12.91	211	6.43	1.09	1.85	62.2		
14:00	15.14	250	13.00	209	6.43	1.10	1.62	52.1		
14:05	15.14	250	12.98	209	6.43	1.11	1.40	43.7		
14:10	15.14	250	12.90	209	6.43	1.18	1.33	48.3		
14:15	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VOCs 8260	HCl	3 x 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 0

SIGNATURE: *[Signature]*

NOTES:

Prepared by:
 Checked by:



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-7035
 SAMPLE ID MW-7035 SITE TYPE Industrial DATE 6-10-14
 TIME START 8:33 END _____ JOB NUMBER 0148790000 BOTTLE TIME 15:20

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID /
 INITIAL DEPTH TO WATER 4.75 FT.
 FINAL DEPTH TO WATER _____ FT.
 DRAWDOWN VOLUME _____ GAL
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED _____ GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT.
PROTECTIVE CASING / WELL DIFFERENCE _____ FT.
 WELL DEPTH (TOR) 16.97 FT.
 SCREEN LENGTH _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED _____

PID AMBIENT AIR _____ PPMV
PID WELL MOUTH _____ PPMV
PRESSURE TO PUMP N/A PSI
REFILL TIMER SETTING N/A SEC.

WELL DIAMETER _____ IN.
WELL INTEGRITY: YES NO N/A
 CAP _____
 CASING LOCKED _____
 COLLAR _____
DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
8:40	4.75	400								well goes dry. will purge dry and collect recharge
9:17										well dry.
15:14	4.69	400								
15:17	4.79	15-72	15.72	232	6.65	3.01	235	-12.7		
15:20										Sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> Dissolved A9	14 NO3	1 + 250 mL	<input checked="" type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED _____

SIGNATURE: _____

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-7045
 SAMPLE ID MW-7045 SITE TYPE Industrial DATE 6/12/14
 TIME START 1327 END JOB NUMBER 0146790000 BOTTLE TIME 250

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID
 INITIAL DEPTH TO WATER 3.49 FT.
 FINAL DEPTH TO WATER FT.
 DRAWDOWN VOLUME GAL
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT.
 PROTECTIVE CASING / WELL DIFFERENCE FT.
 WELL DEPTH (TOR) 10.0 FT.
 SCREEN LENGTH FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED

PID AMBIENT AIR PPMV
 PID WELL MOUTH PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR

DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1327	3.49	start							9	
1340	weird									
612	4.01									
848	4.67	120	13.49	398	6.62	212	13.5	200		
850	reflect	Sample								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER

ANALYTICAL PARAMETERS

To Be Collected

<input checked="" type="checkbox"/> VOC	METHOD NUMBER <u>826013</u>	PRESERVATION METHOD <u>4-1</u>	VOLUME REQUIRED <u>3x100ml</u>	SAMPLE COLLECTED <input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED YES NO
 NUMBER OF GALLONS GENERATED

SIGNATURE:

NOTES:
Draw down

Prepared by:
 Checked by:



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MU-704D
 SAMPLE ID MU-704D SITE TYPE Industrial DATE 6/11/14
 TIME START 1342 END _____ JOB NUMBER 0146790000 BOTTLE TIME 1545

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID _____ MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____ PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT. PROTECTIVE CASING / WELL DIFFERENCE _____ FT.

INITIAL DEPTH TO WATER 3.40 FT. WELL DEPTH (TOR) 31.72 FT. PID AMBIENT AIR _____ PPMV WELL DIAMETER 2 IN.

FINAL DEPTH TO WATER 3.50 FT. SCREEN LENGTH _____ FT. PID WELL MOUTH _____ PPMV WELL INTEGRITY: YES NO N/A
 CAP _____
 LOCKED _____
 COLLAR _____

DRAWDOWN VOLUME 0.06 GAL. RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.03 PRESSURE TO PUMP N/A PSI REFILL TIMER SETTING N/A SEC. DISCHARGE TIMER SETTING N/A SEC.

TOTAL VOL. PURGED 2.1 GAL. (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1342	3.40	130 - start purge							30	
1352	3.80	130	12.75	315	7.17	0.43	58.1	-53		
1414	3.80	130	12.22	314	7.15	0.73	15.3	-114		
1430	3.50	130	11.65	315	7.15	0.41	40.1	-110		
1445	3.80	130	11.38	315	7.17	0.47	46.1	-131		
1500	3.20	130	11.70	315	7.17	0.40	46.9	-129		
1515	3.80	130	11.25	318	7.17	0.66	39.3	-109		
1530	3.80	130	11.74	316	7.17	0.83	27.3	-129		
1535	3.80	130	11.77	316	7.17	0.55	20.1	-112		
1540	3.80	130	11.74	317	7.17	0.84	18.3	-109		
1545	Collect sample 2hr int - CRP + turbidity, not 546									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOC	82601	HCL	3840ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 2

SIGNATURE: _____

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7055
 SAMPLE ID: MW-7055
 SITE TYPE: Industrial
 DATE: 6.10.14
 TIME START: 11:33 END: 12:15
 JOB NUMBER: 0146790000
 BOTTLE TIME: 12:10

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: /
 INITIAL DEPTH TO WATER: 4.48 FT.
 FINAL DEPTH TO WATER: 5.30 FT.
 DRAWDOWN VOLUME: 0.13 GAL
 TOTAL VOL. PURGED: 3 GAL

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): / FT.
PROTECTIVE CASING / WELL DIFFERENCE: / FT.
 WELL DEPTH (TOR): 17.25 FT.
 SCREEN LENGTH: / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.04

PID AMBIENT AIR: / PPMV
PID WELL MOUTH: / PPMV
PRESSURE TO PUMP: N/A PSI
REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
WELL INTEGRITY:
 CAP: YES NO N/A
 CASING LOCKED: YES NO N/A
 COLLAR: YES NO N/A
DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
11:33	4.50	270	Begin purge							
11:35	5.09	270	16.02	209	6.02	0.68	15.3	50.9	17	
11:40	5.18	270	15.81	205	6.02	0.43	10.2	35.3		
11:45	5.27	270	15.48	199	6.01	0.19	9.86	18.7		
11:50	5.27	270	15.46	199	6.00	0.15	8.12	12.2		
11:55	5.28	270	15.43	199	6.00	0.12	7.62	5.7		
12:00	5.29	270	15.44	198	6.00	0.18	7.50	1.6		
12:05	5.30	270	15.46	198	6.00	0.26	7.64	-3.4		
12:10	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER

ANALYTICAL PARAMETERS

To Be Collected

<input checked="" type="checkbox"/>	METHOD NUMBER: 10	PRESERVATION METHOD: HNO3	VOLUME REQUIRED: 1 x 250 ml	SAMPLE COLLECTED: <input checked="" type="checkbox"/>
<input type="checkbox"/>	Dissolved Arsenic			<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 0

NOTES:

SIGNATURE: *[Signature]*

amec
 Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7065
 SAMPLE ID: MW-7065
 SITE TYPE: Industrial
 DATE: 6-10-14
 TIME START: 9:22 END: _____
 JOB NUMBER: 0146790000
 BOTTLE TIME: 15:30 (6-11)

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: _____
 INITIAL DEPTH TO WATER: 4.83 FT.
 FINAL DEPTH TO WATER: _____ FT.
 DRAWDOWN VOLUME: _____ GAL
 (initial - final x 0.18 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED: _____ GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT.
PROTECTIVE CASING / WELL DIFFERENCE _____ FT.
WELL DEPTH (TOR) 14.34 FT.
SCREEN LENGTH _____ FT.
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED _____

PID AMBIENT AIR _____ PPMV
PID WELL MOUTH _____ PPMV
PRESSURE TO PUMP N/A PSI
REFILL TIMER SETTING N/A SEC.

WELL DIAMETER _____ IN.
WELL INTEGRITY: YES NO N/A
 CAP _____
 CASING LOCKED _____
 COLLAR _____

DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
9:22	4.83	400								well goes dry. will purge dry and collect recharge
10:10	well dry									
15:24	4.77									
15:26	5.26	400	14.06	300	6.96	1.63	209	-16.5		
15:30	sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
Dissolved As	AN03	1X250ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: _____

NOTES:

amtec

Prepared by: _____
 Checked by: _____

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7070
 SAMPLE ID: MW-7070
 SITE TYPE: Industrial
 DATE: 6-11-14
 TIME START: 7:58 END: 10:02
 JOB NUMBER: 0146790000
 BOTTLE TIME: 10:00

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: /
 INITIAL DEPTH TO WATER: 6.57 FT.
 FINAL DEPTH TO WATER: 6.71 FT.
 DRAWDOWN VOLUME: 0.02 GAL
 TOTAL VOL PURGED: 7.37 GAL

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): / FT.
PROTECTIVE CASING / WELL DIFFERENCE: / FT.
WELL DEPTH (TOR): 31.74 FT.
SCREEN LENGTH: / FT.
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 20.01

PID AMBIENT AIR: / PPMV
PID WELL MOUTH: / PPMV
PRESSURE TO PUMP: N/A PSI
REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
WELL INTEGRITY:
 CAP: YES [x] NO [] N/A []
 CASING LOCKED: YES [x] NO [] N/A []
 COLLAR: YES [x] NO [] N/A []
DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
8:20	6.69	225	13.24	678	6.52	0.17	124	213.6	30	
8:26	6.69	225	13.20	665	6.53	0.21	102	224.5		
9:31	6.71	225	13.42	693	6.53	0.15	17.4	-0.8		
9:36	6.71	225	13.46	484	6.52	0.12	16.0	-10.4		
9:41	6.71	225	13.44	474	6.52	0.13	13.9	-15.4		
9:51	6.71	225	13.37	462	6.52	0.07	13.3	-32.3		
9:58	2 hour purge limit reached. Will collect sample									
10:00	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: GEOPUMP
 QED BLADDER
 SIMCO BLADDER

TYPE OF TUBING: LDPE (Dedicated)
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE

TYPE OF PUMP MATERIAL: SILICON (Dedicated)
 POLYVINYL CHLORIDE
 STAINLESS STEEL

TYPE OF BLADDER MATERIAL: TEFLON
 OTHER

ANALYTICAL PARAMETERS

To Be Collected: [] [] [] [] [] []

METHOD NUMBER: 8260
 PRESERVATION METHOD: HCl
 VOLUME REQUIRED: 3 + 40 mL
 SAMPLE COLLECTED: [] [] [] [] [] []

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [] NO [x]
 NUMBER OF GALLONS GENERATED: 0

SIGNATURE: *[Signature]*

NOTES:

Prepared by:
 Checked by:



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-708D
 SAMPLE ID: MW-708D
 SITE TYPE: Industrial
 DATE: 6-11-14
 TIME START: 10:12 END: 12:22
 JOB NUMBER: 0146790000
 BOTTLE TIME: 12:20

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID:

MEASUREMENT POINT: TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): FT.
 PROTECTIVE CASING / WELL DIFFERENCE: FT.

INITIAL DEPTH TO WATER: 6.08 6.08 FT.
 FINAL DEPTH TO WATER: 11.40 FT.
 DRAWDOWN VOLUME: 0.85 GAL.
 (Initial - final x 0.16 (2-inch) or x 0.65 (4-inch))

WELL DEPTH (TOR): 29.34 FT.
 SCREEN LENGTH: FT.

PID AMBIENT AIR: PPMV
 PID WELL MOUTH: PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
 WELL INTEGRITY: CAP YES NO N/A
 CASING LOCKED YES NO N/A
 COLLAR YES NO N/A

TOTAL VOL. PURGED: 6.87 GAL.
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.12

DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
10:12	8.04	200	13.62	220	6.80	0.19	14.3	-57.4	29	
10:35	10.50	200	13.75	220	6.80	0.06	10.3	-58.0		
10:40	10.56	200	13.56	221	6.79	0.06	9.33	-58.8		
10:45	11.21	200	13.40	221	6.79	0.04	9.44	-58.7		
10:50	11.26	200	13.50	221	6.79	0.04	9.12	-54.7		
10:55	11.28	200	13.68	221	6.79	0.03	494	-54.6		turbidity increase
12:16	11.28	200	14.02	234	6.74	0.04	71000	-136.0		turbidity increase
12:20	2 hour limit reached due to turbidity will collect sample									
12:20	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP

TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)

TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)

TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	8260	HCl	3 + 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO

NUMBER OF GALLONS GENERATED: 0

NOTES:



SIGNATURE: *[Signature]*

Prepared by:
Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-708B
 SAMPLE ID MW-708B SITE TYPE Industrial DATE 6-11-14
 TIME START 12:30 END 13:22 JOB NUMBER 0146790000 BOTTLE TIME 13:20

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID /
 INITIAL DEPTH TO WATER 6.63 FT.
 FINAL DEPTH TO WATER 8.78 FT.
 DRAWDOWN VOLUME 0.34 GAL
 (initial - final x 0.18 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL PURGED 3.43 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) / FT.
 PROTECTIVE CASING / WELL DIFFERENCE / FT.
 WELL DEPTH (TOR) 55.29 FT.
 SCREEN LENGTH / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.01
 PID AMBIENT AIR / PPMV
 PID WELL MOUTH / PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
12:30	7.77	250	Begin							
12:38	7.80	250	14.80	372	7.12	0.24	114	-136.3	54	
13:09	8.78	250	14.27	356	6.96	0.14	4.51	-107.8		
13:14	8.78	250	14.30	356	6.95	0.12	1.20	-111.2		
13:19	8.78	250	14.27	355	6.94	0.07	0.96	-108.2		
13:20	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VOCs 8260	121	3 x 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED YES NO
 NUMBER OF GALLONS GENERATED 0

SIGNATURE: [Signature]

NOTES:

amec

Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-7095
 SAMPLE ID MW-7095 SITE TYPE Industrial DATE 6/9/11
 TIME START 1408 END 1605 JOB NUMBER 0146790000 BOTTLE TIME 1600

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID MEASUREMENT POINT TOP OF WELL RISER TOP OF PROTECTIVE CASING OTHER PROTECTIVE CASING STICKUP (FROM GROUND) FT. PROTECTIVE CASING / WELL DIFFERENCE FT.

INITIAL DEPTH TO WATER 3.58 FT. WELL DEPTH (TOR) 13' FT. PID AMBIENT AIR PPMV WELL DIAMETER 2 IN.

FINAL DEPTH TO WATER 3.72 FT. SCREEN LENGTH 10 FT. PID WELL MOUTH PPMV WELL INTEGRITY: CAP YES NO N/A
 CASKING LOCKED YES NO N/A
 COLLAR YES NO N/A

DRAWDOWN VOLUME 0.02 GAL. (initial - final x 0.18 (2-inch) or x 0.65 (4-inch)) RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.01 PRESSURE TO PUMP N/A PSI REFILL TIMER SETTING N/A SEC. DISCHARGE TIMER SETTING N/A SEC.

TOTAL VOL. PURGED 3.5 GAL. (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1408	3.58	120	14.98	416	6.21	0.35	41.8	-126	12	
1418	3.72	120	14.95	419	6.21	0.28	41.3	-141		
1428	3.72	120	14.60	415	6.23	0.23	35.3	-161		
1438	3.72	120	14.63	413	6.23	0.21	29.5	-157		
1448	3.72	120	14.72	418	6.22	0.22	27.1	-157		
1458	3.72	120	14.52	419	6.22	0.20	19.0	-159		
1518	3.72	120	14.68	418	6.22	0.20	9.31	-155		
1528	3.72	120	13.95	418	6.22	0.18	7.10	-137		
1538	3.72	120	13.90	417	6.22	0.19	6.48	-138		
1548	3.72	120	13.91	416	6.22	0.18	4.59	-110		
1553	3.72	120	13.91	416	6.20	0.19	4.55	-114		
1558	3.72	120	13.98	415	6.22	0.18	3.32	-110		
1600	collect sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOC	82603	HCL	3x40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 4

NOTES:

SIGNATURE: [Signature]



Prepared by:
Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-709D
 SAMPLE ID: MW 709D
 SITE TYPE: Industrial
 DATE: 6/9/14
 TIME START: 12:20 END: _____
 JOB NUMBER: 0146790000
 BOTTLE TIME: 1406

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: _____
 MEASUREMENT POINT: TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____
 PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.
 INITIAL DEPTH TO WATER: 2.53 FT.
 WELL DEPTH (TOR): 3100 FT.
 PID AMBIENT AIR: _____ PPMV
 WELL DIAMETER: 2 IN.
 FINAL DEPTH TO WATER: 3.01 FT.
 SCREEN LENGTH: 10 FT.
 PID WELL MOUTH: _____ PPMV
 WELL INTEGRITY: CAP _____ YES _____ NO _____ N/A
 LOCKED _____
 COLLAR _____
 DRAWDOWN VOLUME: 0.08 GAL.
 (Initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.03
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.
 DISCHARGE TIMER SETTING: N/A SEC.
 TOTAL VOL. PURGED: 3.1 GAL.
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1220	2.53	120							26	start purge
1235	3.01	120	14.95	452	6.70	0.63	140	145		
1240	3.01	120	14.98	371	6.62	0.47	112	-25		
1255	3.01	120	14.83	347	6.63	0.25	49.1	-121		
1310	3.01	120	14.76	347	6.65	0.19	30.9	-140		
1315	3.01	120	15.06	347	6.65	0.19	21.4	-131		
1323	3.01	120	15.27	351	6.67	0.25	22.3	-136		
1333	3.01	120	15.11	347	6.68	0.29	22.9	-147		
1343	3.01	120	15.01	347	6.68	0.19	22.2	-155		
1348	3.01	120	15.00	346	6.67	0.17	10.1	-147		
1353	3.01	120	14.99	347	6.69	0.35	14.5	-152		
1358	3.01	120	14.83	346	6.69	0.20	14.7	-153		
1400										collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
VOC 226013	Hcl	3x40ml	<input checked="" type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 3

NOTES:

Signature: _____

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-710D
 SAMPLE ID MW-710D SITE TYPE Industrial DATE 6-12-14
 TIME START 14:07 END 16:12 JOB NUMBER 0146790000 BOTTLE TIME 16:10

WATER LEVEL / PUMP SETTINGS

QC SAMPLE COLLECTED ID / MEASUREMENT POINT TOP OF WELL RISER TOP OF PROTECTIVE CASING OTHER _____ PROTECTIVE CASING STICKUP (FROM GROUND) / FT. PROTECTIVE CASING / WELL DIFFERENCE / FT.

INITIAL DEPTH TO WATER 2.41 FT. WELL DEPTH (TOR) 42.97 FT. PID AMBIENT AIR / PPMV WELL DIAMETER 2 IN.

