Appendix V

QCSR

General

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231657

Date: 11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYss-026M-ER
Date Sampled.....: 11/03/2004
Time Sampled.....: 12:05
Sample Matrix.....: Water

Laboratory Sample ID: 231657-2
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	133763		11/09/04 2140	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	134121		11/11/04 2305	daj
7421	Lead (GFAA)											
	Lead	120			7.9	30	10	ug/L	134494		11/16/04 1021	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134082		11/11/04 0308	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134293		11/12/04 1357	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	140	B		24	150	1	ug/L	134280		11/13/04 1142	tds
	Barium	2.1	B		1.5	10	1	ug/L	134280		11/13/04 1142	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134280		11/13/04 1142	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134280		11/13/04 1142	tds
	Calcium	470			24	100	1	ug/L	134280		11/13/04 1142	tds
	Chromium	17			1.5	10	1	ug/L	134280		11/13/04 1142	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134280		11/13/04 1142	tds
	Copper	8.1	B		1.6	10	1	ug/L	134280		11/13/04 1142	tds
	Iron	310			40	120	1	ug/L	134280		11/13/04 1142	tds
	Magnesium	50	B		12	100	1	ug/L	134280		11/13/04 1142	tds
	Manganese	10			0.71	10	1	ug/L	134280		11/13/04 1142	tds
	Nickel	37			1.9	10	1	ug/L	134280		11/13/04 1142	tds
	Potassium	180	B		110	500	1	ug/L	134280		11/13/04 1142	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYss-D26M-ER
Date Sampled.....: 11/03/2004
Time Sampled.....: 12:05
Sample Matrix.....: Water

Laboratory Sample ID: 231657-2
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134280		11/13/04 1142	tds
	Silver	10	U		3.1	10	1	ug/L	134280		11/13/04 1142	tds
	Sodium	1500	U		500	1500	1	ug/L	134280		11/13/04 1142	tds
	Vanadium	10	U		2.1	10	1	ug/L	134280		11/13/04 1142	tds
	Zinc	25	B		10	30	1	ug/L	134280		11/13/04 1142	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231657

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYss-026M-ER
Date Sampled.....: 11/03/2004
Time Sampled.....: 12:05
Sample Matrix.....: Water

Laboratory Sample ID: 231657-2
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.43	U		0.094	0.43	1.00000	ug/L	134706		11/06/04 0408	san
	RDX	0.28	U		0.089	0.28	1.00000	ug/L	134706		11/06/04 0408	san
	1,3,5-Trinitrobenzene	0.28	U		0.080	0.28	1.00000	ug/L	134706		11/06/04 0408	san
	1,3-Dinitrobenzene	0.28	U		0.076	0.28	1.00000	ug/L	134706		11/06/04 0408	san
	Nitrobenzene	0.22	U		0.061	0.22	1.00000	ug/L	134706		11/06/04 0408	san
	2,4,6-TNT	0.35	U		0.11	0.35	1.00000	ug/L	134706		11/06/04 0408	san
	Tetryl	1.1	U		0.23	1.1	1.00000	ug/L	134706		11/06/04 0408	san
	2,4-Dinitrotoluene	0.50	U		0.17	0.50	1.00000	ug/L	134706		11/06/04 0408	san
	2,6-Dinitrotoluene	0.59	U		0.20	0.59	1.00000	ug/L	134706		11/06/04 0408	san
	2-Amino-4,6-Dinitrotoluene	0.50	U		0.16	0.50	1.00000	ug/L	134706		11/06/04 0408	san
	4-Amino-2,6-Dinitrotoluene	0.46	U		0.16	0.46	1.00000	ug/L	134706		11/06/04 0408	san
	2-Nitrotoluene	0.43	U		0.13	0.43	1.00000	ug/L	134706		11/06/04 0408	san
	4-Nitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	134706		11/06/04 0408	san
	3-Nitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	134706		11/06/04 0408	san