FINAL DEPTH TO WATER 14.60 FT. SCREEN LENGTH / FT. PID WELL MOUTH / PPMV WELL INTEGRITY: CAP A YES A NO - N/A
 CASKING LOCKED A YES A NO - N/A
 COLLAR A YES A NO - N/A

DRAWDOWN VOLUME 1.95 GAL. RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.26 PRESSURE TO PUMP N/A PSI REFILL TIMER SETTING N/A SEC. DISCHARGE TIMER SETTING N/A SEC.
 (Initial - final x 0.18 (2-inch) or x 0.65 (4-inch))

TOTAL VOL. PURGED 7.43 GAL. (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
14:07		225								Begin purge
14:18	2.07	225	15.14	172	7.34	6.19	217	-76.3	42	
14:52	18.85	225	14.30	119	7.41	2.72	43.3	-60.5		
15:11	10-12.18	225	14.13	138	7.52	6.66	22.6	-72.5		
15:25	12.81	225	14.20	147	7.55	3.08	28.6	-80.6		
15:30	13.18	225	14.33	151	7.55	1.83	22.6	-74.6		
15:43	14.04	225	14.26	161	7.60	2.37	43.1	-67.3		
15:54	14.52	200	14.34	166	7.63	3.76	33.3	-92.1		
15:59	14.64	200	14.86	174	7.69	2.13	27.9	-99.4		
16:04	14.60	200	14.94	178	7.73	6.40	21.6	-102.4		
16:10	Sample									
										2 hour purge limit reached will collect sample

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> 8260	HCl	3 x 40 mL	<input checked="" type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 0

SIGNATURE: [Signature]

NOTES:

amec

Prepared by: _____
 Checked by: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7105
 SAMPLE ID: MW-7105
 SITE TYPE: Industrial
 DATE: 6/11/14
 TIME START: 800 END: _____
 JOB NUMBER: 0146790000
 BOTTLE TIME: 955

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: _____
 INITIAL DEPTH TO WATER: 2.70 FT.
 FINAL DEPTH TO WATER: 3.37 FT.
 DRAWDOWN VOLUME: 0.11 GAL
 TOTAL VOL. PURGED: 9.3 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.
 WELL DEPTH (TOR): 16.7 FT.
 SCREEN LENGTH: _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.03
 PID AMBIENT AIR: _____ PPMV
 PID WELL MOUTH: _____ PPMV
 PRESSURE TO PUMP: N/A PSI
 REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP: _____
 CASING LOCKED: _____
 COLLAR: _____
 DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
800	2.70	110	14.85	817	6.04	0.65	1.90	230	15	
820	3.20	110	14.81	588	6.05	0.32	1.90	220		
825	3.31	110	14.71	550	6.05	0.47	1.91	205		
835	3.33	110	14.76	547	6.09	0.37	1.91	196		
840	3.32	110	14.69	548	6.09	0.34	1.77	180		
845	3.33	110	14.71	547	6.09	0.30	1.76	155		
850	3.33	110	14.73	547	6.10	0.31	1.57	141		
855	3.33	110	15.16	544	6.10	0.34	0.91	121		
910	3.33	110	14.22	543	6.10	0.20	0.99	6.1		
920	3.33	110	14.17	543	6.10	0.19	0.93	-34		
930	3.33	110	14.45	543	6.12	0.23	0.88	-45		
0925	3.38	110	14.45	544	6.12	0.22	0.85	-47		
0940	3.35	110	14.38	543	6.12	0.22	0.77	-70		
0945	3.35	110	14.49	542	6.13	0.23	0.78	-69		
0950	3.35	110	14.40	542	6.13	0.22	0.83	-68		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOC	82603	Hcl	3x40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 3

NOTES:

SIGNATURE: _____



Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID Mu-700M
 SAMPLE ID Mu-700M SITE TYPE Industrial DATE 6/16/14
 TIME START 1000 END 1200 JOB NUMBER 0146790000 BOTTLE TIME 1200

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID
 INITIAL DEPTH TO WATER 2.50 FT.
 FINAL DEPTH TO WATER 3.00 FT.
 DRAWDOWN VOLUME 0.08 GAL.
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED 3.7 GAL.
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT.
 PROTECTIVE CASING / WELL DIFFERENCE FT.
 WELL DEPTH (TOR) 32.25 FT.
 SCREEN LENGTH FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.02

PID AMBIENT AIR PPMV
 PID WELL MOUTH PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP
 CASING LOCKED
 COLLAR
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1000	2.50	120	15.25	311	6.49	0.19	58.3	-132		start purge
1010	2.50	120	15.25	311	6.49	0.19	58.3	-132		
1020	3.00	120	15.15	207	6.70	0.29	49.5	-166		
1030	3.00	120	15.12	195	6.77	0.27	41.9	-175		
1040	3.00	120	15.11	182	6.80	0.37		-171		
1050	3.00	120	15.20	178	6.82	0.23		-170		
1100	3.00	120	14.97	171	6.89	0.22	44.5	-197		
1110	3.00	120	14.94	175	6.87	0.04	33.5	-197		
1125	3.00	120	14.17	180	6.84	0.11	25.0	-157		
1135	3.00	120	15.39	187	6.86	0.08	19.4	-182		
1140	3.00	120	15.51	191	6.84	0.10	13.5	-163		
1145	3.00	120	15.84	192	6.83	0.12	10.4	-164		
1150	3.00	120	15.75	195	6.82	0.13	10.4	-154		
1155	3.00	120	15.77	191	6.85	0.10	8.5	-199		
1200	3.00	120	15.77	196	6.82	0.11	8.3	-198		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	<u>uv</u>	<u>82603</u>	<u>Hcl</u>	<u>3x40ml</u>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 4

NOTES:

SIGNATURE: [Signature]



Prepared by:
Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-7115
 SAMPLE ID MW-7115 SITE TYPE Industrial DATE 6-10-14
 TIME START 12:30 END 13:35 JOB NUMBER 0146790000 BOTTLE TIME 13:30

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID /
 INITIAL DEPTH TO WATER 5.53 FT.
 FINAL DEPTH TO WATER 5.71 FT.
 DRAWDOWN VOLUME 0.03 GAL
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED 4.29 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) / FT.
 PROTECTIVE CASING / WELL DIFFERENCE / FT.
 WELL DEPTH (TOR) 19.70 FT.
 SCREEN LENGTH / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 20.01
 PID AMBIENT AIR / PPMV
 PID WELL MOUTH / PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP
 CASING LOCKED
 COLLAR
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

13:16
13:18
13:23
13:28
13:30

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
12:30	5.63	250	14.15	118	6.93	0.16	23.4	-68.9	19	NOTE:
12:35	5.68	250	14.36	117	6.93	0.15	23.5	-61.1		purge
13:23	5.70	250	14.37	116	6.93	0.15	24.3	-60.1		started at
13:28	5.71	250	14.36	115	6.93	0.13	24.0	-51.4		12:30
13:30	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER _____

ANALYTICAL PARAMETERS

To Be Collected:

METHOD NUMBER: VOCs 8260 PRESERVATION METHOD: 1+1 VOLUME REQUIRED: 3 x 40ml SAMPLE COLLECTED:

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED YES NO
 NUMBER OF GALLONS GENERATED 0

NOTES:

SIGNATURE: [Signature]

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-711D
 SAMPLE ID MW-711D SITE TYPE Industrial DATE 6-10-14
 TIME START 13:38 END 14:50 JOB NUMBER 0146790000 BOTTLE TIME 14:50

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID DUP-2
 INITIAL DEPTH TO WATER 6.46 FT.
 FINAL DEPTH TO WATER 6.55 FT.
 DRAWDOWN VOLUME 0.01 GAL
 TOTAL VOL. PURGED 4.75 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

WELL DEPTH (TOR) 36.26 FT.
 SCREEN LENGTH _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 60.01

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT.
 PID AMBIENT AIR _____ PPMV
 PID WELL MOUTH _____ PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

PROTECTIVE CASING / WELL DIFFERENCE _____ FT.
 WELL DIAMETER 2 IN.
 WELL INTEGRITY: CAP X YES — NO — N/A —
 CASING LOCKED X
 COLLAR A

DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
13:38		Begin purge @ 250 ml/min							35	
13:40	6.53	250	15.66	359	7.21	4.57	84.3	-71.4		DUP-2
14:30	6.55	250	14.71	352	6.71	0.06	12.2	-14.8		collected
14:35	6.55	250	14.74	352	6.71	0.09	8.87	-17.0		
14:40	6.55	250	14.77	352	6.70	0.08	8.25	-16.5		
14:45	6.56	250	14.77	352	6.71	0.07	8.82	-18.4		
14:50		Sample								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VOCs	82605 HCl	3 x 40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>
<input type="checkbox"/>			<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 0

NOTES:

Signature: [Signature]

Prepared by: _____
 Checked by: _____

amec

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-712g
 SAMPLE ID MW-712g SITE TYPE Industrial DATE 6-13-14
 TIME START 10:40 END 12:05 JOB NUMBER 0146790000 BOTTLE TIME 12:00

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID
 INITIAL DEPTH TO WATER 6.29 FT.
 FINAL DEPTH TO WATER 6.62 FT.
 DRAWDOWN VOLUME 0.05 GAL.
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED 5.61 GAL.
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____
 WELL DEPTH (TOR) 18.17 FT.
 SCREEN LENGTH FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 60.01

PROTECTIVE CASING STICKUP (FROM GROUND) FT.
PID AMBIENT AIR PPMV
PID WELL MOUTH PPMV
PRESSURE TO PUMP N/A PSI
REFILL TIMER SETTING N/A SEC.

PROTECTIVE CASING / WELL DIFFERENCE FT.
WELL DIAMETER 2 IN.
WELL INTEGRITY: YES NO N/A
 CAP _____
 CASING LOCKED _____
 COLLAR _____
DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
10:47	6.57	250	15.41	95	6.35	1.27	127	-51.9	17.5	Begin purge @ 10:40
10:52	6.59	250	15.60	95	6.30	0.85	51.6	-65.9		
11:27	6.62	250	17.26	90	6.37	1.00	9.27	-52.9		
11:32	6.62	250	17.32	90	6.38	0.87	7.51	-52.8		
11:45	6.62	250	17.29	90	6.39	0.75	4.89	-38.4		
11:50	6.62	250	17.32	91	6.39	0.71	4.59	-48.8	44.8	
11:55	6.62	250	17.32	91	6.39	0.75	4.06	-47.3		
12:00	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 QED BLADDER
 SIMCO BLADDER
 GEOPUMP

TYPE OF TUBING
 TEFLON OR TEFLON LINED
 HIGH DENSITY POLYETHYLENE
 LDPE (Dedicated)

TYPE OF PUMP MATERIAL
 POLYVINYL CHLORIDE
 STAINLESS STEEL
 SILICON (Dedicated)

TYPE OF BLADDER MATERIAL
 TEFLON
 OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	8260	1401	3+40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED YES NO
 NUMBER OF GALLONS GENERATED 0

SIGNATURE: [Signature]

NOTES:

amec
 Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-7133
 SAMPLE ID: MW-7133
 SITE TYPE: Industrial
 DATE: 6-12-14
 TIME START: 10:15 END: 12:20
 JOB NUMBER: 0146790000
 BOTTLE TIME: 12:15

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID:
 INITIAL DEPTH TO WATER: 4.89 FT.
 FINAL DEPTH TO WATER: 7.39 FT.
 DRAWDOWN VOLUME: 0.4 GAL
 TOTAL VOL PURGED: 7.43 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): / FT.
 PROTECTIVE CASING / WELL DIFFERENCE: / FT.
 WELL DEPTH (TOR): 20.06 FT.
 SCREEN LENGTH: / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.05
 REFILL TIMER SETTING: N/A SEC.

PID AMBIENT AIR: / PPMV
 PID WELL MOUTH: / PPMV
 PRESSURE TO PUMP: N/A PSI
 DISCHARGE TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
 WELL INTEGRITY: CAP YES NO N/A
 CASING LOCKED YES NO N/A
 COLLAR YES NO N/A

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
10:15	Begin purge @			225 ml/min					19	
10:47	7.38	225	14.25	539	5.99	1.55	178	-9.0		
10:52	7.38	225	14.51	539	5.98	0.25	238	-5.0		
11:36	7.38	225	14.44	529	5.98	0.23	59.6	-25.0		
11:41	7.39	225	14.54	527	5.98	0.22	53.6	-26.4		
12:09	7.39	225	14.48	523	5.98	0.27	26.6	-25.8		
12:14	7.39	225	14.50	524	5.98	0.26	22.4	-18.2		
12:15	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	8260	HCl	3x40ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 0

NOTES:



SIGNATURE: _____

Prepared by:
Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-713D
 SAMPLE ID MW-713D SITE TYPE Industrial DATE 6-12-14
 TIME START 12:26 END 13:52 JOB NUMBER 0146790000 BOTTLE TIME 13:50

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID /
 INITIAL DEPTH TO WATER 3.42 FT.
 FINAL DEPTH TO WATER 3.63 FT.
 DRAWDOWN VOLUME 0.04 GAL
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL PURGED 5.68 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) / FT.
 PROTECTIVE CASING / WELL DIFFERENCE / FT.
 WELL DEPTH (TOR) 33.57 FT.
 SCREEN LENGTH / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.2
 PID AMBIENT AIR / PPMV
 PID WELL MOUTH / PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP A - -
 LOCKED B - -
 COLLAR C - -
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
12:26		Begin purge @		250 ml/min						
12:43	3.61	250	15.22	296	6.98	0.25	96.5	-66.9	33	
12:48	3.61	250	15.30	295	6.98	0.21	76.7	-69.2		
12:53	3.62	250	15.11	296	6.97	0.12	62.7	-78.4		
13:23	3.62	250	15.44	301	6.92	0.40	28.3	-82.4		
13:28	3.62	250	15.46	304	6.90	0.45	22.5	-83.1		
13:38	3.62	250	15.44	303	6.88	0.20	18.2	-81.1		
13:43	3.63	250	15.40	303	6.88	0.18	18.0	-84.9		
13:48	3.63	250	15.39	303	6.87	0.15	17.9	-87.5		
13:50	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER _____

ANALYTICAL PARAMETERS

To Be Collected:

METHOD NUMBER: 8260 PRESERVATION METHOD: HCl VOLUME REQUIRED: 3 x 40 ml SAMPLE COLLECTED:

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED: YES NO NUMBER OF GALLONS GENERATED: 0

SIGNATURE: [Signature]

NOTES:

Prepared by: _____
 Checked by: _____



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-7143
 SAMPLE ID MW-7143 SITE TYPE Industrial DATE 6-11-14
 TIME START 13:43 END 14:22 JOB NUMBER 0146790000 BOTTLE TIME 14:20

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID /
 INITIAL DEPTH TO WATER 7.39 FT.
 FINAL DEPTH TO WATER 8.47 FT.
 DRAWDOWN VOLUME 0.17 GAL
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL PURGED 2.32 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) / FT.
 PROTECTIVE CASING / WELL DIFFERENCE / FT.
 WELL DEPTH (TOR) 12.74 FT.
 SCREEN LENGTH / FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.07

PID AMBIENT AIR / PPMV
 PID WELL MOUTH / PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP
 CASING LOCKED
 COLLAR
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
13:48	8.38	225	17.41	236	6.97	0.18	10.8	-128.0	12	
13:53	8.38	225	17.41	229	6.96	0.08	9.24	-133.0		
14:07	8.38	225	17.31	206	6.94	0.05	6.20	-138.6		
14:12	8.47	225	17.25	202	6.94	0.03	6.31	-138.1		
14:17	8.47	225	17.25	201	6.94	0.02	6.11	-144.9		
14:20	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VOCs 8260	HCl	3 + 40 ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 0

NOTES:

SIGNATURE: [Signature]



Prepared by:
Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Baker Hughes- Bird Machine
 WELL ID: MW-714D
 SAMPLE ID: MW-714D
 SITE TYPE: Industrial
 DATE: 6-11-14
 TIME START: 14:28 END: _____
 JOB NUMBER: 0146790000
 BOTTLE TIME: 15:05

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID: _____
 INITIAL DEPTH TO WATER: 6.91 FT.
 FINAL DEPTH TO WATER: 8.34 FT.
 DRAWDOWN VOLUME: _____ GAL.
 TOTAL VOL. PURGED: _____ GAL.

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT.
PROTECTIVE CASING / WELL DIFFERENCE: _____ FT.
 WELL DEPTH (TOR): 22.19 FT.
 SCREEN LENGTH: _____ FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: _____

PID AMBIENT AIR: _____ PPMV
PID WELL MOUTH: _____ PPMV
PRESSURE TO PUMP: N/A PSI
REFILL TIMER SETTING: N/A SEC.

WELL DIAMETER: 2 IN.
WELL INTEGRITY:
 YES NO N/A
 CAP _____
 LOCKED _____
 COLLAR _____
DISCHARGE TIMER SETTING: N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
14:28	Begin purge @			225						
14:40	8.04	225	15.25	303	6.82	0.10	2.91	-50.5		
14:51	8.26	225	15.39	303	6.79	0.07	1.72	-57.1		
14:56	8.32	225	15.31	302	6.75	0.07	1.29	-61.6		
15:04	8.34	225	15.35	302	6.78	0.09	0.82	-58.3		
15:05	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
TYPE OF BLADDER MATERIAL: TEFLON OTHER _____

ANALYTICAL PARAMETERS

To Be Collected: _____
 METHOD NUMBER: 8260
 PRESERVATION METHOD: HCl
 VOLUME REQUIRED: 3 x 40ml
 SAMPLE COLLECTED: _____

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: 0

NOTES:



SIGNATURE: _____

Prepared by: _____
 Checked by: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-715D
 SAMPLE ID MW-715D SITE TYPE Industrial DATE 8/18/14
 TIME START 1222 END 1320 JOB NUMBER 0146790000 BOTTLE TIME 1320

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID
 INITIAL DEPTH TO WATER 5.80 FT.
 FINAL DEPTH TO WATER 6.12 FT.
 DRAWDOWN VOLUME 0.1 GAL
 (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))
 TOTAL VOL. PURGED 2.0 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/ml)

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT.
 PROTECTIVE CASING / WELL DIFFERENCE FT.
 WELL DEPTH (TOR) 29.20 FT.
 SCREEN LENGTH 10 FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.05

PID AMBIENT AIR PPMV
 PID WELL MOUTH PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.

WELL DIAMETER 2 IN.
 WELL INTEGRITY: YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR

DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1222	5.80	125	-stand purge						27	
1232	6.35	125	12.17	289	6.44	2.69	12.7	-8.7		
1242	6.42	125	12.12	293	6.11	1.93	12.5	-66		
1249	6.42	125	12.13	293	6.46	1.90	12.0	-73		
1252	6.42	125	12.38	293	6.46	1.89	12.5	-78		
1257	6.42	125	12.43	294	6.46	1.78	12.9	-93		
1302	6.12	125	12.61	294	6.46	1.73	12.5	-94		
1307	6.42	125	12.32	295	6.41	1.71	9.21	-91		
1312	6.42	125	12.52	295	6.45	1.70	8.76	-95		
1317	6.42	125	12.70	296	6.46	1.63	8.59	-95		
1320	collect	sample								

EQUIPMENT DOCUMENTATION


TYPE OF PUMP: QED BLADDER SIMCO BLADDER GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED HIGH DENSITY POLYETHYLENE LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE STAINLESS STEEL SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON OTHER

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/>	VCC	8260B	HCl	3XVOLUME
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

PURGE OBSERVATIONS
 PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 26
 SIGNATURE: [Signature]

NOTES:

 Prepared by:
 Checked by:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Baker Hughes- Bird Machine WELL ID MW-7155
 SAMPLE ID MW-7155 SITE TYPE Industrial DATE 6/12/14
 TIME START 1322 END _____ JOB NUMBER 0146790000 BOTTLE TIME 1435

WATER LEVEL / PUMP SETTINGS
 QC SAMPLE COLLECTED ID _____
 INITIAL DEPTH TO WATER 5.60 FT.
 FINAL DEPTH TO WATER 5.92 FT.
 DRAWDOWN VOLUME 0.05 GAL.
 TOTAL VOL PURGED 2.6 GAL.
 MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____
 WELLS DEPTH (TOR) 16.72 FT.
 SCREEN LENGTH 10 FT.
 RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED 0.02
 PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT.
 PROTECTIVE CASING / WELL DIFFERENCE _____ FT.
 PID AMBIENT AIR _____ PPMV
 PID WELL MOUTH _____ PPMV
 PRESSURE TO PUMP N/A PSI
 REFILL TIMER SETTING N/A SEC.
 WELLS DIAMETER 2 IN.
 WELLS INTEGRITY: YES NO N/A
 CASING LOCKED _____
 COLLAR _____
 DISCHARGE TIMER SETTING N/A SEC.

PURGE DATA

TIME (5 min.)	DEPTH TO WATER (ft.) (0.3 ft.)	PURGE RATE (ml/min) (100-400)	TEMP. (deg. C) (3%)	SPEC. COND. (uS/cm) (3%)	pH (units) (+/- 0.1)	DISS. O2 (mg/L) (10%) (>0.5)	TURBIDITY (NTU) (10%) (>5)	ORP (mV) (+/- 10 mV)	SAMPLE DEPTH	COMMENTS
1322	5.60	130	-	-	-	-	-	-	18'	
1335	5.52	130	12.71	334	6.37	5.51	26.5	-25		
1348	5.92	130	12.37	319	6.21	6.23	25.3	-29		change tubing due to hole.
1358	5.92	130	11.72	320	6.11	0.35	24.9	-63		
1408	5.92	130	11.92	319	6.11	0.32	25.0	-83		
1418	5.92	130	12.36	324	6.11	0.27	25.3	-97		
1423	5.92	130	12.39	324	6.11	0.27	25.2	-103		
1428	5.92	130	12.28	323	6.11	0.33	25.7	-105		
1433	5.72	130	12.28	322	6.11	0.29	25.1	-106		
1435	check sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: QED BLADDER, SIMCO BLADDER, GEOPUMP
 TYPE OF TUBING: TEFLON OR TEFLON LINED, HIGH DENSITY POLYETHYLENE, LDPE (Dedicated)
 TYPE OF PUMP MATERIAL: POLYVINYL CHLORIDE, STAINLESS STEEL, SILICON (Dedicated)
 TYPE OF BLADDER MATERIAL: TEFLON, OTHER _____

ANALYTICAL PARAMETERS


To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
<input checked="" type="checkbox"/> VGC	P260	HCl	5XICAL	<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO _____
 NUMBER OF GALLONS GENERATED 3
 SIGNATURE: _____

NOTES:

Prepared by: _____
 Checked by: _____





Appendix D – Laboratory Results



ANALYTICAL REPORT

Lab Number:	L1405824
Client:	AMEC Earth & Environmental 271 Mill Road 3rd Floor Chelmsford, MA 01824
ATTN:	Craig Keating
Phone:	(978) 392-5337
Project Name:	BIRD MACHINE
Project Number:	0146790000
Report Date:	03/27/14

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1405824-01	MW-709S	SOUTH WALPOLE, MA	03/20/14 09:45
L1405824-02	MB-MW-374	SOUTH WALPOLE, MA	03/20/14 10:30
L1405824-03	MB-MW-374 DUP	SOUTH WALPOLE, MA	03/20/14 10:30
L1405824-04	MW-714S	SOUTH WALPOLE, MA	03/20/14 11:40
L1405824-05	NP-MW-601	SOUTH WALPOLE, MA	03/20/14 09:55
L1405824-06	MW-702B	SOUTH WALPOLE, MA	03/20/14 11:30
L1405824-07	MW-706S	SOUTH WALPOLE, MA	03/20/14 08:40
L1405824-08	MW-706S DUP	SOUTH WALPOLE, MA	03/20/14 08:40
L1405824-09	TB-01	SOUTH WALPOLE, MA	03/20/14 00:00

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

In reference to question H:

The WG678130-1/-2 LCS/LCSD RPDs, associated with L1405824-01 through -06 and -09, are above the acceptance criteria for methylene chloride (25%) and 1,4-dioxane (26%).

The initial calibration, associated with L1405824-01 through -06 and -09, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.00364), as well as the average response factor for 1,4-dioxane.

The continuing calibration standard, associated with L1405824-01 through -06 and -09, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.


Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 03/27/14

ORGANICS

VOLATILES

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-01
 Client ID: MW-709S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 03/26/14 10:38
 Analyst: MM

Date Collected: 03/20/14 09:45
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	100		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	15		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	4.7		ug/l	1.0	--	1
trans-1,2-Dichloroethene	1.7		ug/l	1.0	--	1
Trichloroethene	68		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-01

Date Collected: 03/20/14 09:45

Client ID: MW-709S

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	24		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1405824**Project Number:** 0146790000**Report Date:** 03/27/14**SAMPLE RESULTS**

Lab ID: L1405824-01

Date Collected: 03/20/14 09:45

Client ID: MW-709S

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
-------------	----	--	------	-----	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-02
 Client ID: MB-MW-374
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 03/26/14 11:10
 Analyst: MM

Date Collected: 03/20/14 10:30
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	62		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	4.8		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	1.0		ug/l	1.0	--	1
Trichloroethene	9.6		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-02
 Client ID: MB-MW-374
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 03/20/14 10:30
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	9.6		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1405824**Project Number:** 0146790000**Report Date:** 03/27/14**SAMPLE RESULTS**

Lab ID: L1405824-02

Date Collected: 03/20/14 10:30

Client ID: MB-MW-374

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-03
 Client ID: MB-MW-374 DUP
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 03/26/14 11:43
 Analyst: MM

Date Collected: 03/20/14 10:30
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	62		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	4.6		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	9.8		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-03
 Client ID: MB-MW-374 DUP
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 03/20/14 10:30
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	9.4		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1405824**Project Number:** 0146790000**Report Date:** 03/27/14**SAMPLE RESULTS**

Lab ID: L1405824-03
 Client ID: MB-MW-374 DUP
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 03/20/14 10:30
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: BIRD MACHINE**Lab Number:** L1405824**Project Number:** 0146790000**Report Date:** 03/27/14**SAMPLE RESULTS**

Lab ID: L1405824-04
Client ID: MW-714S
Sample Location: SOUTH WALPOLE, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 03/26/14 12:16
Analyst: MM

Date Collected: 03/20/14 11:40
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	19		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	3.2		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	23		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-04
 Client ID: MW-714S
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 03/20/14 11:40
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	14		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1405824**Project Number:** 0146790000**Report Date:** 03/27/14**SAMPLE RESULTS**

Lab ID: L1405824-04
 Client ID: MW-714S
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 03/20/14 11:40
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-05
 Client ID: NP-MW-601
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 03/26/14 12:48
 Analyst: MM

Date Collected: 03/20/14 09:55
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	2.2		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	3.1		ug/l	1.0	--	1
1,3-Dichlorobenzene	2.6		ug/l	1.0	--	1
1,4-Dichlorobenzene	6.2		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-05

Date Collected: 03/20/14 09:55

Client ID: NP-MW-601

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	19		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	68		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1405824**Project Number:** 0146790000**Report Date:** 03/27/14**SAMPLE RESULTS**

Lab ID: L1405824-05

Date Collected: 03/20/14 09:55

Client ID: NP-MW-601

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	119		70-130

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-06
 Client ID: MW-702B
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 03/26/14 13:21
 Analyst: MM

Date Collected: 03/20/14 11:30
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	1.9		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.2		ug/l	1.0	--	1
1,2-Dichlorobenzene	2.7		ug/l	1.0	--	1
1,3-Dichlorobenzene	2.2		ug/l	1.0	--	1
1,4-Dichlorobenzene	6.0		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-06

Date Collected: 03/20/14 11:30

Client ID: MW-702B

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	19		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	68		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1405824**Project Number:** 0146790000**Report Date:** 03/27/14**SAMPLE RESULTS**

Lab ID: L1405824-06

Date Collected: 03/20/14 11:30

Client ID: MW-702B

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	120		70-130

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-09
 Client ID: TB-01
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 03/26/14 10:05
 Analyst: MM

Date Collected: 03/20/14 00:00
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-09
 Client ID: TB-01
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 03/20/14 00:00
 Date Received: 03/20/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1405824**Project Number:** 0146790000**Report Date:** 03/27/14**SAMPLE RESULTS**

Lab ID: L1405824-09

Date Collected: 03/20/14 00:00

Client ID: TB-01

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	113		70-130

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260C
Analytical Date: 03/26/14 07:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06,09 Batch: WG678130-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 03/26/14 07:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06,09 Batch: WG678130-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 03/26/14 07:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06,09 Batch: WG678130-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	115		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06,09 Batch: WG678130-1 WG678130-2								
Methylene chloride	89		114		70-130	25	Q	20
1,1-Dichloroethane	101		104		70-130	3		20
Chloroform	100		102		70-130	2		20
Carbon tetrachloride	98		102		70-130	4		20
1,2-Dichloropropane	100		98		70-130	2		20
Dibromochloromethane	95		95		70-130	0		20
1,1,2-Trichloroethane	96		97		70-130	1		20
Tetrachloroethene	104		101		70-130	3		20
Chlorobenzene	107		105		70-130	2		20
Trichlorofluoromethane	102		104		70-130	2		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	103		103		70-130	0		20
Bromodichloromethane	96		99		70-130	3		20
trans-1,3-Dichloropropene	98		98		70-130	0		20
cis-1,3-Dichloropropene	95		97		70-130	2		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	89		90		70-130	1		20
1,1,2,2-Tetrachloroethane	101		104		70-130	3		20
Benzene	100		98		70-130	2		20
Toluene	104		104		70-130	0		20
Ethylbenzene	106		105		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06,09 Batch: WG678130-1 WG678130-2								
Chloromethane	103		106		70-130	3		20
Bromomethane	95		103		70-130	8		20
Vinyl chloride	114		115		70-130	1		20
Chloroethane	130		129		70-130	1		20
1,1-Dichloroethene	108		107		70-130	1		20
trans-1,2-Dichloroethene	106		106		70-130	0		20
Trichloroethene	100		101		70-130	1		20
1,2-Dichlorobenzene	97		98		70-130	1		20
1,3-Dichlorobenzene	104		104		70-130	0		20
1,4-Dichlorobenzene	101		104		70-130	3		20
Methyl tert butyl ether	99		100		70-130	1		20
p/m-Xylene	108		107		70-130	1		20
o-Xylene	110		106		70-130	4		20
cis-1,2-Dichloroethene	101		104		70-130	3		20
Dibromomethane	103		101		70-130	2		20
1,2,3-Trichloropropane	106		108		70-130	2		20
Styrene	119		122		70-130	2		20
Dichlorodifluoromethane	126		126		70-130	0		20
Acetone	112		113		70-130	1		20
Carbon disulfide	115		119		70-130	3		20
2-Butanone	105		102		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06,09 Batch: WG678130-1 WG678130-2								
4-Methyl-2-pentanone	100		106		70-130	6		20
2-Hexanone	103		105		70-130	2		20
Bromochloromethane	106		105		70-130	1		20
Tetrahydrofuran	101		101		70-130	0		20
2,2-Dichloropropane	101		101		70-130	0		20
1,2-Dibromoethane	98		100		70-130	2		20
1,3-Dichloropropane	103		103		70-130	0		20
1,1,1,2-Tetrachloroethane	93		93		70-130	0		20
Bromobenzene	102		105		70-130	3		20
n-Butylbenzene	103		103		70-130	0		20
sec-Butylbenzene	105		104		70-130	1		20
tert-Butylbenzene	102		102		70-130	0		20
o-Chlorotoluene	103		102		70-130	1		20
p-Chlorotoluene	103		104		70-130	1		20
1,2-Dibromo-3-chloropropane	113		99		70-130	13		20
Hexachlorobutadiene	108		100		70-130	8		20
Isopropylbenzene	104		103		70-130	1		20
p-Isopropyltoluene	104		104		70-130	0		20
Naphthalene	103		104		70-130	1		20
n-Propylbenzene	105		103		70-130	2		20
1,2,3-Trichlorobenzene	102		104		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06,09 Batch: WG678130-1 WG678130-2								
1,2,4-Trichlorobenzene	102		108		70-130	6		20
1,3,5-Trimethylbenzene	101		103		70-130	2		20
1,2,4-Trimethylbenzene	103		102		70-130	1		20
Ethyl ether	104		105		70-130	1		20
Isopropyl Ether	96		97		70-130	1		20
Ethyl-Tert-Butyl-Ether	96		96		70-130	0		20
Tertiary-Amyl Methyl Ether	94		98		70-130	4		20
1,4-Dioxane	84		109		70-130	26	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	95		93		70-130
Toluene-d8	102		99		70-130
4-Bromofluorobenzene	98		95		70-130
Dibromofluoromethane	101		98		70-130

METALS

Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-07

Date Collected: 03/20/14 08:40

Client ID: MW-706S

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.0189		mg/l	0.0005	--	1	03/25/14 11:14	03/25/14 13:41	NA	97,6020A	KL



Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

SAMPLE RESULTS

Lab ID: L1405824-08

Date Collected: 03/20/14 08:40

Client ID: MW-706S DUP

Date Received: 03/20/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.0181		mg/l	0.0005	--	1	03/25/14 11:14	03/25/14 13:45	NA	97,6020A	KL



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 07-08 Batch: WG677754-1									
Arsenic, Dissolved	ND	mg/l	0.0005	--	1	03/25/14 11:14	03/25/14 13:13	97,6020A	KL

Prep Information

Digestion Method: NA

Lab Control Sample Analysis Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG677754-2 WG677754-3								
Arsenic, Dissolved	96		98		80-120	2		20



Project Name: BIRD MACHINE

Lab Number: L1405824

Project Number: 0146790000

Report Date: 03/27/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405824-01A	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-01B	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-01C	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-02A	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-02B	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-02C	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-03A	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-03B	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-03C	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-04A	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-04B	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-04C	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-05A	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-05B	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-05C	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-06A	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-06B	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-06C	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-07A	Plastic 250ml HNO3 preserved	A	<2	5.2	Y	Absent	MCP-AS-6020S-10(180)
L1405824-08A	Plastic 250ml HNO3 preserved	A	<2	5.2	Y	Absent	MCP-AS-6020S-10(180)
L1405824-09A	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-09B	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)
L1405824-09C	Vial HCl preserved	A	N/A	5.2	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

Data Qualifiers

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1405824
Report Date: 03/27/14

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: Bird Machine
Project Location: Southwell pole, MA
Project #: 0146790000
Project Manager: Craig Keating
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 3/27/14

Date Rec'd in Lab: 3/20/14

ALPHA Job #: L1405824

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: AMEC
Address: 271 Mill Rd.
Chelmsford, MA
Phone: 978-692-9090
Email: Craig.Keating@Amec.com

Additional Project Information:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ANALYSIS		SAMPLE INFO	TOTAL # BOTTLES
VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH		
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPT3	Filtration	
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	<input checked="" type="checkbox"/> Field	
<input type="checkbox"/> PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	<input type="checkbox"/> Lab to do	
<i>Discard As Field EPH-14</i>		Preservation	
		<input type="checkbox"/> Lab to do	
		Sample Comments	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Sample Comments	TOTAL # BOTTLES
		Date	Time												
05824-01	MW-7095	3/20/14	945	GW	MAM	X									3
02	MB-MW-374	3/20/14	1030	GW	MAM	X									3
03	MB-MW-374 DUP	3/20/14	1030	GW	MAM	X									3
04	MW-7145	3/20/14	1140	GW	MAM	X									3
05	NP-MW-601	3/20/14	955	GW	DLC	X									3
06	MW-702B	3/20/14	1130	GW	DLC	X									3
07	MW-7065	3/20/14	0840	GW	DLC								X		1
08	MW-7065 DUP	3/20/14	0840	GW	DLC								X		1
09	TB-01	3/20/14	1200	GW	-	X									3

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO3
D= H2SO4
E= NaOH
F= MeOH
G= NaHSO4
H= Na2S2O8
I= Ascorbic Acid
J= NH4Cl
K= Zn Acetate
O= Other

Container Type	V														P
Preservative	B														C

Relinquished By:	Date/Time	Received By:	Date/Time	All samples submitted are subject to Alpha's Terms and Conditions. See reverse side. FORM NO: 01-01 (rev. 12-Mar-2012)
<u>David Chapman</u>	<u>3-20-14 13:20</u>	<u>[Signature]</u>	<u>3/20/14 13:00</u>	

7A
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1405824

Instrument ID: Jack.i Calibration Date: 26-MAR-2014 Time: 06:16

Lab File ID: 0326A02 Init. Calib. Date(s): 24-MAR-2 24-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 06:20 13:58

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.49527	.62696	.1	27	20	F
chloromethane	100	103	.1	3	20	
vinyl chloride	.91218	1.0424	.1	14	20	
bromomethane	.29117	.27735	.1	-5	20	
chloroethane	.44462	.57811	.1	30	20	F
trichlorofluoromethane	.96972	.98498	.1	2	20	
ethyl ether	.2816	.29452	.05	5	20	
1,1,-dichloroethene	.57317	.61646	.1	8	20	
carbon disulfide	1.3889	1.5942	.1	15	20	
freon-113	.63314	.68185	.1	8	20	
iodomethane	.37278	.32764	.05	-12	20	
acrolein	.14016	.15495	.05	11	20	
methylene chloride	.59834	.53424	.1	-11	20	
acetone	100	112	.1	12	20	
trans-1,2-dichloroethene	.65128	.68887	.1	6	20	
methyl acetate	.43017	.4413	.1	3	20	
methyl tert butyl ether	1.3014	1.2840	.1	-1	20	
tert butyl alcohol	.04678	.04777	.05	2	20	F
Diisopropyl Ether	2.8471	2.7236	.01	-4	20	
1,1-dichloroethane	1.5632	1.5727	.2	1	20	
acrylonitrile	.21841	.24047	.05	10	20	
Halothane	.49604	.51152	.05	3	20	
Ethyl-Tert-Butyl-Ether	2.2696	2.1753	.05	-4	20	
vinyl acetate	1.5145	1.4833	.05	-2	20	
cis-1,2-dichloroethene	.71409	.72347	.1	1	20	
2,2-dichloropropane	.97271	.97984	.05	1	20	
cyclohexane	1.8338	1.9695	.01	7	30	
bromochloromethane	.3082	.32668	.05	6	20	
chloroform	1.1828	1.1791	.2	0	20	
carbontetrachloride	.89326	.87688	.1	-2	20	
tetrahydrofuran	.20231	.20496	.05	1	20	
ethyl acetate	.5616	.5442	.05	-3	20	
1,1,1-trichloroethane	1.0162	1.0440	.1	3	20	
1,1-dichloropropene	.92538	.92654	.05	0	20	
2-butanone	.24149	.25354	.1	5	20	
benzene	2.6154	2.6024	.5	0	20	
Tertiary-Amyl Methyl Ether	1.3454	1.2627	.05	-6	20	
1,2-dichloroethane	.93584	.93947	.1	0	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1405824

Instrument ID: Jack.i Calibration Date: 26-MAR-2014 Time: 06:16

Lab File ID: 0326A02 Init. Calib. Date(s): 24-MAR-2 24-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 06:20 13:58

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
methyl cyclohexane	.9805	1.0299	.01	5	30
trichloroethene	.63791	.64171	.2	1	20
dibromomethane	.31962	.32828	.05	3	20
1,2-dichloropropane	.83876	.83655	.1	0	20
bromodichloromethane	.82605	.79699	.2	-4	20
1,4-dioxane	.00423	.00354	.05	-16	20
2-chloroethylvinyl ether	.3725	.37605	.05	1	20
cis-1,3-dichloropropene	.98705	.93344	.2	-5	20
toluene	2.0122	2.0886	.4	4	20
tetrachloroethene	.87149	.90573	.2	4	20
4-methyl-2-pentanone	.20046	.19988	.1	0	20
trans-1,3-dichloropropene	.97089	.94628	.1	-3	20
1,1,2-trichloroethane	.46399	.44354	.1	-4	20
ethyl-methacrylate	.72397	.81426	.01	12	30
chlorodibromomethane	.65484	.62249	.1	-5	20
1,3-dichloropropane	.97005	.99608	.05	3	20
1,2-dibromoethane	.56653	.55269	.1	-2	20
2-hexanone	.42284	.43538	.1	3	20
chlorobenzene	2.1785	2.3302	.5	7	20
ethyl benzene	3.8004	4.0269	.1	6	20
1,1,1,2-tetrachloroethane	.77297	.72035	.05	-7	20
p/m xylene	1.4987	1.6204	.1	8	20
o xylene	1.3908	1.5229	.3	10	20
bromoform	.65445	.58021	.1	-11	20
styrene	2.3580	2.8088	.3	19	20
isopropylbenzene	6.7198	6.9939	.1	4	20
bromobenzene	1.6180	1.6552	.05	2	20
n-propylbenzene	7.1776	7.5190	.05	5	20
1,4-dichlorobutane	2.5333	2.6350	.01	4	20
1,1,2,2,-tetrachloroethane	1.0971	1.1124	.3	1	20
4-ethyltoluene	6.6232	6.8966	.05	4	20
2-chlorotoluene	5.0164	5.1533	.05	3	20
1,2,3-trichloropropane	.87607	.92907	.05	6	20
1,3,5-trimethylbenzene	5.2320	5.3055	.05	1	20
trans-1,4-dichloro-2-butene	.19049	.18874	.05	-1	20
4-chlorotoluene	4.4812	4.6268	.05	3	20
tert-butylbenzene	4.3508	4.4598	.05	3	20
1,2,4-trimethylbenzene	5.2492	5.3986	.05	3	20