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231793

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8sd-006M-ER
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231793-1
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1429	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	134614		11/15/04 1235	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/13/04 0404	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134456		11/16/04 0245	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134946		11/19/04 1621	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	28	B		24	150	1	ug/L	134566		11/16/04 2033	tds
	Barium	10	U		1.5	10	1	ug/L	134566		11/16/04 2033	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2033	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2033	tds
	Calcium	1200			24	100	1	ug/L	134566		11/16/04 2033	tds
	Chromium	1.6	B		1.5	10	1	ug/L	134566		11/16/04 2033	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134566		11/16/04 2033	tds
	Copper	10	U		1.6	10	1	ug/L	135366		11/23/04 1251	tds
	Iron	45	B		40	120	1	ug/L	134566		11/16/04 2033	tds
	Magnesium	25	B		12	100	1	ug/L	134566		11/16/04 2033	tds
	Manganese	1.0	B		0.71	10	1	ug/L	134566		11/16/04 2033	tds
	Nickel	10	U		1.9	10	1	ug/L	134566		11/16/04 2033	tds
	Potassium	190	B		110	500	1	ug/L	134566		11/16/04 2033	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231793

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8sd-006M-ER
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231793-1
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134566		11/16/04 2033	tds
	Silver	10	U		3.1	10	1	ug/L	134566		11/16/04 2033	tds
	Sodium	1500	U		500	1500	1	ug/L	134566		11/16/04 2033	tds
	Vanadium	10	U		2.1	10	1	ug/L	134566		11/16/04 2033	tds
	Zinc	78			10	30	1	ug/L	134566		11/16/04 2033	tds

* In Description = Dry Wgt.

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Job Number: 231793

LABORATORY TEST RESULTS

Date:11/23/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8sd-006M-ER
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231793-1
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.54	U		0.12	0.54	1.00000	ug/L	135154		11/13/04 1300	san
	RDX	0.35	U		0.11	0.35	1.00000	ug/L	135154		11/13/04 1300	san
	1,3,5-Trinitrobenzene	0.35	U		0.10	0.35	1.00000	ug/L	135154		11/13/04 1300	san
	1,3-Dinitrobenzene	0.35	U		0.096	0.35	1.00000	ug/L	135154		11/13/04 1300	san
	Nitrobenzene	0.28	U		0.077	0.28	1.00000	ug/L	135154		11/13/04 1300	san
	2,4,6-TNT	0.44	U		0.14	0.44	1.00000	ug/L	135154		11/13/04 1300	san
	Tetryl	1.4	U		0.29	1.4	1.00000	ug/L	135154		11/13/04 1300	san
	2,4-Dinitrotoluene	0.63	U		0.21	0.63	1.00000	ug/L	135154		11/13/04 1300	san
	2,6-Dinitrotoluene	0.75	U		0.25	0.75	1.00000	ug/L	135154		11/13/04 1300	san
	2-Amino-4,6-Dinitrotoluene	0.63	U		0.21	0.63	1.00000	ug/L	135154		11/13/04 1300	san
	4-Amino-2,6-Dinitrotoluene	0.58	U		0.20	0.58	1.00000	ug/L	135154		11/13/04 1300	san
	2-Nitrotoluene	0.54	U		0.16	0.54	1.00000	ug/L	135154		11/13/04 1300	san
	4-Nitrotoluene	0.54	U		0.18	0.54	1.00000	ug/L	135154		11/13/04 1300	san
	3-Nitrotoluene	0.54	U		0.18	0.54	1.00000	ug/L	135154		11/13/04 1300	san

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231793

LABORATORY TEST RESULTS

Date: 11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: ATAss-002M-ER
Date Sampled.....: 11/08/2004
Time Sampled.....: 10:35
Sample Matrix.....: Water