F

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1405824

Instrument ID: Jack.i Calibration Date: 26-MAR-2014 Time: 06:16

Lab File ID: 0326A02 Init. Calib. Date(s): 24-MAR-2 24-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 06:20 13:58

Compound	<u>RRF</u>	RRF	MIN RRF	%D	MAX %D
sec-butylbenzene	6.0924	6.4056	.01	5	20
p-isopropyltoluene	4.956	5.1346	.05	4	20
1,3-dichlorobenzene	2.8960	3.0220	.6	4	20
1,4-dichlorobenzene	2.9931	3.0192	.5	1	20
p-diethylbenzene	2.719	2.8735	.05	6	20
n-butylbenzene	3.7940	3.9233	.05	3	20
1,2-dichlorobenzene	2.8647	2.7775	.4	-3	20
1,2,4,5-tetramethylbenzene	4.0524	4.0945	.05	1	20
1,2-dibromo-3-chloropropane	.18789	.21258	.05	13	20
1,3,5-trichlorobenzene	.70684	.72081	.05	2	20
1,2,4-trichlorobenzene	1.2665	1.2904	.2	2	20
hexachlorobutadiene	.43771	.47424	.05	8	20
naphthalene	3.1400	3.2428	.05	3	20
1,2,3-trichlorobenzene	1.1012	1.1228	.05	2	20
dibromofluoromethane	.27106	.27508	.05	1	20
1,2-dichloroethane-d4	.33851	.32162	.05	-5	20
toluene-d8	1.2610	1.2878	.01	2	20
4-bromofluorobenzene	.88563	.86755	.05	-2	20



ANALYTICAL REPORT

Lab Number:	L1412609
Client:	AMEC Earth & Environmental 271 Mill Road 3rd Floor Chelmsford, MA 01824
ATTN:	Craig Keating
Phone:	(978) 392-5337
Project Name:	BIRD MACHINE
Project Number:	0146790000
Report Date:	06/17/14

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1412609-01	MW-702B	SOUTH WALPOLE, MA	06/09/14 13:10
L1412609-02	MW-709D	SOUTH WALPOLE, MA	06/09/14 14:00
L1412609-03	MW-702D	SOUTH WALPOLE, MA	06/09/14 14:15
L1412609-04	NP-MW-601	SOUTH WALPOLE, MA	06/09/14 15:35
L1412609-05	MW-709S	SOUTH WALPOLE, MA	06/09/14 16:00
L1412609-06	LR-MW-121	SOUTH WALPOLE, MA	06/10/14 10:15
L1412609-07	MW-701S	SOUTH WALPOLE, MA	06/10/14 11:25
L1412609-08	MW-705S	SOUTH WALPOLE, MA	06/10/14 12:10
L1412609-09	MB-MW-371	SOUTH WALPOLE, MA	06/10/14 12:30
L1412609-10	LR-MW-122	SOUTH WALPOLE, MA	06/10/14 12:45
L1412609-11	MW-711S	SOUTH WALPOLE, MA	06/10/14 13:30
L1412609-12	LR-MW-124	SOUTH WALPOLE, MA	06/10/14 14:50
L1412609-13	MW-711D	SOUTH WALPOLE, MA	06/10/14 14:50
L1412609-14	MW-700S	SOUTH WALPOLE, MA	06/10/14 15:10
L1412609-15	DUP-1	SOUTH WALPOLE, MA	06/10/14 00:00
L1412609-16	DUP-2	SOUTH WALPOLE, MA	06/10/14 00:00
L1412609-17	TRIPBLANK-01	SOUTH WALPOLE, MA	06/10/14 00:00
L1412609-18	LR-MW-129	SOUTH WALPOLE, MA	06/10/14 16:20

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

The samples were field filtered for Dissolved Metals.

Volatile Organics

In reference to question H:

The initial calibration, associated with L1412609-01 through -05, -07, -11 through -14, -16, -17, and -18, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.00302), as well as the average response factor for 1,4-dioxane.

The continuing calibration standards, associated with L1412609-01 through -05, -07, -11, -12, -13, -14, -16, -17, and -18, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as addenda to this report.

Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Lisa Westerlind

Title: Technical Director/Representative

Date: 06/17/14

ORGANICS

VOLATILES

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-01
 Client ID: MW-702B
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/14/14 18:11
 Analyst: MM

Date Collected: 06/09/14 13:10
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	1.9		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.1		ug/l	1.0	--	1
1,2-Dichlorobenzene	2.6		ug/l	1.0	--	1
1,3-Dichlorobenzene	2.0		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-01

Date Collected: 06/09/14 13:10

Client ID: MW-702B

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	5.7		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	16		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	58		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-01

Date Collected: 06/09/14 13:10

Client ID: MW-702B

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-02
 Client ID: MW-709D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/14/14 18:42
 Analyst: MM

Date Collected: 06/09/14 14:00
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	7.8		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	1.8		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	2.9		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-02

Date Collected: 06/09/14 14:00

Client ID: MW-709D

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	1.8		ug/l	1.0	--	1
1,2-Dichloroethene (total)	1.8		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-02

Date Collected: 06/09/14 14:00

Client ID: MW-709D

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-03
 Client ID: MW-702D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/14/14 19:14
 Analyst: MM

Date Collected: 06/09/14 14:15
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.1		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-03

Date Collected: 06/09/14 14:15

Client ID: MW-702D

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	2.2		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-03

Date Collected: 06/09/14 14:15

Client ID: MW-702D

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-04
 Client ID: NP-MW-601
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 09:41
 Analyst: MM

Date Collected: 06/09/14 15:35
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	1.7		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	2.5		ug/l	1.0	--	1
1,3-Dichlorobenzene	2.2		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-04

Date Collected: 06/09/14 15:35

Client ID: NP-MW-601

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	5.2		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	15		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	50		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-04

Date Collected: 06/09/14 15:35

Client ID: NP-MW-601

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-05
 Client ID: MW-709S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 10:12
 Analyst: MM

Date Collected: 06/09/14 16:00
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	94		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	14		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	3.7		ug/l	1.0	--	1
trans-1,2-Dichloroethene	1.2		ug/l	1.0	--	1
Trichloroethene	58		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-05

Date Collected: 06/09/14 16:00

Client ID: MW-709S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	23		ug/l	1.0	--	1
1,2-Dichloroethene (total)	24		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-05

Date Collected: 06/09/14 16:00

Client ID: MW-709S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-07
 Client ID: MW-701S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 10:44
 Analyst: MM

Date Collected: 06/10/14 11:25
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-07

Date Collected: 06/10/14 11:25

Client ID: MW-701S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-07

Date Collected: 06/10/14 11:25

Client ID: MW-701S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-11
 Client ID: MW-711S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 11:16
 Analyst: MM

Date Collected: 06/10/14 13:30
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-11

Date Collected: 06/10/14 13:30

Client ID: MW-711S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-11

Date Collected: 06/10/14 13:30

Client ID: MW-711S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-12
 Client ID: LR-MW-124
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 11:47
 Analyst: MM

Date Collected: 06/10/14 14:50
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-12
 Client ID: LR-MW-124
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/10/14 14:50
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-12

Date Collected: 06/10/14 14:50

Client ID: LR-MW-124

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-13
 Client ID: MW-711D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 12:19
 Analyst: MM

Date Collected: 06/10/14 14:50
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	8.7		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	2.3		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	3.3		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-13

Date Collected: 06/10/14 14:50

Client ID: MW-711D

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.4		ug/l	1.0	--	1
1,2-Dichloroethene (total)	2.4		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-13

Date Collected: 06/10/14 14:50

Client ID: MW-711D

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-14
 Client ID: MW-700S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 12:50
 Analyst: MM

Date Collected: 06/10/14 15:10
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-14

Date Collected: 06/10/14 15:10

Client ID: MW-700S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-14

Date Collected: 06/10/14 15:10

Client ID: MW-700S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-16
 Client ID: DUP-2
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 13:22
 Analyst: MM

Date Collected: 06/10/14 00:00
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	9.1		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	2.3		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	3.3		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-16

Date Collected: 06/10/14 00:00

Client ID: DUP-2

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.5		ug/l	1.0	--	1
1,2-Dichloroethene (total)	2.5		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-16

Date Collected: 06/10/14 00:00

Client ID: DUP-2

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-17
 Client ID: TRIPBLANK-01
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/14/14 11:51
 Analyst: MM

Date Collected: 06/10/14 00:00
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-17
 Client ID: TRIPBLANK-01
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/10/14 00:00
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-17
 Client ID: TRIPBLANK-01
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/10/14 00:00
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-18
 Client ID: LR-MW-129
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/16/14 13:54
 Analyst: MM

Date Collected: 06/10/14 16:20
 Date Received: 06/10/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-18

Date Collected: 06/10/14 16:20

Client ID: LR-MW-129

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-18

Date Collected: 06/10/14 16:20

Client ID: LR-MW-129

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/14/14 11:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03,17 Batch: WG698014-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/14/14 11:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03,17 Batch: WG698014-3					
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260C
Analytical Date: 06/14/14 11:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03,17 Batch: WG698014-3					
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/16/14 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04-05,07,11-14,16,18 Batch: WG698122-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/16/14 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04-05,07,11-14,16,18 Batch: WG698122-3					
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/16/14 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 04-05,07,11-14,16,18 Batch: WG698122-3					
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03,17 Batch: WG698014-1 WG698014-2								
Methylene chloride	93		95		70-130	2		20
1,1-Dichloroethane	97		99		70-130	2		20
Chloroform	97		99		70-130	2		20
Carbon tetrachloride	87		90		70-130	3		20
1,2-Dichloropropane	93		95		70-130	2		20
Dibromochloromethane	83		86		70-130	4		20
1,1,2-Trichloroethane	92		94		70-130	2		20
Tetrachloroethene	100		101		70-130	1		20
Chlorobenzene	96		97		70-130	1		20
Trichlorofluoromethane	110		114		70-130	4		20
1,2-Dichloroethane	96		98		70-130	2		20
1,1,1-Trichloroethane	94		95		70-130	1		20
Bromodichloromethane	90		92		70-130	2		20
trans-1,3-Dichloropropene	76		78		70-130	3		20
cis-1,3-Dichloropropene	82		85		70-130	4		20
1,1-Dichloropropene	102		103		70-130	1		20
Bromoform	72		74		70-130	3		20
1,1,2,2-Tetrachloroethane	92		94		70-130	2		20
Benzene	102		104		70-130	2		20
Toluene	98		99		70-130	1		20
Ethylbenzene	101		102		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03,17 Batch: WG698014-1 WG698014-2								
Chloromethane	100		102		70-130	2		20
Bromomethane	90		93		70-130	3		20
Vinyl chloride	117		120		70-130	3		20
Chloroethane	107		107		70-130	0		20
1,1-Dichloroethene	101		103		70-130	2		20
trans-1,2-Dichloroethene	93		95		70-130	2		20
Trichloroethene	97		98		70-130	1		20
1,2-Dichlorobenzene	94		96		70-130	2		20
1,3-Dichlorobenzene	95		96		70-130	1		20
1,4-Dichlorobenzene	93		94		70-130	1		20
Methyl tert butyl ether	87		90		70-130	3		20
p/m-Xylene	99		100		70-130	1		20
o-Xylene	98		98		70-130	0		20
cis-1,2-Dichloroethene	93		95		70-130	2		20
Dibromomethane	92		94		70-130	2		20
1,2,3-Trichloropropane	93		94		70-130	1		20
Styrene	104		105		70-130	1		20
Dichlorodifluoromethane	103		108		70-130	5		20
Acetone	96		94		70-130	2		20
Carbon disulfide	96		98		70-130	2		20
2-Butanone	91		92		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03,17 Batch: WG698014-1 WG698014-2								
4-Methyl-2-pentanone	88		91		70-130	3		20
2-Hexanone	89		93		70-130	4		20
Bromochloromethane	93		96		70-130	3		20
Tetrahydrofuran	93		95		70-130	2		20
2,2-Dichloropropane	82		84		70-130	2		20
1,2-Dibromoethane	90		93		70-130	3		20
1,3-Dichloropropane	92		95		70-130	3		20
1,1,1,2-Tetrachloroethane	82		85		70-130	4		20
Bromobenzene	93		94		70-130	1		20
n-Butylbenzene	95		94		70-130	1		20
sec-Butylbenzene	104		102		70-130	2		20
tert-Butylbenzene	102		101		70-130	1		20
o-Chlorotoluene	97		98		70-130	1		20
p-Chlorotoluene	96		97		70-130	1		20
1,2-Dibromo-3-chloropropane	76		80		70-130	5		20
Hexachlorobutadiene	91		91		70-130	0		20
Isopropylbenzene	112		111		70-130	1		20
p-Isopropyltoluene	103		101		70-130	2		20
Naphthalene	81		81		70-130	0		20
n-Propylbenzene	102		102		70-130	0		20
1,2,3-Trichlorobenzene	80		79		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03,17 Batch: WG698014-1 WG698014-2								
1,2,4-Trichlorobenzene	80		80		70-130	0		20
1,3,5-Trimethylbenzene	98		98		70-130	0		20
1,2,4-Trimethylbenzene	96		95		70-130	1		20
Ethyl ether	94		96		70-130	2		20
Isopropyl Ether	97		99		70-130	2		20
Ethyl-Tert-Butyl-Ether	82		84		70-130	2		20
Tertiary-Amyl Methyl Ether	81		83		70-130	2		20
1,4-Dioxane	95		100		70-130	5		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	99		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04-05,07,11-14,16,18 Batch: WG698122-1 WG698122-2								
Methylene chloride	89		90		70-130	1		20
1,1-Dichloroethane	95		95		70-130	0		20
Chloroform	96		96		70-130	0		20
Carbon tetrachloride	89		91		70-130	2		20
1,2-Dichloropropane	92		92		70-130	0		20
Dibromochloromethane	84		83		70-130	1		20
1,1,2-Trichloroethane	88		85		70-130	3		20
Tetrachloroethene	101		99		70-130	2		20
Chlorobenzene	96		95		70-130	1		20
Trichlorofluoromethane	102		102		70-130	0		20
1,2-Dichloroethane	90		89		70-130	1		20
1,1,1-Trichloroethane	94		94		70-130	0		20
Bromodichloromethane	89		89		70-130	0		20
trans-1,3-Dichloropropene	75		76		70-130	1		20
cis-1,3-Dichloropropene	83		83		70-130	0		20
1,1-Dichloropropene	99		99		70-130	0		20
Bromoform	74		75		70-130	1		20
1,1,2,2-Tetrachloroethane	83		83		70-130	0		20
Benzene	100		99		70-130	1		20
Toluene	98		97		70-130	1		20
Ethylbenzene	102		101		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04-05,07,11-14,16,18 Batch: WG698122-1 WG698122-2								
Chloromethane	90		88		70-130	2		20
Bromomethane	91		91		70-130	0		20
Vinyl chloride	105		105		70-130	0		20
Chloroethane	96		97		70-130	1		20
1,1-Dichloroethene	95		95		70-130	0		20
trans-1,2-Dichloroethene	91		91		70-130	0		20
Trichloroethene	97		96		70-130	1		20
1,2-Dichlorobenzene	92		90		70-130	2		20
1,3-Dichlorobenzene	95		94		70-130	1		20
1,4-Dichlorobenzene	93		93		70-130	0		20
Methyl tert butyl ether	76		77		70-130	1		20
p/m-Xylene	100		99		70-130	1		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	91		91		70-130	0		20
Dibromomethane	86		86		70-130	0		20
1,2,3-Trichloropropane	83		84		70-130	1		20
Styrene	103		102		70-130	1		20
Dichlorodifluoromethane	94		92		70-130	2		20
Acetone	93		90		70-130	3		20
Carbon disulfide	89		88		70-130	1		20
2-Butanone	90		88		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04-05,07,11-14,16,18 Batch: WG698122-1 WG698122-2								
4-Methyl-2-pentanone	75		75		70-130	0		20
2-Hexanone	79		77		70-130	3		20
Bromochloromethane	88		86		70-130	2		20
Tetrahydrofuran	76		74		70-130	3		20
2,2-Dichloropropane	87		87		70-130	0		20
1,2-Dibromoethane	83		83		70-130	0		20
1,3-Dichloropropane	88		87		70-130	1		20
1,1,1,2-Tetrachloroethane	84		84		70-130	0		20
Bromobenzene	92		91		70-130	1		20
n-Butylbenzene	100		98		70-130	2		20
sec-Butylbenzene	110		107		70-130	3		20
tert-Butylbenzene	106		105		70-130	1		20
o-Chlorotoluene	98		98		70-130	0		20
p-Chlorotoluene	98		97		70-130	1		20
1,2-Dibromo-3-chloropropane	71		72		70-130	1		20
Hexachlorobutadiene	98		97		70-130	1		20
Isopropylbenzene	114		112		70-130	2		20
p-Isopropyltoluene	107		105		70-130	2		20
Naphthalene	72		72		70-130	0		20
n-Propylbenzene	106		105		70-130	1		20
1,2,3-Trichlorobenzene	72		71		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 04-05,07,11-14,16,18 Batch: WG698122-1 WG698122-2								
1,2,4-Trichlorobenzene	77		75		70-130	3		20
1,3,5-Trimethylbenzene	100		99		70-130	1		20
1,2,4-Trimethylbenzene	97		98		70-130	1		20
Ethyl ether	83		82		70-130	1		20
Isopropyl Ether	92		91		70-130	1		20
Ethyl-Tert-Butyl-Ether	76		75		70-130	1		20
Tertiary-Amyl Methyl Ether	73		73		70-130	0		20
1,4-Dioxane	70		72		70-130	3		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	99		98		70-130

METALS

Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-06

Date Collected: 06/10/14 10:15

Client ID: LR-MW-121

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	ND		mg/l	0.0005	--	1	06/16/14 09:03	06/16/14 19:37	NA	97,6020A	BM



Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-08

Date Collected: 06/10/14 12:10

Client ID: MW-705S

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.0005		mg/l	0.0005	--	1	06/16/14 09:03	06/16/14 19:43	NA	97,6020A	BM



Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-09

Date Collected: 06/10/14 12:30

Client ID: MB-MW-371

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.0015		mg/l	0.0005	--	1	06/16/14 09:03	06/16/14 19:49	NA	97,6020A	BM



Project Name: BIRD MACHINE**Lab Number:** L1412609**Project Number:** 0146790000**Report Date:** 06/17/14**SAMPLE RESULTS**

Lab ID: L1412609-10

Date Collected: 06/10/14 12:45

Client ID: LR-MW-122

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.0202		mg/l	0.0005	--	1	06/16/14 09:03	06/16/14 19:56	NA	97,6020A	BM



Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

SAMPLE RESULTS

Lab ID: L1412609-15

Date Collected: 06/10/14 00:00

Client ID: DUP-1

Date Received: 06/10/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.0007		mg/l	0.0005	--	1	06/16/14 09:03	06/16/14 20:02	NA	97,6020A	BM



Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 06,08-10,15 Batch: WG698080-1									
Arsenic, Dissolved	ND	mg/l	0.0005	--	1	06/16/14 09:03	06/16/14 18:40	97,6020A	BM

Prep Information

Digestion Method: NA

Lab Control Sample Analysis Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 06,08-10,15 Batch: WG698080-2 WG698080-3								
Arsenic, Dissolved	95		97		80-120	2		20



Project Name: BIRD MACHINE

Lab Number: L1412609

Project Number: 0146790000

Report Date: 06/17/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1412609-01A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-01B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-01C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-02A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-02B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-02C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-03A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-03B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-03C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-04A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-04B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-04C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-05A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-05B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-05C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-06A	Plastic 250ml HNO3 preserved	A	<2	5.0	Y	Absent	MCP-AS-6020S-10(180)
L1412609-07A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-07B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-07C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-08A	Plastic 250ml HNO3 preserved	A	<2	5.0	Y	Absent	MCP-AS-6020S-10(180)
L1412609-09A	Plastic 250ml HNO3 preserved	A	<2	5.0	Y	Absent	MCP-AS-6020S-10(180)
L1412609-10A	Plastic 250ml HNO3 preserved	A	<2	5.0	Y	Absent	MCP-AS-6020S-10(180)
L1412609-11A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-11B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-11C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-12A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-12B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days



Project Name: BIRD MACHINE

Project Number: 0146790000

Lab Number: L1412609

Report Date: 06/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1412609-12C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-13A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-13B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-13C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-14A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-14B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-14C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-15A	Plastic 250ml HNO3 preserved	A	<2	5.0	Y	Absent	MCP-AS-6020S-10(180)
L1412609-16A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-16B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-16C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-17A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-18A	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-18B	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)
L1412609-18C	Vial HCl preserved	A	N/A	5.0	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a "Total" result is defined as the summation of results for individual isomers or Aroclors. If a "Total" result is requested, the results of its individual components will also be reported. This is applicable to "Total" results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.

Report Format: Data Usability Report



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

Data Qualifiers

- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412609
Report Date: 06/17/14

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 2

Serial No 06171415:44

Date Rec'd in Lab: 6/10/14ALPHA Job #: L1412609

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project InformationProject Name: Bird MachineProject Location: South Walpole, MAProject #: 014679000Project Manager: Craig Keating

ALPHA Quote #:

Turn-Around Time Standard RUSH (only confirmed if pre-approved!)Date Due: 6/17/14**Report Information - Data Deliverables** ADEX EMAIL**Billing Information** Same as Client Info PO #:**Client Information**Client: AMECAddress: 271 Mill Road,
Chelmsford, MAPhone: 978-692-9090Email: Denise.King@Amec.com

Additional Project Information:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods

Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

Yes No GW1 Standards (Info Required for Metals & EPH with Targets)

Yes No NPDES RGP

Other State /Fed Program MA MCP Criteria Gu-1

ANALYSIS	VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 824.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> MCP 15	EPH: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	SAMPLE INFO Filtration <input checked="" type="checkbox"/> Field <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do	TOTAL # BOTTLES
	Disolve in AS								

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS										Sample Comments	TOTAL # BOTTLES	
		Date	Time			VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Other				
12009-01	MW-702B	6/9/14	1310	GW	DLC	X												3
02	MW-709D	6/9/14	1400	GW	MAM	X												3
03	MW-702D	6/9/14	1415	GW	DLC	X												3
04	ND-MW-601	6/9/14	1535	GW	DLC	X												3
05	MW-709S	6/9/14	1600	GW	MAM	X												3
06	LR-MW-121	6/10/14	1015	GW	MAM								X					1
07	MW-701S	6/10/14	1125	GW	MAM	X												3
08	MW-705S	6/10/14	1210	GW	DLC								X					1
09	MB-MW-371	6/10/14	1230	GW	MAM								X					1
10	LR-MW-122	6/10/14	1245	GW	MAM								X					1

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type VPreservative BPCRelinquished By: [Signature]Date/Time: 6/10/14 1713Received By: [Signature]Date/Time: 6/10/14 1713

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 2 OF 2

Serial No 06171415-44

Date Rec'd in Lab: 6/10/14

ALPHA Job #: L1412609

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: Bird Machine

Project Location: South Walpole, MA

Project #: 0146790000

Project Manager: Craig Keating

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: Amec

Address: 271 M.H. Rd.
Chelmsford, MA

Phone: 978-692-9090

Email: Denise.King@Amec.com

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/17/14

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods

Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

Yes No GW1 Standards (Info Required for Metals & EPH with Targets)

Yes No NPDES RGP

Other State / Fed Program Criteria

Additional Project Information:

ANALYSIS		SAMPLE INFO
VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	Filtration	
SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	<input checked="" type="checkbox"/> Field	<input type="checkbox"/> Lab to do
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	Preservation	<input type="checkbox"/> Lab to do
METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8		
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		
<input type="checkbox"/> PCB <input type="checkbox"/> PEST		
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		
<u>Disposal AS</u>		
	TOTAL # BOTTLES	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	X											Sample Comments	TOTAL # BOTTLES
		Date	Time															
12609-11	MW-711s	6/10/14	1330	GW	DLC	X												3
12	LR-MW-124	6/10/14	1450	GW	MAM	X												3
13	MW-711D	6/10/14	1450	GW	DLC	X												3
14	MW-700s	6/10/14	1510	GW	DLC	X												3
15	Dup-1 (MW)	6/10/14	-	GW	MAM								X					1
16	Dup-2	6/10/14	-	GW	DLC	X												3
17	Tripblank-01	6/10/14	-	GW	-	X												1
18	LR-MW-124	6/10/14	1620	GW	MAM	X												3

Container Type P= Plastic A= Amber glass V= Vial G= Glass B= Bacteria cup C= Cube O= Other E= Encore D= BOD Bottle	Preservative A= None B= HCl C= HNO ₃ D= H ₂ SO ₄ E= NaOH F= MeOH G= NaHSO ₄ H= Na ₂ S ₂ O ₃ I= Ascorbic Acid J= NH ₄ Cl K= Zn Acetate O= Other	Container Type	V							P
		Preservative	B							

Relinquished By:	Date/Time	Received By:	Date/Time	All samples submitted are subject to Alpha's Terms and Conditions. See reverse side. FORM NO: 01-01 (rev. 12-Mar-2012)
<u>[Signature]</u>	6/10/14 1713	<u>[Signature]</u> DAL	6/10/14 1713	

7A
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412609

Instrument ID: Quimby.i Calibration Date: 16-JUN-2014 Time: 05:28

Lab File ID: 0616A04 Init. Calib. Date(s): 12-JUN-2 12-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 08:51 16:15

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
=====	=====	=====	=====	=====	=====	
dichlorodifluoromethane	.44452	.41641	.1	-6	20	
chloromethane	.73556	.65951	.1	-10	20	
vinyl chloride	.54314	.57267	.1	5	20	
bromomethane	.36208	.32808	.1	-9	20	
chloroethane	.40701	.39263	.1	-4	20	
trichlorofluoromethane	.79213	.80492	.1	2	20	
ethyl ether	.2293	.19103	.05	-17	20	
acetone	.10348	.09616	.1	-7	20	
1,1,-dichloroethene	.45467	.4322	.1	-5	20	
methylene chloride	.56599	.50522	.1	-11	20	
carbon disulfide	1.3212	1.1706	.1	-11	20	
methyl tert butyl ether	1.0277	.78655	.1	-23	20	F
trans-1,2-dichloroethene	.53743	.48871	.1	-9	20	
Diisopropyl Ether	1.9277	1.7753	.05	-8	20	
1,1-dichloroethane	1.0247	.97822	.2	-5	20	
Ethyl-Tert-Butyl-Ether	1.4308	1.0836	.05	-24	20	F
2-butanone	.16755	.15071	.1	-10	20	
2,2-dichloropropane	.54442	.47537	.05	-13	20	
cis-1,2-dichloroethene	.58934	.53822	.1	-9	20	
chloroform	.91243	.87373	.2	-4	20	
bromochloromethane	.24868	.21765	.05	-12	20	
tetrahydrofuran	.10858	.08297	.05	-24	20	F
1,1,1-trichloroethane	.72573	.68487	.1	-6	20	
1,1-dichloropropene	.75677	.75213	.05	-1	20	
carbontetrachloride	.56653	.50562	.1	-11	20	
Tertiary-Amyl Methyl Ether	1.1081	.81134	.05	-27	20	F
1,2-dichloroethane	.68324	.61384	.1	-10	20	
benzene	2.1047	2.1114	.5	0	20	
trichloroethene	.55473	.53679	.2	-3	20	
1,2-dichloropropane	.60488	.55426	.1	-8	20	
bromodichloromethane	.66268	.5925	.2	-11	20	
1,4-dioxane	.00342	.00239	.05	-30	20	F
dibromomethane	.27393	.23469	.05	-14	20	
4-methyl-2-pentanone	.15406	.11599	.1	-25	20	F
cis-1,3-dichloropropene	.75881	.62906	.2	-17	20	
toluene	1.6512	1.6166	.4	-2	20	
trans-1,3-dichloropropene	.72182	.54219	.1	-25	20	F
1,1,2-trichloroethane	.39915	.34976	.1	-12	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412609

Instrument ID: Quimby.i Calibration Date: 16-JUN-2014 Time: 05:28

Lab File ID: 0616A04 Init. Calib. Date(s): 12-JUN-2 12-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 08:51 16:15

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
2-hexanone	.3065	.24197	.1	-21	20	F
1,3-dichloropropane	.83745	.73823	.05	-12	20	
tetrachloroethene	.72244	.73125	.2	1	20	
chlorodibromomethane	.49762	.41685	.1	-16	20	
1,2-dibromoethane	.46218	.38511	.1	-17	20	
chlorobenzene	1.8734	1.8021	.5	-4	20	
1,1,1,2-tetrachloroethane	.6038	.50964	.05	-16	20	
ethyl benzene	3.2441	3.3176	.1	2	20	
p/m xylene	1.3689	1.3708	.1	0	20	
o xylene	1.3394	1.3121	.3	-2	20	
styrene	2.1061	2.1710	.31	3	20	
isopropylbenzene	3.0653	3.4946	.1	14	20	
bromoform	.53157	.39548	.1	-26	20	F
1,1,2,2,-tetrachloroethane	1.0046	.83788	.3	-17	20	
1,2,3-trichloropropane	.77538	.64582	.05	-17	20	
n-propylbenzene	6.4350	6.8500	.05	6	20	
bromobenzene	1.5711	1.4386	.05	-8	20	
1,3,5-trimethylbenzene	4.7985	4.8170	.05	0	20	
2-chlorotoluene	4.8206	4.7470	.05	-2	20	
4-chlorotoluene	4.3788	4.2869	.05	-2	20	
tert-butylbenzene	3.8813	4.1083	.05	6	20	
1,2,4-trimethylbenzene	4.4563	4.3405	.05	-3	20	
sec-butylbenzene	5.4794	6.0003	.05	10	20	
p-isopropyltoluene	4.2754	4.5704	.05	7	20	
1,3-dichlorobenzene	2.9981	2.8518	.6	-5	20	
1,4-dichlorobenzene	2.9684	2.768	.5	-7	20	
n-butylbenzene	4.1308	4.1126	.05	0	20	
1,2-dichlorobenzene	2.7002	2.4850	.4	-8	20	
1,2-dibromo-3-chloropropane	.13075	.09234	.05	-29	20	F
1,2,4-trichlorobenzene	1.2711	.97896	.2	-23	20	F
hexachlorobutadiene	.55088	.53943	.05	-2	20	
naphthalene	1.9582	1.4174	.05	-28	20	F
1,2,3-trichlorobenzene	.99057	.70807	.05	-29	20	F
dibromofluoromethane	.24024	.23795	.05	-1	20	
1,2-dichloroethane-d4	.26338	.2575	.05	-2	20	
toluene-d8	1.1728	1.1933	.05	2	20	
4-bromofluorobenzene	.88618	.89505	.05	1	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412609

Instrument ID: Quimby.i Calibration Date: 14-JUN-2014 Time: 09:45

Lab File ID: 0614A03 Init. Calib. Date(s): 12-JUN-2 12-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 08:51 16:15

Compound	RRF	RRF	MIN RRF	%D	MAX %D
dichlorodifluoromethane	.44452	.45738	.1	3	20
chloromethane	.73556	.73846	.1	0	20
vinyl chloride	.54314	.63529	.1	17	20
bromomethane	.36208	.32774	.1	-9	20
chloroethane	.40701	.4339	.1	7	20
trichlorofluoromethane	.79213	.8754	.1	11	20
ethyl ether	.2293	.21649	.05	-6	20
acrolein	.06739	.05708	.05	-15	20
freon-113	.48885	.50633	.1	4	20
acetone	.10348	.09931	.1	-4	20
1,1,-dichloroethene	.45467	.45842	.1	1	20
tert-butyl alcohol	.02508	.01958	.05	-22	20
iodomethane	.49399	.40058	.05	-19	20
methyl acetate	.25303	.23319	.01	-8	20
methylene chloride	.56599	.52453	.1	-7	20
carbon disulfide	1.3212	1.2653	.1	-4	20
acrylonitrile	.15363	.14015	.05	-9	20
methyl tert butyl ether	1.0277	.89607	.1	-13	20
Halothane	.36971	.37143	.05	0	20
trans-1,2-dichloroethene	.53743	.50138	.1	-7	20
Diisopropyl Ether	1.9277	1.8719	.05	-3	20
vinyl acetate	.85427	.73088	.05	-14	20
1,1-dichloroethane	1.0247	.99618	.2	-3	20
Ethyl-Tert-Butyl-Ether	1.4308	1.1683	.05	-18	20
2-butanone	.16755	.15242	.1	-9	20
2,2-dichloropropane	.54442	.44819	.05	-18	20
ethyl acetate	.14332	.12452	.05	-13	20
cis-1,2-dichloroethene	.58934	.54948	.1	-7	20
chloroform	.91243	.88658	.2	-3	20
bromochloromethane	.24868	.23029	.05	-7	20
tetrahydrofuran	.10858	.10097	.05	-7	20
1,1,1-trichloroethane	.72573	.68261	.1	-6	20
cyclohexane	1.1329	1.2027	.01	6	30
1,1-dichloropropene	.75677	.77269	.05	2	20
carbontetrachloride	.56653	.49344	.1	-13	20
Tertiary-Amyl Methyl Ether	1.1081	.89506	.05	-19	20
1,2-dichloroethane	.68324	.65421	.1	-4	20
benzene	2.1047	2.1408	.5	2	20

F

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412609

Instrument ID: Quimby.i Calibration Date: 14-JUN-2014 Time: 09:45

Lab File ID: 0614A03 Init. Calib. Date(s): 12-JUN-2 12-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 08:51 16:15

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
trichloroethene	.55473	.53717	.2	-3	20
methyl cyclohexane	.84077	.94085	.01	12	30
1,2-dichloropropane	.60488	.56202	.1	-7	20
bromodichloromethane	.66268	.59421	.2	-10	20
1,4-dioxane	.00342	.00324	.05	-5	20
dibromomethane	.27393	.251	.05	-8	20
2-chloroethylvinyl ether	.28002	.25378	.05	-9	20
4-methyl-2-pentanone	.15406	.13557	.1	-12	20
cis-1,3-dichloropropene	.75881	.62414	.2	-18	20
toluene	1.6512	1.6164	.4	-2	20
ethyl-methacrylate	.61692	.5406	.01	-12	30
trans-1,3-dichloropropene	.72182	.54773	.1	-24	20
2-hexanone	.3065	.27389	.1	-11	20
1,1,2-trichloroethane	.39915	.36732	.1	-8	20
1,3-dichloropropane	.83745	.77338	.05	-8	20
tetrachloroethene	.72244	.72273	.2	0	20
chlorodibromomethane	.49762	.41273	.1	-17	20
1,2-dibromoethane	.46218	.41654	.1	-10	20
chlorobenzene	1.8734	1.8008	.5	-4	20
1,1,1,2-tetrachloroethane	.6038	.4942	.05	-18	20
ethyl benzene	3.2441	3.2833	.1	1	20
p/m xylene	1.3689	1.3499	.1	-1	20
o xylene	1.3394	1.3156	.3	-2	20
styrene	2.1061	2.2019	.31	5	20
isopropylbenzene	3.0653	3.4350	.1	12	20
bromoform	.53157	.3822	.1	-28	20
1,4-dichlorobutane	1.8475	1.6956	.01	-8	20
1,1,2,2,-tetrachloroethane	1.0046	.92712	.3	-8	20
1,2,3-trichloropropane	.77538	.71767	.05	-7	20
trans-1,4-dichloro-2-butene	.32157	.21961	.05	-32	20
n-propylbenzene	6.4350	6.5995	.05	3	20
bromobenzene	1.5711	1.4558	.05	-7	20
4-ethyltoluene	2.7561	2.8432	.05	3	20
1,3,5-trimethylbenzene	4.7985	4.6887	.05	-2	20
2-chlorotoluene	4.8206	4.6596	.05	-3	20
4-chlorotoluene	4.3788	4.2048	.05	-4	20
tert-butylbenzene	3.8813	3.9519	.05	2	20
1,2,4-trimethylbenzene	4.4563	4.2947	.05	-4	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412609

Instrument ID: Quimby.i Calibration Date: 14-JUN-2014 Time: 09:45

Lab File ID: 0614A03 Init. Calib. Date(s): 12-JUN-2 12-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 08:51 16:15

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
sec-butylbenzene	5.4794	5.7307	.05	5	20
p-isopropyltoluene	4.2754	4.3919	.05	3	20
1,3-dichlorobenzene	2.9981	2.8385	.6	-5	20
1,4-dichlorobenzene	2.9684	2.7721	.5	-7	20
n-butylbenzene	4.1308	3.9395	.05	-5	20
1,2,4,5-tetramethylbenzene	1.2336	1.1434	.05	-7	20
1,2-dichlorobenzene	2.7002	2.5264	.4	-6	20
p-diethylbenzene	1.6364	1.5801	.05	-3	20
1,2-dibromo-3-chloropropane	.13075	.09977	.05	-24	20
1,3,5-trichlorobenzene	1.5686	1.3504	.01	-14	30
1,2,4-trichlorobenzene	1.2711	1.0234	.2	-19	20
hexachlorobutadiene	.55088	.50301	.05	-9	20
naphthalene	1.9582	1.5819	.05	-19	20
1,2,3-trichlorobenzene	.99057	.78916	.05	-20	20
=====	=====	=====	=====	=====	=====
dibromofluoromethane	.24024	.23757	.05	-1	20
1,2-dichloroethane-d4	.26338	.26631	.05	1	20
toluene-d8	1.1728	1.1798	.05	1	20
4-bromofluorobenzene	.88618	.88584	.05	0	20

F

F



ANALYTICAL REPORT

Lab Number:	L1412849
Client:	AMEC Earth & Environmental 271 Mill Road 3rd Floor Chelmsford, MA 01824
ATTN:	Craig Keating
Phone:	(978) 392-5337
Project Name:	BIRD MACHINE
Project Number:	0146790000
Report Date:	06/19/14

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1412849-01	MW-710S	SOUTH WALPOLE, MA	06/11/14 09:55
L1412849-02	MW-707D	SOUTH WALPOLE, MA	06/11/14 10:00
L1412849-03	MW-710M	SOUTH WALPOLE, MA	06/11/14 12:00
L1412849-04	MW-708D	SOUTH WALPOLE, MA	06/11/14 12:20
L1412849-05	MW-708B	SOUTH WALPOLE, MA	06/11/14 13:20
L1412849-06	MW-714S	SOUTH WALPOLE, MA	06/11/14 14:20
L1412849-07	MW-714D	SOUTH WALPOLE, MA	06/11/14 15:05
L1412849-08	MW-703S	SOUTH WALPOLE, MA	06/11/14 15:20
L1412849-09	MW-706	SOUTH WALPOLE, MA	06/11/14 15:30
L1412849-10	NP-MW-603	SOUTH WALPOLE, MA	06/11/14 15:40
L1412849-11	MW-704D	SOUTH WALPOLE, MA	06/11/14 15:45
L1412849-12	MW-704S	SOUTH WALPOLE, MA	06/12/14 08:50
L1412849-13	NP-MW-602	SOUTH WALPOLE, MA	06/12/14 09:55
L1412849-14	MB-MW-361	SOUTH WALPOLE, MA	06/12/14 10:05
L1412849-15	MB-MW-360	SOUTH WALPOLE, MA	06/12/14 11:30
L1412849-16	MW-713S	SOUTH WALPOLE, MA	06/12/14 12:15
L1412849-17	MW-713D	SOUTH WALPOLE, MA	06/12/14 13:50
L1412849-18	MW-715S	SOUTH WALPOLE, MA	06/12/14 14:35
L1412849-19	DUP-3	SOUTH WALPOLE, MA	06/12/14 00:00
L1412849-20	TRIPBLANK-2	SOUTH WALPOLE, MA	06/11/14 00:00

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

L1412849-08 and -09 were field filtered for Dissolved Metals.