Laboratory Sample ID: 231793-2
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1449	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	134614		11/15/04 1257	daj
7421	Lead (GFAA)											
	Lead	37			0.79	3.0	1	ug/L	134350		11/13/04 0415	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134456		11/16/04 0258	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134946		11/19/04 1623	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	86	B		24	150	1	ug/L	134566		11/16/04 2104	tds
	Barium	2.1	B		1.5	10	1	ug/L	134566		11/16/04 2104	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2104	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2104	tds
	Calcium	1600			24	100	1	ug/L	134566		11/16/04 2104	tds
	Chromium	27			1.5	10	1	ug/L	134566		11/16/04 2104	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134566		11/16/04 2104	tds
	Copper	3.4	B		1.6	10	1	ug/L	134566		11/16/04 2104	tds
	Iron	420			40	120	1	ug/L	134566		11/16/04 2104	tds
	Magnesium	93	B		12	100	1	ug/L	134566		11/16/04 2104	tds
	Manganese	11			0.71	10	1	ug/L	134566		11/16/04 2104	tds
	Nickel	38			1.9	10	1	ug/L	134566		11/16/04 2104	tds
	Potassium	250	B		110	500	1	ug/L	134566		11/16/04 2104	tds

* In Description = Dry Wgt.

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Job Number: 231793

LABORATORY TEST RESULTS

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ATAss-D02M-ER
Date Sampled.....: 11/08/2004
Time Sampled.....: 10:35
Sample Matrix.....: Water

Laboratory Sample ID: 231793-2
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134566		11/16/04 2104	tds
	Silver	10	U		3.1	10	1	ug/L	134566		11/16/04 2104	tds
	Sodium	1500	U		500	1500	1	ug/L	134566		11/16/04 2104	tds
	Vanadium	10	U		2.1	10	1	ug/L	134566		11/16/04 2104	tds
	Zinc	110			10	30	1	ug/L	134566		11/16/04 2104	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231793

Date: 11/23/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: AIAss-002M-ER
Date Sampled.....: 11/08/2004
Time Sampled.....: 10:35
Sample Matrix.....: Water

Laboratory Sample ID: 231793-2
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.33	U		0.073	0.33	1.00000	ug/L	135154		11/13/04 1333	san
	RDX	0.21	U		0.068	0.21	1.00000	ug/L	135154		11/13/04 1333	san
	1,3,5-Trinitrobenzene	0.21	U		0.062	0.21	1.00000	ug/L	135154		11/13/04 1333	san
	1,3-Dinitrobenzene	0.21	U		0.059	0.21	1.00000	ug/L	135154		11/13/04 1333	san
	Nitrobenzene	0.17	U		0.047	0.17	1.00000	ug/L	135154		11/13/04 1333	san
	2,4,6-TNT	0.27	U		0.083	0.27	1.00000	ug/L	135154		11/13/04 1333	san
	Tetryl	0.83	U		0.17	0.83	1.00000	ug/L	135154		11/13/04 1333	san
	2,4-Dinitrotoluene	0.38	U		0.13	0.38	1.00000	ug/L	135154		11/13/04 1333	san
	2,6-Dinitrotoluene	0.46	U		0.15	0.46	1.00000	ug/L	135154		11/13/04 1333	san
	2-Amino-4,6-Dinitrotoluene	0.38	U	a	0.13	0.38	1.00000	ug/L	135154		11/13/04 1333	san
	4-Amino-2,6-Dinitrotoluene	0.35	U		0.12	0.35	1.00000	ug/L	135154		11/13/04 1333	san
	2-Nitrotoluene	0.33	U		0.099	0.33	1.00000	ug/L	135154		11/13/04 1333	san
	4-Nitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	135154		11/13/04 1333	san
	3-Nitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	135154		11/13/04 1333	san

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	1100			57	200	1000	mg/L	135258		11/23/04 1019	kd

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1813	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	134614		11/15/04 1405	daj
7421	Lead (GFAA)											
	Lead	17			0.79	3.0	1	ug/L	135606		11/29/04 1232	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134456		11/16/04 0414	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134946		11/19/04 1640	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	39	B		24	150	1	ug/L	134566		11/16/04 2157	tds
	Barium	10	U		1.5	10	1	ug/L	134566		11/16/04 2157	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2157	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2157	tds
	Calcium	470			24	100	1	ug/L	134566		11/16/04 2157	tds
	Chromium	3.2	B		1.5	10	1	ug/L	134566		11/16/04 2157	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134566		11/16/04 2157	tds
	Copper	10	U		1.6	10	1	ug/L	134566		11/16/04 2157	tds
	Iron	68	B		40	120	1	ug/L	134566		11/16/04 2157	tds
	Magnesium	32	B		12	100	1	ug/L	134566		11/16/04 2157	tds
	Manganese	2.6	B		0.71	10	1	ug/L	134566		11/16/04 2157	tds
	Nickel	10	U		1.9	10	1	ug/L	134566		11/16/04 2157	tds
	Potassium	140	B		110	500	1	ug/L	134566		11/16/04 2157	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP Y4 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134566		11/16/04 2157	tds
	Silver	10	U		3.1	10	1	ug/L	134566		11/16/04 2157	tds
	Sodium	1500	U		500	1500	1	ug/L	134566		11/16/04 2157	tds
	Vanadium	10	U		2.1	10	1	ug/L	134566		11/16/04 2157	tds
	Zinc	19	B		10	30	1	ug/L	134566		11/16/04 2157	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,1-Dichloroethene	1.0	U	*	0.12	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134612		11/16/04 1807	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134612		11/16/04 1807	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134612		11/16/04 1807	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134612		11/16/04 1807	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134612		11/16/04 1807	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	C	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134612		11/16/04 1807	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date:12/06/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.8	U		0.34	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	136171		11/28/04 0055	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.48	U		0.078	0.48	1.00000	ug/L	136171		11/28/04 0055	dpk
	Hexachloroethane, Low Level Water	4.8	U		0.59	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.096	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	2-Chlorophenol, Low Level Water	4.8	U		0.12	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	Nitrobenzene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	136171		11/28/04 0055	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	2,4-Dimethylphenol, Low Level Water	9.6	U		1.2	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	Hexachlorobutadiene, Low Level Water	4.8	U		0.62	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	Naphthalene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	2,4-Dichlorophenol, Low Level Water	9.6	U		0.87	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	4-Chloroaniline, Low Level Water	9.6	U		2.7	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.8	U		0.20	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.6	U		1.3	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.62	19	1.00000	ug/L	136171		11/28/04 0055	dpk
	2-Methylnaphthalene, Low Level Water	0.48	U		0.12	0.48	1.00000	ug/L	136171		11/28/04 0055	dpk
	2-Nitroaniline, Low Level Water	4.8	U		0.21	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023N-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.6	U		2.3	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	2,6-Dinitrotoluene, Low Level Water	0.48	U		0.11	0.48	1.00000	ug/L	136171		11/28/04 0055	dpk
	2-Nitrophenol, Low Level Water	9.6	U		0.79	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	3-Nitroaniline, Low Level Water	9.6	U		2.0	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	136171		11/28/04 0055	dpk
	Acenaphthylene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	2,4-Dinitrotoluene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	Acenaphthene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	136171		11/28/04 0055	dpk
	Fluorene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	4-Nitroaniline, Low Level Water	9.6	U		2.2	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.8	U		0.18	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	Hexachlorobenzene, Low Level Water	0.48	U		0.093	0.48	1.00000	ug/L	136171		11/28/04 0055	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.8	U		0.72	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	Pentachlorophenol, Low Level Water	9.6	U		1.6	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	136171		11/28/04 0055	dpk
	Phenanthrene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	Anthracene, Low Level Water	0.96	U		0.14	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	Carbazole, Low Level Water	4.8	U		0.28	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	Di-n-butyl phthalate, Low Level Water	4.8	U		0.35	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	Fluoranthene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	Pyrene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	136171		11/28/04 0055	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.047	0.19	1.00000	ug/L	136171		11/28/04 0055	dpk
	Chrysene, Low Level Water	0.48	U		0.043	0.48	1.00000	ug/L	136171		11/28/04 0055	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.8	U		0.69	4.8	1.00000	ug/L	136171		11/28/04 0055	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	136171		11/28/04 0055	dpk
	Di-n-octyl phthalate, Low Level Water	9.6	U		2.4	9.6	1.00000	ug/L	136171		11/28/04 0055	dpk
	Benzo(b)fluoranthene, Low Level Water	0.18	J	H	0.064	0.38	1.00000	ug/L	136171		11/28/04 0055	dpk
	Benzo(k)fluoranthene, Low Level Water	0.26	J		0.069	0.38	1.00000	ug/L	136171		11/28/04 0055	dpk
	Benzo(a)pyrene, Low Level Water	0.27	J		0.081	0.38	1.00000	ug/L	136171		11/28/04 0055	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.22	J		0.083	0.38	1.00000	ug/L	136171		11/28/04 0055	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.28	J		0.12	0.38	1.00000	ug/L	136171		11/28/04 0055	dpk
	Benzo(ghi)perylene, Low Level Water	0.31	J		0.18	0.96	1.00000	ug/L	136171		11/28/04 0055	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date:12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	136059		11/16/04 0503	kdl
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	136059		11/16/04 0503	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	136059		11/16/04 0503	kdl
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	136059		11/16/04 0503	kdl
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	136059		11/16/04 0503	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	136059		11/16/04 0503	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	136059		11/16/04 0503	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	136059		11/16/04 0503	kdl
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	136059		11/16/04 0503	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	136059		11/16/04 0503	kdl
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	136059		11/16/04 0503	kdl
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	136059		11/16/04 0503	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	136059		11/16/04 0503	kdl