Volatile Organics

In reference to question H:

The WG698801-1 LCS recovery, associated with L1412849-01 through -07, -10 through-13, and -20, is below the individual acceptance criteria for trans-1,3-dichloropropene (69%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

The WG698801-4/-5 MS/MSD recoveries, performed on L1412849-13, are outside the acceptance criteria for several compounds; however, the associated LCS/LCSD recoveries are within overall method allowances. The results of the sample utilized for the MS/MSD are considered to have a potentially high bias for vinyl chloride (MS at 135%) and a potentially low bias for 2,2-dichloropropane (MS at 68%), ethyl-tert-butyl-ether (61%/68%), and tertiary-amyl methyl ether (MS at 69%).

The initial calibration, associated with L1412849-01 through -07, -10 through-13, and -20, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.00302), as well as the average response factor for 1,4-dioxane.

The initial calibration, associated with L1412849-14 through -19, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.00381), as well as the average response factor for 1,4-dioxane.

The continuing calibration standards, associated with L1412849-01 through -07 and -10 through -20, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

Dissolved Metals

In reference to question H:

The WG698869-4 Laboratory Duplicate RPD, performed on L1412849-09, is outside the acceptance criteria

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14


Case Narrative (continued)

for arsenic (24%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative

Date: 06/19/14

ORGANICS

VOLATILES

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-01
 Client ID: MW-710S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 09:41
 Analyst: MM

Date Collected: 06/11/14 09:55
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	7.2		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	1.9		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	5.4		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-01

Date Collected: 06/11/14 09:55

Client ID: MW-710S

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.4		ug/l	1.0	--	1
1,2-Dichloroethene (total)	3.4		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-01

Date Collected: 06/11/14 09:55

Client ID: MW-710S

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-02
 Client ID: MW-707D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 10:13
 Analyst: MM

Date Collected: 06/11/14 10:00
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	2.9		ug/l	1.0	--	1
Chlorobenzene	1.4		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.6		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-02
 Client ID: MW-707D
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 10:00
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-02
 Client ID: MW-707D
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 10:00
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-03
 Client ID: MW-710M
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 10:45
 Analyst: MM

Date Collected: 06/11/14 12:00
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	10		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	1.2		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	4.2		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-03

Date Collected: 06/11/14 12:00

Client ID: MW-710M

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.5		ug/l	1.0	--	1
1,2-Dichloroethene (total)	2.5		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-03

Date Collected: 06/11/14 12:00

Client ID: MW-710M

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-04
 Client ID: MW-708D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 11:16
 Analyst: MM

Date Collected: 06/11/14 12:20
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-04
 Client ID: MW-708D
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 12:20
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-04
 Client ID: MW-708D
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 12:20
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-05
 Client ID: MW-708B
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 11:48
 Analyst: MM

Date Collected: 06/11/14 13:20
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-05

Date Collected: 06/11/14 13:20

Client ID: MW-708B

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-05

Date Collected: 06/11/14 13:20

Client ID: MW-708B

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-06
 Client ID: MW-714S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 12:20
 Analyst: MM

Date Collected: 06/11/14 14:20
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	3.4		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	2.9		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-06
 Client ID: MW-714S
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 14:20
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	9.2		ug/l	1.0	--	1
1,2-Dichloroethene (total)	9.2		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-06

Date Collected: 06/11/14 14:20

Client ID: MW-714S

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-07
 Client ID: MW-714D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 12:52
 Analyst: MM

Date Collected: 06/11/14 15:05
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-07
 Client ID: MW-714D
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 15:05
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-07

Date Collected: 06/11/14 15:05

Client ID: MW-714D

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-10
 Client ID: NP-MW-603
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 13:24
 Analyst: MM

Date Collected: 06/11/14 15:40
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-10
 Client ID: NP-MW-603
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 15:40
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-10
 Client ID: NP-MW-603
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 15:40
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-11
 Client ID: MW-704D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 13:56
 Analyst: MM

Date Collected: 06/11/14 15:45
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	1.0		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-11
 Client ID: MW-704D
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 15:45
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-11

Date Collected: 06/11/14 15:45

Client ID: MW-704D

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-12
 Client ID: MW-704S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/18/14 14:27
 Analyst: MM

Date Collected: 06/12/14 08:50
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	4.8		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	2.4		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-12

Date Collected: 06/12/14 08:50

Client ID: MW-704S

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-12

Date Collected: 06/12/14 08:50

Client ID: MW-704S

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-13
Client ID: NP-MW-602
Sample Location: SOUTH WALPOLE, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 06/18/14 09:09
Analyst: MM

Date Collected: 06/12/14 09:55
Date Received: 06/12/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-13
 Client ID: NP-MW-602
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/12/14 09:55
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-13

Date Collected: 06/12/14 09:55

Client ID: NP-MW-602

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-14
 Client ID: MB-MW-361
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 05:59
 Analyst: MM

Date Collected: 06/12/14 10:05
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-14
 Client ID: MB-MW-361
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/12/14 10:05
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-14

Date Collected: 06/12/14 10:05

Client ID: MB-MW-361

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-15
 Client ID: MB-MW-360
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 06:32
 Analyst: MM

Date Collected: 06/12/14 11:30
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-15

Date Collected: 06/12/14 11:30

Client ID: MB-MW-360

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-15

Date Collected: 06/12/14 11:30

Client ID: MB-MW-360

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-16
 Client ID: MW-713S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 07:05
 Analyst: MM

Date Collected: 06/12/14 12:15
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	1.6		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-16

Date Collected: 06/12/14 12:15

Client ID: MW-713S

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-16

Date Collected: 06/12/14 12:15

Client ID: MW-713S

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-17
 Client ID: MW-713D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 07:38
 Analyst: MM

Date Collected: 06/12/14 13:50
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	7.5		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	4.8		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-17

Date Collected: 06/12/14 13:50

Client ID: MW-713D

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	5.5		ug/l	1.0	--	1
1,2-Dichloroethene (total)	5.5		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-17
 Client ID: MW-713D
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/12/14 13:50
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-18
 Client ID: MW-715S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 08:11
 Analyst: MM

Date Collected: 06/12/14 14:35
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-18

Date Collected: 06/12/14 14:35

Client ID: MW-715S

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-18
 Client ID: MW-715S
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/12/14 14:35
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-19
 Client ID: DUP-3
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 08:44
 Analyst: MM

Date Collected: 06/12/14 00:00
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-19

Date Collected: 06/12/14 00:00

Client ID: DUP-3

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-19

Date Collected: 06/12/14 00:00

Client ID: DUP-3

Date Received: 06/12/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-20
Client ID: TRIPBLANK-2
Sample Location: SOUTH WALPOLE, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 06/18/14 07:34
Analyst: MM

Date Collected: 06/11/14 00:00
Date Received: 06/12/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-20
 Client ID: TRIPBLANK-2
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 00:00
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412849**Project Number:** 0146790000**Report Date:** 06/19/14**SAMPLE RESULTS**

Lab ID: L1412849-20
 Client ID: TRIPBLANK-2
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/11/14 00:00
 Date Received: 06/12/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/18/14 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-07,10-13,20 Batch: WG698801-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/18/14 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-07,10-13,20 Batch: WG698801-3					
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 06/18/14 07:02
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-07,10-13,20 Batch: WG698801-3					
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/19/14 04:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 14-19 Batch: WG699105-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/19/14 04:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 14-19 Batch: WG699105-3					
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/19/14 04:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 14-19 Batch: WG699105-3					
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-07,10-13,20 Batch: WG698801-1 WG698801-2								
Methylene chloride	85		90		70-130	6		20
1,1-Dichloroethane	93		96		70-130	3		20
Chloroform	93		97		70-130	4		20
Carbon tetrachloride	83		85		70-130	2		20
1,2-Dichloropropane	89		93		70-130	4		20
Dibromochloromethane	80		86		70-130	7		20
1,1,2-Trichloroethane	85		90		70-130	6		20
Tetrachloroethene	88		89		70-130	1		20
Chlorobenzene	90		94		70-130	4		20
Trichlorofluoromethane	112		113		70-130	1		20
1,2-Dichloroethane	90		95		70-130	5		20
1,1,1-Trichloroethane	86		90		70-130	5		20
Bromodichloromethane	88		93		70-130	6		20
trans-1,3-Dichloropropene	69	Q	73		70-130	6		20
cis-1,3-Dichloropropene	78		82		70-130	5		20
1,1-Dichloropropene	91		92		70-130	1		20
Bromoform	70		75		70-130	7		20
1,1,2,2-Tetrachloroethane	86		90		70-130	5		20
Benzene	95		100		70-130	5		20
Toluene	90		94		70-130	4		20
Ethylbenzene	93		96		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-07,10-13,20 Batch: WG698801-1 WG698801-2								
Chloromethane	100		105		70-130	5		20
Bromomethane	93		97		70-130	4		20
Vinyl chloride	119		121		70-130	2		20
Chloroethane	103		106		70-130	3		20
1,1-Dichloroethene	94		95		70-130	1		20
trans-1,2-Dichloroethene	85		87		70-130	2		20
Trichloroethene	89		92		70-130	3		20
1,2-Dichlorobenzene	89		93		70-130	4		20
1,3-Dichlorobenzene	87		92		70-130	6		20
1,4-Dichlorobenzene	86		90		70-130	5		20
Methyl tert butyl ether	81		85		70-130	5		20
p/m-Xylene	91		94		70-130	3		20
o-Xylene	89		92		70-130	3		20
cis-1,2-Dichloroethene	86		88		70-130	2		20
Dibromomethane	86		89		70-130	3		20
1,2,3-Trichloropropane	85		90		70-130	6		20
Styrene	95		98		70-130	3		20
Dichlorodifluoromethane	108		112		70-130	4		20
Acetone	82		89		70-130	8		20
Carbon disulfide	76		79		70-130	4		20
2-Butanone	81		87		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-07,10-13,20 Batch: WG698801-1 WG698801-2								
4-Methyl-2-pentanone	81		87		70-130	7		20
2-Hexanone	82		88		70-130	7		20
Bromochloromethane	85		90		70-130	6		20
Tetrahydrofuran	87		92		70-130	6		20
2,2-Dichloropropane	73		75		70-130	3		20
1,2-Dibromoethane	83		88		70-130	6		20
1,3-Dichloropropane	88		92		70-130	4		20
1,1,1,2-Tetrachloroethane	76		81		70-130	6		20
Bromobenzene	86		91		70-130	6		20
n-Butylbenzene	84		86		70-130	2		20
sec-Butylbenzene	91		93		70-130	2		20
tert-Butylbenzene	91		95		70-130	4		20
o-Chlorotoluene	88		91		70-130	3		20
p-Chlorotoluene	90		94		70-130	4		20
1,2-Dibromo-3-chloropropane	78		84		70-130	7		20
Hexachlorobutadiene	83		85		70-130	2		20
Isopropylbenzene	101		104		70-130	3		20
p-Isopropyltoluene	90		93		70-130	3		20
Naphthalene	76		78		70-130	3		20
n-Propylbenzene	94		96		70-130	2		20
1,2,3-Trichlorobenzene	72		77		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-07,10-13,20 Batch: WG698801-1 WG698801-2								
1,2,4-Trichlorobenzene	74		77		70-130	4		20
1,3,5-Trimethylbenzene	88		92		70-130	4		20
1,2,4-Trimethylbenzene	88		92		70-130	4		20
Ethyl ether	101		106		70-130	5		20
Isopropyl Ether	89		94		70-130	5		20
Ethyl-Tert-Butyl-Ether	72		76		70-130	5		20
Tertiary-Amyl Methyl Ether	72		75		70-130	4		20
1,4-Dioxane	81		87		70-130	7		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	100		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 14-19 Batch: WG699105-1 WG699105-2								
Methylene chloride	84		85		70-130	1		20
1,1-Dichloroethane	90		89		70-130	1		20
Chloroform	96		95		70-130	1		20
Carbon tetrachloride	93		95		70-130	2		20
1,2-Dichloropropane	94		93		70-130	1		20
Dibromochloromethane	92		91		70-130	1		20
1,1,2-Trichloroethane	95		94		70-130	1		20
Tetrachloroethene	107		106		70-130	1		20
Chlorobenzene	100		100		70-130	0		20
Trichlorofluoromethane	77		80		70-130	4		20
1,2-Dichloroethane	97		97		70-130	0		20
1,1,1-Trichloroethane	95		97		70-130	2		20
Bromodichloromethane	91		94		70-130	3		20
trans-1,3-Dichloropropene	92		91		70-130	1		20
cis-1,3-Dichloropropene	91		92		70-130	1		20
1,1-Dichloropropene	96		96		70-130	0		20
Bromoform	86		83		70-130	4		20
1,1,2,2-Tetrachloroethane	94		93		70-130	1		20
Benzene	95		95		70-130	0		20
Toluene	95		96		70-130	1		20
Ethylbenzene	97		97		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 14-19 Batch: WG699105-1 WG699105-2								
Chloromethane	80		82		70-130	2		20
Bromomethane	75		71		70-130	5		20
Vinyl chloride	88		88		70-130	0		20
Chloroethane	79		78		70-130	1		20
1,1-Dichloroethene	80		83		70-130	4		20
trans-1,2-Dichloroethene	86		86		70-130	0		20
Trichloroethene	96		97		70-130	1		20
1,2-Dichlorobenzene	103		100		70-130	3		20
1,3-Dichlorobenzene	101		98		70-130	3		20
1,4-Dichlorobenzene	103		100		70-130	3		20
Methyl tert butyl ether	80		77		70-130	4		20
p/m-Xylene	96		95		70-130	1		20
o-Xylene	96		94		70-130	2		20
cis-1,2-Dichloroethene	98		97		70-130	1		20
Dibromomethane	93		92		70-130	1		20
1,2,3-Trichloropropane	94		93		70-130	1		20
Styrene	92		93		70-130	1		20
Dichlorodifluoromethane	95		98		70-130	3		20
Acetone	83		74		70-130	11		20
Carbon disulfide	76		79		70-130	4		20
2-Butanone	93		86		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 14-19 Batch: WG699105-1 WG699105-2								
4-Methyl-2-pentanone	86		85		70-130	1		20
2-Hexanone	89		89		70-130	0		20
Bromochloromethane	100		95		70-130	5		20
Tetrahydrofuran	81		87		70-130	7		20
2,2-Dichloropropane	99		96		70-130	3		20
1,2-Dibromoethane	94		94		70-130	0		20
1,3-Dichloropropane	94		94		70-130	0		20
1,1,1,2-Tetrachloroethane	93		95		70-130	2		20
Bromobenzene	103		101		70-130	2		20
n-Butylbenzene	100		98		70-130	2		20
sec-Butylbenzene	100		99		70-130	1		20
tert-Butylbenzene	102		100		70-130	2		20
o-Chlorotoluene	95		95		70-130	0		20
p-Chlorotoluene	101		99		70-130	2		20
1,2-Dibromo-3-chloropropane	85		88		70-130	3		20
Hexachlorobutadiene	115		117		70-130	2		20
Isopropylbenzene	99		98		70-130	1		20
p-Isopropyltoluene	101		98		70-130	3		20
Naphthalene	91		88		70-130	3		20
n-Propylbenzene	99		98		70-130	1		20
1,2,3-Trichlorobenzene	99		98		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 14-19 Batch: WG699105-1 WG699105-2								
1,2,4-Trichlorobenzene	104		100		70-130	4		20
1,3,5-Trimethylbenzene	98		97		70-130	1		20
1,2,4-Trimethylbenzene	100		98		70-130	2		20
Ethyl ether	79		77		70-130	3		20
Isopropyl Ether	80		78		70-130	3		20
Ethyl-Tert-Butyl-Ether	90		89		70-130	1		20
Tertiary-Amyl Methyl Ether	90		89		70-130	1		20
1,4-Dioxane	78		78		70-130	0		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	95		97		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	106		104		70-130
Dibromofluoromethane	101		103		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-07,10-13,20 QC Batch ID: WG698801-4 WG698801-5 QC Sample: L1412849-13 Client ID: NP-MW-602												
Methylene chloride	ND	10	9.8	98		9.7	97		70-130	1		20
1,1-Dichloroethane	ND	10	10	103		10	101		70-130	0		20
Chloroform	ND	10	10	104		10	101		70-130	0		20
Carbon tetrachloride	ND	10	10	103		10	105		70-130	0		20
1,2-Dichloropropane	ND	10	9.9	99		9.6	96		70-130	3		20
Dibromochloromethane	ND	10	9.4	94		9.2	92		70-130	2		20
1,1,2-Trichloroethane	ND	10	9.8	98		9.5	95		70-130	3		20
Tetrachloroethene	ND	10	11	106		10	102		70-130	10		20
Chlorobenzene	ND	10	10	101		9.8	99		70-130	2		20
Trichlorofluoromethane	ND	10	13	128		12	123		70-130	8		20
1,2-Dichloroethane	ND	10	10	105		10	101		70-130	0		20
1,1,1-Trichloroethane	ND	10	9.8	98		10	100		70-130	2		20
Bromodichloromethane	ND	10	9.8	99		9.6	97		70-130	2		20
trans-1,3-Dichloropropene	ND	10	7.8	78		7.8	79		70-130	0		20
cis-1,3-Dichloropropene	ND	10	8.6	86		8.6	86		70-130	0		20
1,1-Dichloropropene	ND	10	11	112		11	109		70-130	0		20
Bromoform	ND	10	8.5	85		8.5	86		70-130	0		20
1,1,2,2-Tetrachloroethane	ND	10	9.5	95		9.3	93		70-130	2		20
Benzene	ND	10	11	110		11	106		70-130	0		20
Toluene	ND	10	10	103		9.9	99		70-130	1		20
Ethylbenzene	ND	10	11	108		10	104		70-130	10		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-07,10-13,20 QC Batch ID: WG698801-4 WG698801-5 QC Sample: L1412849-13 Client ID: NP-MW-602												
Chloromethane	ND	10	11	114		11	109		70-130	0		20
Bromomethane	ND	10	9.6	96		10	100		70-130	4		20
Vinyl chloride	ND	10	14	135	Q	13	128		70-130	7		20
Chloroethane	ND	10	12	120		11	115		70-130	9		20
1,1-Dichloroethene	ND	10	11	109		10	106		70-130	10		20
trans-1,2-Dichloroethene	ND	10	9.8	98		9.8	98		70-130	0		20
Trichloroethene	ND	10	10	105		10	102		70-130	0		20
1,2-Dichlorobenzene	ND	10	9.7	97		9.4	94		70-130	3		20
1,3-Dichlorobenzene	ND	10	9.8	98		9.4	94		70-130	4		20
1,4-Dichlorobenzene	ND	10	9.6	96		9.3	93		70-130	3		20
Methyl tert butyl ether	ND	10	7.4	74		7.8	78		70-130	5		20
p/m-Xylene	ND	20	21	105		20	102		70-130	5		20
o-Xylene	ND	20	21	104		20	100		70-130	5		20
cis-1,2-Dichloroethene	ND	10	9.7	97		9.5	96		70-130	2		20
Dibromomethane	ND	10	9.8	98		9.5	95		70-130	3		20
1,2,3-Trichloropropane	ND	10	9.4	94		9.1	91		70-130	3		20
Styrene	ND	20	22	110		21	107		70-130	5		20
Dichlorodifluoromethane	ND	10	11	112		11	109		70-130	0		20
Acetone	ND	10	9.7	97		9.6	96		70-130	1		20
Carbon disulfide	ND	10	10	103		10	101		70-130	0		20
2-Butanone	ND	10	9.3	93		9.3	93		70-130	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-07,10-13,20 QC Batch ID: WG698801-4 WG698801-5 QC Sample: L1412849-13 Client ID: NP-MW-602												
4-Methyl-2-pentanone	ND	10	9.0	90		8.8	88		70-130	2		20
2-Hexanone	ND	10	9.6	96		9.4	94		70-130	2		20
Bromochloromethane	ND	10	9.6	96		9.6	96		70-130	0		20
Tetrahydrofuran	ND	10	9.7	97		9.6	96		70-130	1		20
2,2-Dichloropropane	ND	10	6.8	68	Q	7.4	74		70-130	8		20
1,2-Dibromoethane	ND	10	9.4	94		9.1	91		70-130	3		20
1,3-Dichloropropane	ND	10	9.8	98		9.4	95		70-130	4		20
1,1,1,2-Tetrachloroethane	ND	10	9.2	93		9.0	90		70-130	2		20
Bromobenzene	ND	10	9.3	94		9.1	91		70-130	2		20
n-Butylbenzene	ND	10	10	100		9.6	96		70-130	4		20
sec-Butylbenzene	ND	10	11	110		10	105		70-130	10		20
tert-Butylbenzene	ND	10	11	107		10	102		70-130	10		20
o-Chlorotoluene	ND	10	10	101		9.7	97		70-130	3		20
p-Chlorotoluene	ND	10	10	100		9.6	96		70-130	4		20
1,2-Dibromo-3-chloropropane	ND	10	8.5	85		8.6	86		70-130	1		20
Hexachlorobutadiene	ND	10	9.3	93		9.0	90		70-130	3		20
Isopropylbenzene	ND	10	12	121		12	116		70-130	0		20
p-Isopropyltoluene	ND	10	11	108		10	103		70-130	10		20
Naphthalene	ND	10	8.3	83		7.9	79		70-130	5		20
n-Propylbenzene	ND	10	11	107		10	103		70-130	10		20
1,2,3-Trichlorobenzene	ND	10	8.3	83		8.0	80		70-130	4		20