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7sw-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	135575		11/19/04 2111	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	135575		11/19/04 2111	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	135575		11/19/04 2111	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	135575		11/19/04 2111	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	135575		11/19/04 2111	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	135575		11/19/04 2111	bjt
	Aroclor 1260	0.58	U		0.17	0.58	1.00000	ug/L	135575		11/19/04 2111	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-ER
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 231832-1
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.49	U		0.11	0.49	1.00000	ug/L	135917		11/13/04 1721	san
	RDX	0.31	U		0.10	0.31	1.00000	ug/L	135917		11/13/04 1721	san
	1,3,5-Trinitrobenzene	0.31	U		0.091	0.31	1.00000	ug/L	135917		11/13/04 1721	san
	1,3-Dinitrobenzene	0.31	U		0.086	0.31	1.00000	ug/L	135917		11/13/04 1721	san
	Nitrobenzene	0.25	U		0.069	0.25	1.00000	ug/L	135917		11/13/04 1721	san
	2,4,6-TNT	0.39	U		0.12	0.39	1.00000	ug/L	135917		11/13/04 1721	san
	Tetryl	1.2	U		0.26	1.2	1.00000	ug/L	135917		11/13/04 1721	san
	2,4-Dinitrotoluene	0.56	U		0.19	0.56	1.00000	ug/L	135917		11/13/04 1721	san
	2,6-Dinitrotoluene	0.67	U		0.22	0.67	1.00000	ug/L	135917		11/13/04 1721	san
	2-Amino-4,6-Dinitrotoluene	0.56	U		0.19	0.56	1.00000	ug/L	135917		11/13/04 1721	san
	4-Amino-2,6-Dinitrotoluene	0.52	U		0.18	0.52	1.00000	ug/L	135917		11/13/04 1721	san
	2-Nitrotoluene	0.49	U		0.15	0.49	1.00000	ug/L	135917		11/13/04 1721	san
	4-Nitrotoluene	0.49	U		0.16	0.49	1.00000	ug/L	135917		11/13/04 1721	san
	3-Nitrotoluene	0.49	U		0.16	0.49	1.00000	ug/L	135917		11/13/04 1721	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.6	U		0.24	1.6	1.00000	ug/L	135908		11/20/04 1616	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7ss-023M-ER