Matrix Spike Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-07,10-13,20 QC Batch ID: WG698801-4 WG698801-5 QC Sample: L1412849-13 Client ID: NP-MW-602												
1,2,4-Trichlorobenzene	ND	10	8.1	81		7.8	78		70-130	4		20
1,3,5-Trimethylbenzene	ND	10	10	102		9.8	98		70-130	2		20
1,2,4-Trimethylbenzene	ND	10	9.9	99		9.5	95		70-130	4		20
Ethyl ether	ND	10	9.8	98		9.6	96		70-130	2		20
Isopropyl Ether	ND	10	10	100		9.9	99		70-130	1		20
Ethyl-Tert-Butyl-Ether	ND	10	6.1	61	Q	6.8	68	Q	70-130	11		20
Tertiary-Amyl Methyl Ether	ND	10	6.9	69	Q	7.2	72		70-130	4		20
1,4-Dioxane	ND	500	380	75		380	76		70-130	0		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,2-Dichloroethane-d4	105		104		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	101		101		70-130
Toluene-d8	99		100		70-130

METALS

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-08
 Client ID: MW-703S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water

Date Collected: 06/11/14 15:20
 Date Received: 06/12/14
 Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.0008		mg/l	0.0005	--	1	06/18/14 13:29	06/19/14 04:38	NA	97,6020A	BM



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

SAMPLE RESULTS

Lab ID: L1412849-09
 Client ID: MW-706
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water

Date Collected: 06/11/14 15:30
 Date Received: 06/12/14
 Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Arsenic, Dissolved	0.0024		mg/l	0.0005	--	1	06/18/14 13:29	06/19/14 04:44	NA	97,6020A	BM



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 08-09 Batch: WG698869-1									
Arsenic, Dissolved	ND	mg/l	0.0005	--	1	06/18/14 13:29	06/19/14 04:06	97,6020A	BM

Prep Information

Digestion Method: NA

Lab Control Sample Analysis Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 08-09 Batch: WG698869-2 WG698869-3								
Arsenic, Dissolved	98		100		80-120	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 08-09 QC Batch ID: WG698869-5 QC Sample: L1412849-09 Client ID: MW-706												
Arsenic, Dissolved	0.0024	0.12	0.1213	99		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 08-09 QC Batch ID: WG698869-4 QC Sample: L1412849-09 Client ID: MW-706						
Arsenic, Dissolved	0.0024	0.003	mg/l	24	Q	20

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1412849-01A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-01B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-01C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-02A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-02B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-02C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-03A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-03B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-03C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-04A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-04B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-04C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-05A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-05B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-05C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-06A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-06B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-06C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-07A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-07B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-07C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-08A	Plastic 250ml HNO3 preserved	A	<2	2.3	Y	Absent	MCP-AS-6020S-10(180)
L1412849-09A	Plastic 250ml HNO3 preserved	A	<2	2.3	Y	Absent	MCP-AS-6020S-10(180)
L1412849-10A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-10B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-10C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-11A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name: BIRD MACHINE

Lab Number: L1412849

Project Number: 0146790000

Report Date: 06/19/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1412849-11B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-11C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-12A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-12B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-12C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13A1	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13A2	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13B1	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13B2	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13C1	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-13C2	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-14A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-14B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-14C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-15A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-15B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-15C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-16A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-16B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-16C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-17A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-17B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-17C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-18A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-18B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-18C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-19A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-19B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-19C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1412849-20A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.

Report Format: Data Usability Report



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

Data Qualifiers

- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412849
Report Date: 06/19/14

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE 1 OF 2

Serial No: 06191416.51

Date Rec'd in Lab: 6/12/14

ALPHA Job #: 1412849

Project Information

Project Name: Bird Machine
Project Location: South Walpole, MA
Project #: 0146790000
Project Manager: Craig Keating
ALPHA Quote #: _____

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #: _____

Client Information

Client: Amec
Address: 271 Mill Rd.
Chelmsford, MA 01821
Phone: 978.692.9090
Email: Deirdre.King@Amec.com

Additional Project Information:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: 6/19/14

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> MCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PP13	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	SAMPLE INFO	TOTAL # BOTTLES
		Date	Time												
12849-01	MW-710S	6/11/14	955	GW	MAM	X									3
02	MW-707D	6/11/14	1000		DLC	X									3
03	MW-710M	6/11/14	1200		MAM	X									3
04	MW-708D	6/11/14	1220		DLC	X									3
05	MW-708B	6/11/14	1320		DLC	X									3
06	MW-714S	6/11/14	1420		DLC	X									3
07	MW-714D	6/11/14	1505		DLC	X									3
08	MW-703S	6/11/14	1520		DLC								X		1
09	MW-70G	6/11/14	1530		DLC								X		1
08	MW NP-MW-603	6/11/14	1540		↓	DLC	X								3

Container Type	Preservative	Container Type	Preservative
P= Plastic A= Amber glass V= Vial G= Glass B= Bacteria cup C= Cube O= Other E= Encore D= BOD Bottle	A= None B= HCl C= HNO3 D= H2SO4 E= NaOH F= MeOH G= NaHSO4 H= Na2S2O3 I= Ascorbic Acid J= NH4Cl K= Zn Acetate O= Other	✓	B

Relinquished By: [Signature] Date/Time: 6/12/14 1602
Received By: [Signature] Date/Time: 6/12/14 1606

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
FORM NO: 01-01 (rev. 12-Mar-2012)



8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE 2 OF 2

Serial No: 06191416-51

Date Rec'd in Lab: 6/12/14

ALPHA Job #: L1912849

Project Information

Project Name: Bird Machine
Project Location: South Walpole, MA
Project #: 014C790000
Project Manager: Craig Keating
ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: AMEC
Address: 271 Mill Road
Chester, MA 01529
Phone: 978.692.9090
Email: Denise.King@Amec.com

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/19/14

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

Additional Project Information:

ANALYSIS										SAMPLE INFO		TOTAL # BOTTLES	
VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 824.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> MCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	Filtration	Field	Lab to do	Preservation		Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Sample Comments	TOTAL # BOTTLES
		Date	Time												
11849 - 11	MW-704D	6/11/14	1545	GW	MAM	X									3
12	MW-704S	6/12/14	850	GW	MAM	X									3
13	NP-MW-602	6/12/14	955	GW	DLL	X								collected MS/MSD	9
14	MB-MW-361	6/12/14	1005	GW	MAM	X									3
15	MB-MW-360	6/12/14	1130	GW	MAM	X									3
16	MW-713 S	6/12/14	1215	GW	DLL	X									3
	MW-715D	6/12/14	1320	GW	MAM	X								Do not DO.	3
17	MW-713D	6/12/14	1350	GW	MAM	X									3
18	MW-715 S	6/12/14	1435	GW	DLL	X									3
19	OLP-3	6/12/14	-	GW	-	X									3
20	Tripblank - 2	6/12/14	-	GW	-	X									1

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type V
Preservative B

Relinquished By: [Signature] Date/Time: 6/12/14 1609
Received By: [Signature] Date/Time: 6/12/14 16:00

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

4A
VOLATILE ORGANICS METHOD BLANK SUMMARY

SAMPLE NO.

WG698801-3BLANK

Lab Name: Alpha Analytical Labs

SDG No.: L1412849

Lab File ID: 0618A06

Lab Sample ID: WG698801-3

Date Analyzed: 06/18/14

Time Analyzed: 07:02

Instrument ID: QUIMBY.I

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WG698801-1LCS	WG698801-1	0618A03	06/18/14 05:27
02	WG698801-2LCSD	WG698801-2	0618A04	06/18/14 05:59
03	TRIPBLANK - 2	L1412849-20	0618A07	06/18/14 07:34
04	NP-MW-602	L1412849-13	0618A10	06/18/14 09:09
05	MW-710S	L1412849-01	0618A11	06/18/14 09:41
06	MW-707D	L1412849-02	0618A12	06/18/14 10:13
07	MW-710M	L1412849-03	0618A13	06/18/14 10:45
08	MW-708D	L1412849-04	0618A14	06/18/14 11:16
09	MW-708B	L1412849-05	0618A15	06/18/14 11:48
10	MW-714S	L1412849-06	0618A16	06/18/14 12:20
11	MW-714D	L1412849-07	0618A17	06/18/14 12:52
12	NP-MW-603	L1412849-10	0618A18	06/18/14 13:24
13	MW-704D	L1412849-11	0618A19	06/18/14 13:56
14	MW-704S	L1412849-12	0618A20	06/18/14 14:27
15	NP-MW-602MS	WG698801-4	0618A21	06/18/14 14:59
16	NP-MW-602MSD	WG698801-5	0618A22	06/18/14 15:31

COMMENTS: _____

7A
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412849

Instrument ID: Quimby.i Calibration Date: 18-JUN-2014 Time: 05:27

Lab File ID: 0618A03 Init. Calib. Date(s): 12-JUN-2 12-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 08:51 16:15

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
=====	=====	=====	=====	=====	=====	
dichlorodifluoromethane	.44452	.4827	.1	9	20	
chloromethane	.73556	.73195	.1	0	20	
vinyl chloride	.54314	.64575	.1	19	20	
bromomethane	.36208	.33623	.1	-7	20	
chloroethane	.40701	.41794	.1	3	20	
trichlorofluoromethane	.79213	.88826	.1	12	20	
ethyl ether	.2293	.23145	.05	1	20	
acetone	.10348	.08484	.1	-18	20	
1,1,-dichloroethene	.45467	.42985	.1	-5	20	
methylene chloride	.56599	.48164	.1	-15	20	
carbon disulfide	1.3212	1.0098	.1	-24	20	F
methyl tert butyl ether	1.0277	.83155	.1	-19	20	
trans-1,2-dichloroethene	.53743	.4549	.1	-15	20	
Diisopropyl Ether	1.9277	1.7234	.05	-11	20	
1,1-dichloroethane	1.0247	.95105	.2	-7	20	
Ethyl-Tert-Butyl-Ether	1.4308	1.0271	.05	-28	20	F
2-butanone	.16755	.13504	.1	-19	20	
2,2-dichloropropane	.54442	.39674	.05	-27	20	F
cis-1,2-dichloroethene	.58934	.50649	.1	-14	20	
chloroform	.91243	.84968	.2	-7	20	
bromochloromethane	.24868	.21172	.05	-15	20	
tetrahydrofuran	.10858	.09444	.05	-13	20	
1,1,1-trichloroethane	.72573	.62769	.1	-14	20	
1,1-dichloropropene	.75677	.68814	.05	-9	20	
carbontetrachloride	.56653	.47051	.1	-17	20	
Tertiary-Amyl Methyl Ether	1.1081	.79328	.05	-28	20	F
1,2-dichloroethane	.68324	.6175	.1	-10	20	
benzene	2.1047	1.9928	.5	-5	20	
trichloroethene	.55473	.49418	.2	-11	20	
1,2-dichloropropane	.60488	.53618	.1	-11	20	
bromodichloromethane	.66268	.5839	.2	-12	20	
1,4-dioxane	.00342	.00278	.05	-19	20	F
dibromomethane	.27393	.23604	.05	-14	20	
4-methyl-2-pentanone	.15406	.12543	.1	-19	20	
cis-1,3-dichloropropene	.75881	.58931	.2	-22	20	F
toluene	1.6512	1.4912	.4	-10	20	
trans-1,3-dichloropropene	.72182	.50112	.1	-31	20	F
1,1,2-trichloroethane	.39915	.33806	.1	-15	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412849

Instrument ID: Quimby.i Calibration Date: 18-JUN-2014 Time: 05:27

Lab File ID: 0618A03 Init. Calib. Date(s): 12-JUN-2 12-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 08:51 16:15

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
=====	=====	=====	=====	=====	=====	
2-hexanone	.3065	.25272	.1	-18	20	
1,3-dichloropropane	.83745	.73361	.05	-12	20	
tetrachloroethene	.72244	.63604	.2	-12	20	
chlorodibromomethane	.49762	.39782	.1	-20	20	F
1,2-dibromoethane	.46218	.38155	.1	-17	20	
chlorobenzene	1.8734	1.6954	.5	-10	20	
1,1,1,2-tetrachloroethane	.6038	.46212	.05	-23	20	F
ethyl benzene	3.2441	3.0094	.1	-7	20	
p/m xylene	1.3689	1.2401	.1	-9	20	
o xylene	1.3394	1.1882	.3	-11	20	
styrene	2.1061	1.9940	.31	-5	20	
isopropylbenzene	3.0653	3.1000	.1	1	20	
bromoform	.53157	.37502	.1	-29	20	F
1,1,2,2,-tetrachloroethane	1.0046	.86635	.3	-14	20	
1,2,3-trichloropropane	.77538	.65963	.05	-15	20	
n-propylbenzene	6.4350	6.0587	.05	-6	20	
bromobenzene	1.5711	1.3592	.05	-13	20	
1,3,5-trimethylbenzene	4.7985	4.2417	.05	-12	20	
2-chlorotoluene	4.8206	4.2301	.05	-12	20	
4-chlorotoluene	4.3788	3.9617	.05	-10	20	
tert-butylbenzene	3.8813	3.5496	.05	-9	20	
1,2,4-trimethylbenzene	4.4563	3.9113	.05	-12	20	
sec-butylbenzene	5.4794	4.9922	.05	-9	20	
p-isopropyltoluene	4.2754	3.8694	.05	-9	20	
1,3-dichlorobenzene	2.9981	2.6136	.6	-13	20	
1,4-dichlorobenzene	2.9684	2.5506	.5	-14	20	
n-butylbenzene	4.1308	3.4553	.05	-16	20	
1,2-dichlorobenzene	2.7002	2.4011	.4	-11	20	
1,2-dibromo-3-chloropropane	.13075	.10214	.05	-22	20	F
1,2,4-trichlorobenzene	1.2711	.93399	.2	-27	20	F
hexachlorobutadiene	.55088	.45506	.05	-17	20	
naphthalene	1.9582	1.4785	.05	-24	20	F
1,2,3-trichlorobenzene	.99057	.71646	.05	-28	20	F
=====	=====	=====	=====	=====	=====	
dibromofluoromethane	.24024	.24005	.05	0	20	
1,2-dichloroethane-d4	.26338	.2633	.05	0	20	
toluene-d8	1.1728	1.1732	.05	0	20	
4-bromofluorobenzene	.88618	.89106	.05	1	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412849

Instrument ID: Jack.i Calibration Date: 19-JUN-2014 Time: 02:42

Lab File ID: 0619A01 Init. Calib. Date(s): 15-JUN-2 15-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 13:46 18:43

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.52284	.49834	.1	-5	20	
chloromethane	.6747	.5369	.1	-20	20	F
vinyl chloride	.6475	.56892	.1	-12	20	
bromomethane	.39956	.29896	.1	-25	20	F
chloroethane	.47357	.37568	.1	-21	20	F
trichlorofluoromethane	1.1275	.87017	.1	-23	20	F
ethyl ether	.32842	.25833	.05	-21	20	F
1,1,-dichloroethene	.64299	.51483	.1	-20	20	
carbon disulfide	1.9456	1.4799	.1	-24	20	F
freon-113	.68496	.56828	.1	-17	20	
iodomethane	.74439	.25338	.05	-66	20	F
acrolein	.0771	.05945	.05	-23	20	F
methylene chloride	.73993	.62185	.1	-16	20	
acetone	100	82.887	.1	-17	20	
trans-1,2-dichloroethene	.69529	.59887	.1	-14	20	
methyl acetate	.31565	.23289	.1	-26	20	F
methyl tert butyl ether	1.6428	1.3163	.1	-20	20	
tert butyl alcohol	.04244	.03464	.05	-18	20	F
Diisopropyl Ether	2.1408	1.706	.01	-20	20	F
1,1-dichloroethane	1.1651	1.0435	.2	-10	20	
acrylonitrile	.13608	.12168	.05	-11	20	
Halothane	.47394	.45151	.05	-5	20	
Ethyl-Tert-Butyl-Ether	1.8590	1.6641	.05	-10	20	
vinyl acetate	1.2685	1.1035	.05	-13	20	
cis-1,2-dichloroethene	.69636	.68161	.1	-2	20	
2,2-dichloropropane	.9902	.98003	.05	-1	20	
cyclohexane	1.1603	1.0444	.01	-10	30	
bromochloromethane	.32982	.3305	.05	0	20	
chloroform	1.1660	1.1229	.2	-4	20	
carbontetrachloride	.91805	.85516	.1	-7	20	
tetrahydrofuran	.13684	.1105	.05	-19	20	
ethyl acetate	.41297	.36176	.05	-12	20	
1,1,1-trichloroethane	1.0402	.98429	.1	-5	20	
1,1-dichloropropene	.95997	.92267	.05	-4	20	
2-butanone	.17	.15808	.1	-7	20	
benzene	2.7545	2.6082	.5	-5	20	
Tertiary-Amyl Methyl Ether	1.6809	1.5155	.05	-10	20	
1,2-dichloroethane	.78813	.76238	.1	-3	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412849

Instrument ID: Jack.i Calibration Date: 19-JUN-2014 Time: 02:42

Lab File ID: 0619A01 Init. Calib. Date(s): 15-JUN-2 15-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 13:46 18:43

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
methyl cyclohexane	1.2662	1.1989	.01	-5	30
trichloroethene	.70658	.68	.2	-4	20
dibromomethane	.28035	.26054	.05	-7	20
1,2-dichloropropane	.65961	.6213	.1	-6	20
bromodichloromethane	.89482	.81767	.2	-9	20
1,4-dioxane	.00425	.00333	.05	-21	20
2-chloroethylvinyl ether	.35422	.32115	.05	-9	20
cis-1,3-dichloropropene	1.1045	1.0047	.2	-9	20
toluene	2.1920	2.0910	.4	-5	20
tetrachloroethene	.92172	.98648	.2	7	20
4-methyl-2-pentanone	.16298	.1395	.1	-14	20
trans-1,3-dichloropropene	1.1163	1.0319	.1	-8	20
1,1,2-trichloroethane	.51729	.49116	.1	-5	20
ethyl-methacrylate	.86837	.78552	.01	-10	30
chlorodibromomethane	.75046	.68924	.1	-8	20
1,3-dichloropropane	1.0803	1.0207	.05	-6	20
1,2-dibromoethane	.63652	.59585	.1	-6	20
2-hexanone	.32526	.29039	.1	-11	20
chlorobenzene	2.4012	2.4109	.5	0	20
ethyl benzene	4.3233	4.1829	.1	-3	20
1,1,1,2-tetrachloroethane	.87018	.81183	.05	-7	20
p/m xylene	1.7657	1.6869	.1	-4	20
o xylene	1.6935	1.6319	.3	-4	20
bromoform	.85766	.73827	.1	-14	20
styrene	2.8328	2.6138	.3	-8	20
isopropylbenzene	8.1590	8.0505	.1	-1	20
bromobenzene	1.8384	1.8927	.05	3	20
1,4-dichlorobutane	1.8456	1.7063	.01	-8	30
n-propylbenzene	9.5572	9.4444	.05	-1	20
1,1,2,2,-tetrachloroethane	1.2231	1.1562	.3	-5	20
4-ethyltoluene	8.4066	8.1599	.05	-3	20
2-chlorotoluene	6.4485	6.1304	.05	-5	20
1,2,3-trichloropropane	1.0503	.99305	.05	-5	20
1,3,5-trimethybenzene	6.7596	6.6507	.05	-2	20
trans-1,4-dichloro-2-butene	.35665	.30847	.05	-14	20
4-chlorotoluene	5.4979	5.5418	.05	1	20
tert-butylbenzene	5.9061	5.9948	.05	2	20
1,2,4-trimethylbenzene	6.6792	6.6873	.05	0	20

F

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412849

Instrument ID: Jack.i Calibration Date: 19-JUN-2014 Time: 02:42

Lab File ID: 0619A01 Init. Calib. Date(s): 15-JUN-2 15-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 13:46 18:43

Compound	RRF	RRF	MIN RRF	%D	MAX %D
sec-butylbenzene	8.8236	8.8081	.01	0	20
p-isopropyltoluene	7.5670	7.6454	.05	1	20
1,3-dichlorobenzene	3.7023	3.7557	.6	1	20
1,4-dichlorobenzene	3.6140	3.7132	.5	3	20
p-diethylbenzene	4.1522	4.2317	.05	2	20
n-butylbenzene	6.2995	6.2680	.05	0	20
1,2-dichlorobenzene	3.2130	3.3021	.4	3	20
1,2,4,5-tetramethylbenzene	5.5866	5.5636	.05	0	20
1,2-dibromo-3-chloropropane	.21258	.18155	.05	-15	20
1,3,5-trichlorobenzene	.98291	1.0049	.05	2	20
1,2,4-trichlorobenzene	1.6791	1.7397	.2	4	20
hexachlorobutadiene	.64829	.74777	.05	15	20
naphthalene	3.6290	3.3112	.05	-9	20
1,2,3-trichlorobenzene	1.3745	1.3640	.05	-1	20
dibromofluoromethane	.24618	.24972	.05	1	20
1,2-dichloroethane-d4	.28924	.27352	.05	-5	20
toluene-d8	1.2345	1.2609	.01	2	20
4-bromofluorobenzene	.8576	.90611	.05	6	20

FORM VII MCP-8260-10



ANALYTICAL REPORT

Lab Number:	L1412981
Client:	AMEC Earth & Environmental 271 Mill Road 3rd Floor Chelmsford, MA 01824
ATTN:	Craig Keating
Phone:	(978) 392-5337
Project Name:	BIRD MACHINE
Project Number:	0146790000
Report Date:	06/20/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1412981-01	MB-MW-362	SOUTH WALPOLE, MA	06/13/14 09:05
L1412981-02	MB-MW-363	SOUTH WALPOLE, MA	06/13/14 09:45
L1412981-03	MB-MW-374	SOUTH WALPOLE, MA	06/13/14 10:35
L1412981-04	MW-712S	SOUTH WALPOLE, MA	06/13/14 12:00
L1412981-05	MW-710D	SOUTH WALPOLE, MA	06/12/14 16:10
L1412981-06	TRIP BLANK	SOUTH WALPOLE, MA	06/12/14 00:00

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

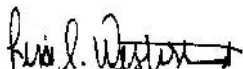
In reference to question H:

The initial calibration, associated with L1412981-01 through -06, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.00381), as well as the average response factor for 1,4-dioxane.

The continuing calibration standard, associated with L1412981-01 through -06, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 06/20/14

ORGANICS

VOLATILES

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-01
 Client ID: MB-MW-362
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 09:16
 Analyst: MM

Date Collected: 06/13/14 09:05
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	22		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	1.9		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	13		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-01

Date Collected: 06/13/14 09:05

Client ID: MB-MW-362

Date Received: 06/13/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	8.1		ug/l	1.0	--	1
1,2-Dichloroethene (total)	8.1		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412981**Project Number:** 0146790000**Report Date:** 06/20/14**SAMPLE RESULTS**

Lab ID: L1412981-01

Date Collected: 06/13/14 09:05

Client ID: MB-MW-362

Date Received: 06/13/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-02
 Client ID: MB-MW-363
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 10:19
 Analyst: MM

Date Collected: 06/13/14 09:45
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-02
 Client ID: MB-MW-363
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/13/14 09:45
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412981**Project Number:** 0146790000**Report Date:** 06/20/14**SAMPLE RESULTS**

Lab ID: L1412981-02

Date Collected: 06/13/14 09:45

Client ID: MB-MW-363

Date Received: 06/13/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-03
 Client ID: MB-MW-374
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 10:52
 Analyst: MM

Date Collected: 06/13/14 10:35
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	42		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	2.3		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	10		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-03
 Client ID: MB-MW-374
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/13/14 10:35
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	6.2		ug/l	1.0	--	1
1,2-Dichloroethene (total)	6.2		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412981**Project Number:** 0146790000**Report Date:** 06/20/14**SAMPLE RESULTS**

Lab ID: L1412981-03

Date Collected: 06/13/14 10:35

Client ID: MB-MW-374

Date Received: 06/13/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-04
 Client ID: MW-712S
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 11:25
 Analyst: MM

Date Collected: 06/13/14 12:00
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-04

Date Collected: 06/13/14 12:00

Client ID: MW-712S

Date Received: 06/13/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412981**Project Number:** 0146790000**Report Date:** 06/20/14**SAMPLE RESULTS**

Lab ID: L1412981-04

Date Collected: 06/13/14 12:00

Client ID: MW-712S

Date Received: 06/13/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-05
 Client ID: MW-710D
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 11:58
 Analyst: MM

Date Collected: 06/12/14 16:10
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-05
 Client ID: MW-710D
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/12/14 16:10
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412981**Project Number:** 0146790000**Report Date:** 06/20/14**SAMPLE RESULTS**

Lab ID: L1412981-05

Date Collected: 06/12/14 16:10

Client ID: MW-710D

Date Received: 06/13/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-06
 Client ID: TRIP BLANK
 Sample Location: SOUTH WALPOLE, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 06/19/14 05:26
 Analyst: MM

Date Collected: 06/12/14 00:00
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

SAMPLE RESULTS

Lab ID: L1412981-06
 Client ID: TRIP BLANK
 Sample Location: SOUTH WALPOLE, MA

Date Collected: 06/12/14 00:00
 Date Received: 06/13/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1

Project Name: BIRD MACHINE**Lab Number:** L1412981**Project Number:** 0146790000**Report Date:** 06/20/14**SAMPLE RESULTS**

Lab ID: L1412981-06

Date Collected: 06/12/14 00:00

Client ID: TRIP BLANK

Date Received: 06/13/14

Sample Location: SOUTH WALPOLE, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/19/14 04:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06 Batch: WG699105-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/19/14 04:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06 Batch: WG699105-3					
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260C
Analytical Date: 06/19/14 04:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06 Batch: WG699105-3					
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06 Batch: WG699105-1 WG699105-2								
Methylene chloride	84		85		70-130	1		20
1,1-Dichloroethane	90		89		70-130	1		20
Chloroform	96		95		70-130	1		20
Carbon tetrachloride	93		95		70-130	2		20
1,2-Dichloropropane	94		93		70-130	1		20
Dibromochloromethane	92		91		70-130	1		20
1,1,2-Trichloroethane	95		94		70-130	1		20
Tetrachloroethene	107		106		70-130	1		20
Chlorobenzene	100		100		70-130	0		20
Trichlorofluoromethane	77		80		70-130	4		20
1,2-Dichloroethane	97		97		70-130	0		20
1,1,1-Trichloroethane	95		97		70-130	2		20
Bromodichloromethane	91		94		70-130	3		20
trans-1,3-Dichloropropene	92		91		70-130	1		20
cis-1,3-Dichloropropene	91		92		70-130	1		20
1,1-Dichloropropene	96		96		70-130	0		20
Bromoform	86		83		70-130	4		20
1,1,2,2-Tetrachloroethane	94		93		70-130	1		20
Benzene	95		95		70-130	0		20
Toluene	95		96		70-130	1		20
Ethylbenzene	97		97		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06 Batch: WG699105-1 WG699105-2								
Chloromethane	80		82		70-130	2		20
Bromomethane	75		71		70-130	5		20
Vinyl chloride	88		88		70-130	0		20
Chloroethane	79		78		70-130	1		20
1,1-Dichloroethene	80		83		70-130	4		20
trans-1,2-Dichloroethene	86		86		70-130	0		20
Trichloroethene	96		97		70-130	1		20
1,2-Dichlorobenzene	103		100		70-130	3		20
1,3-Dichlorobenzene	101		98		70-130	3		20
1,4-Dichlorobenzene	103		100		70-130	3		20
Methyl tert butyl ether	80		77		70-130	4		20
p/m-Xylene	96		95		70-130	1		20
o-Xylene	96		94		70-130	2		20
cis-1,2-Dichloroethene	98		97		70-130	1		20
Dibromomethane	93		92		70-130	1		20
1,2,3-Trichloropropane	94		93		70-130	1		20
Styrene	92		93		70-130	1		20
Dichlorodifluoromethane	95		98		70-130	3		20
Acetone	83		74		70-130	11		20
Carbon disulfide	76		79		70-130	4		20
2-Butanone	93		86		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06 Batch: WG699105-1 WG699105-2								
4-Methyl-2-pentanone	86		85		70-130	1		20
2-Hexanone	89		89		70-130	0		20
Bromochloromethane	100		95		70-130	5		20
Tetrahydrofuran	81		87		70-130	7		20
2,2-Dichloropropane	99		96		70-130	3		20
1,2-Dibromoethane	94		94		70-130	0		20
1,3-Dichloropropane	94		94		70-130	0		20
1,1,1,2-Tetrachloroethane	93		95		70-130	2		20
Bromobenzene	103		101		70-130	2		20
n-Butylbenzene	100		98		70-130	2		20
sec-Butylbenzene	100		99		70-130	1		20
tert-Butylbenzene	102		100		70-130	2		20
o-Chlorotoluene	95		95		70-130	0		20
p-Chlorotoluene	101		99		70-130	2		20
1,2-Dibromo-3-chloropropane	85		88		70-130	3		20
Hexachlorobutadiene	115		117		70-130	2		20
Isopropylbenzene	99		98		70-130	1		20
p-Isopropyltoluene	101		98		70-130	3		20
Naphthalene	91		88		70-130	3		20
n-Propylbenzene	99		98		70-130	1		20
1,2,3-Trichlorobenzene	99		98		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06 Batch: WG699105-1 WG699105-2								
1,2,4-Trichlorobenzene	104		100		70-130	4		20
1,3,5-Trimethylbenzene	98		97		70-130	1		20
1,2,4-Trimethylbenzene	100		98		70-130	2		20
Ethyl ether	79		77		70-130	3		20
Isopropyl Ether	80		78		70-130	3		20
Ethyl-Tert-Butyl-Ether	90		89		70-130	1		20
Tertiary-Amyl Methyl Ether	90		89		70-130	1		20
1,4-Dioxane	78		78		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		97		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	106		104		70-130
Dibromofluoromethane	101		103		70-130

Project Name: BIRD MACHINE

Lab Number: L1412981

Project Number: 0146790000

Report Date: 06/20/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1412981-01A	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-01B	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-01C	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-02A	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-02B	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-03A	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-03B	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-04A	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-04B	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-05A	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-05B	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-05C	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-06A	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-06B	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)
L1412981-06C	Vial HCl preserved	A	N/A	4.1	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a "Total" result is defined as the summation of results for individual isomers or Aroclors. If a "Total" result is requested, the results of its individual components will also be reported. This is applicable to "Total" results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.

Report Format: Data Usability Report



Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

Data Qualifiers

- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: BIRD MACHINE
Project Number: 0146790000

Lab Number: L1412981
Report Date: 06/20/14

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

Serial No: 06201414.23

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 6/13/14

ALPHA Job #: L1412981

Project Information

Project Name: Bird Machine

Project Location: South Walpole, MA

Project #: 014679000

Project Manager: Craig Keating

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: Amec

Address: 271 Mill Rd.
Chelmsford, MA 01821

Phone: 978-692-9090

Email: Denise.King@Amec

Additional Project Information:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/20/14

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program Criteria

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS	SAMPLE INFO										TOTAL # BOTTLES					
		Date	Time				VOC: 8260 624 524.2	SVOC: ABN PAH	METALS: MCP 13 MCP 14 RCP 15	METALS: RCRA5 RCRA8 PPT3	EPH: Ranges & Targets Ranges Only	VPH: Ranges & Targets Ranges Only	PCB PEST	TPH: Quant Only Fingerprint	Filtration	Preservation						
12981-01	MB-MW-362	6-13-14	9:05	GW	DLK	3															3	
02	MB-MW-363	6-13-14	9:45	GW	DLK	3																2 2 VOC vials for sample
03	MB-MW-374	6-13-14	10:33	GW	DLK	2																2 2 VOC vials for sample
04	MW-712S	6-13-14	12:00	GW	DLK	2																2 2 VOC vials for sample
05	MW-710D	6-12-14	16:10	GW	DLK	3																3
06	Trip Blank	6-4-14	/	TB	/	3																3

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type
Preservative B

Relinquished By: David Chapman | 6-13-14 13:05
Received By: [Signature] 6/13/14 13:05

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
FORM NO: 01-01 (rev. 12-Mar-2012)

7A
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1412981

Instrument ID: Jack.i Calibration Date: 19-JUN-2014 Time: 02:42

Lab File ID: 0619A01 Init. Calib. Date(s): 15-JUN-2 15-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 13:46 18:43

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.52284	.49834	.1	-5	20	
chloromethane	.6747	.5369	.1	-20	20	F
vinyl chloride	.6475	.56892	.1	-12	20	
bromomethane	.39956	.29896	.1	-25	20	F
chloroethane	.47357	.37568	.1	-21	20	F
trichlorofluoromethane	1.1275	.87017	.1	-23	20	F
ethyl ether	.32842	.25833	.05	-21	20	F
1,1,-dichloroethene	.64299	.51483	.1	-20	20	
carbon disulfide	1.9456	1.4799	.1	-24	20	F
freon-113	.68496	.56828	.1	-17	20	
iodomethane	.74439	.25338	.05	-66	20	F
acrolein	.0771	.05945	.05	-23	20	F
methylene chloride	.73993	.62185	.1	-16	20	
acetone	100	82.887	.1	-17	20	
trans-1,2-dichloroethene	.69529	.59887	.1	-14	20	
methyl acetate	.31565	.23289	.1	-26	20	F
methyl tert butyl ether	1.6428	1.3163	.1	-20	20	
tert butyl alcohol	.04244	.03464	.05	-18	20	F
Diisopropyl Ether	2.1408	1.706	.01	-20	20	F
1,1-dichloroethane	1.1651	1.0435	.2	-10	20	
acrylonitrile	.13608	.12168	.05	-11	20	
Halothane	.47394	.45151	.05	-5	20	
Ethyl-Tert-Butyl-Ether	1.8590	1.6641	.05	-10	20	
vinyl acetate	1.2685	1.1035	.05	-13	20	
cis-1,2-dichloroethene	.69636	.68161	.1	-2	20	
2,2-dichloropropane	.9902	.98003	.05	-1	20	
cyclohexane	1.1603	1.0444	.01	-10	30	
bromochloromethane	.32982	.3305	.05	0	20	
chloroform	1.1660	1.1229	.2	-4	20	
carbontetrachloride	.91805	.85516	.1	-7	20	
tetrahydrofuran	.13684	.1105	.05	-19	20	
ethyl acetate	.41297	.36176	.05	-12	20	
1,1,1-trichloroethane	1.0402	.98429	.1	-5	20	
1,1-dichloropropene	.95997	.92267	.05	-4	20	
2-butanone	.17	.15808	.1	-7	20	
benzene	2.7545	2.6082	.5	-5	20	
Tertiary-Amyl Methyl Ether	1.6809	1.5155	.05	-10	20	
1,2-dichloroethane	.78813	.76238	.1	-3	20	

FORM VII MCP-8260-10

7A
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Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
methyl cyclohexane	1.2662	1.1989	.01	-5	30
trichloroethene	.70658	.68	.2	-4	20
dibromomethane	.28035	.26054	.05	-7	20
1,2-dichloropropane	.65961	.6213	.1	-6	20
bromodichloromethane	.89482	.81767	.2	-9	20
1,4-dioxane	.00425	.00333	.05	-21	20
2-chloroethylvinyl ether	.35422	.32115	.05	-9	20
cis-1,3-dichloropropene	1.1045	1.0047	.2	-9	20
toluene	2.1920	2.0910	.4	-5	20
tetrachloroethene	.92172	.98648	.2	7	20
4-methyl-2-pentanone	.16298	.1395	.1	-14	20
trans-1,3-dichloropropene	1.1163	1.0319	.1	-8	20
1,1,2-trichloroethane	.51729	.49116	.1	-5	20
ethyl-methacrylate	.86837	.78552	.01	-10	30
chlorodibromomethane	.75046	.68924	.1	-8	20
1,3-dichloropropane	1.0803	1.0207	.05	-6	20
1,2-dibromoethane	.63652	.59585	.1	-6	20
2-hexanone	.32526	.29039	.1	-11	20
chlorobenzene	2.4012	2.4109	.5	0	20
ethyl benzene	4.3233	4.1829	.1	-3	20
1,1,1,2-tetrachloroethane	.87018	.81183	.05	-7	20
p/m xylene	1.7657	1.6869	.1	-4	20
o xylene	1.6935	1.6319	.3	-4	20
bromoform	.85766	.73827	.1	-14	20
styrene	2.8328	2.6138	.3	-8	20
isopropylbenzene	8.1590	8.0505	.1	-1	20
bromobenzene	1.8384	1.8927	.05	3	20
1,4-dichlorobutane	1.8456	1.7063	.01	-8	30
n-propylbenzene	9.5572	9.4444	.05	-1	20
1,1,2,2,-tetrachloroethane	1.2231	1.1562	.3	-5	20
4-ethyltoluene	8.4066	8.1599	.05	-3	20
2-chlorotoluene	6.4485	6.1304	.05	-5	20
1,2,3-trichloropropane	1.0503	.99305	.05	-5	20
1,3,5-trimethybenzene	6.7596	6.6507	.05	-2	20
trans-1,4-dichloro-2-butene	.35665	.30847	.05	-14	20
4-chorotoluene	5.4979	5.5418	.05	1	20
tert-butylbenzene	5.9061	5.9948	.05	2	20
1,2,4-trimethylbenzene	6.6792	6.6873	.05	0	20

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sec-butylbenzene	8.8236	8.8081	.01	0	20
p-isopropyltoluene	7.5670	7.6454	.05	1	20
1,3-dichlorobenzene	3.7023	3.7557	.6	1	20
1,4-dichlorobenzene	3.6140	3.7132	.5	3	20
p-diethylbenzene	4.1522	4.2317	.05	2	20
n-butylbenzene	6.2995	6.2680	.05	0	20
1,2-dichlorobenzene	3.2130	3.3021	.4	3	20
1,2,4,5-tetramethylbenzene	5.5866	5.5636	.05	0	20
1,2-dibromo-3-chloropropane	.21258	.18155	.05	-15	20
1,3,5-trichlorobenzene	.98291	1.0049	.05	2	20
1,2,4-trichlorobenzene	1.6791	1.7397	.2	4	20
hexachlorobutadiene	.64829	.74777	.05	15	20
naphthalene	3.6290	3.3112	.05	-9	20
1,2,3-trichlorobenzene	1.3745	1.3640	.05	-1	20
dibromofluoromethane	.24618	.24972	.05	1	20
1,2-dichloroethane-d4	.28924	.27352	.05	-5	20
toluene-d8	1.2345	1.2609	.01	2	20
4-bromofluorobenzene	.8576	.90611	.05	6	20