Trace Level Organic Compounds

Lot-Sample #...:	G4K100349-015	**Work Order #...:**	GWNHK1AC	**Matrix.....:**	WATER
Date Sampled...:	11/09/04 14:20	**Date Received..:**	11/10/04		
Prep Date.....:	11/16/04	**Analysis Date..:**	11/17/04		
Prep Batch #...:	4321498				
Dilution Factor:	1	**Initial Wgt/Vol:**	10 mL	**Final Wgt/Vol..:**	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LL7ss-023M-ER

General Chemistry

Lot-Sample #...: G4K100349-015 Work Order #...: GWNHK Matrix.....: WATER
Date Sampled...: 11/09/04 14:20 Date Received..: 11/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/20-11/23/04	4325114
		Dilution Factor: 1		Initial Wgt/Vol: 100 mL	Final Wgt/Vol..: 40 mL	
		MDL.....: 0.12				

SEVERN TRENT STL

STL Chicago
2417 Bond Street
University Park, IL 60466

Tel: 708 534 5200 Fax: 708 534 5211
www.stl-inc.com

April 22, 2005

Mr. Eric Ellis
MKM Engineers, Inc.
Ravenna Army Ammunition Plant
Bldg. 1038
8451 State Route 5
Ravenna, OH 44266

RE: USACE RVAAP 14 AOCS
Job# 232119

Dear Mr. Ellis:

Per your request, this letter is to document the sample ID correction. The sample ID has been corrected as follows; from LL5sw-005M-ER to LL5ss-005M-ER. The EDD has been corrected and emailed to MKM. STL's data base has been corrected; however a revised report on CD was not required, per your instructions. If you have any questions, please contact me at 708-534-5200.

Sincerely,

Severn Trent Laboratories
Nancy S. McDonald

Nancy. S. McDonald
Project Manager

pmb

Enclosure

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232119

Date:12/09/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.20	U		0.057	0.20	1	mg/L	135585		11/29/04 1148	kd

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 232119

LABORATORY TEST RESULTS

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	135231		11/23/04 0002	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	135115		11/21/04 1510	daj
7421	Lead (GFAA)											
	Lead	83			4.0	15	5	ug/L	135155		11/22/04 1321	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	135201		11/23/04 0129	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	135835		11/30/04 1525	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	135885		12/01/04 1909	tds
	Barium	10	U		1.3	10	1	ug/L	135885		12/01/04 1909	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	135885		12/01/04 1909	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	135885		12/01/04 1909	tds
	Calcium	500			9.5	100	1	ug/L	135885		12/01/04 1909	tds
	Chromium	11			1.1	10	1	ug/L	135885		12/01/04 1909	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	135885		12/01/04 1909	tds
	Copper	10	U		2.2	10	1	ug/L	135885		12/01/04 1909	tds
	Iron	80	B		38	120	1	ug/L	135885		12/01/04 1909	tds
	Magnesium	27	B		8.1	100	1	ug/L	135885		12/01/04 1909	tds
	Manganese	1.8	B		0.41	10	1	ug/L	135885		12/01/04 1909	tds
	Nickel	4.8	B		1.0	10	1	ug/L	135885		12/01/04 1909	tds
	Potassium	150	B		66	500	1	ug/L	135885		12/01/04 1909	tds

* In Description = Dry Wgt.

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Job Number: 232119

LABORATORY TEST RESULTS

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP I4 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	135885		12/01/04 1909	tds
	Silver	10	U		0.72	10	1	ug/L	135885		12/01/04 1909	tds
	Sodium	1500	U		490	1500	1	ug/L	135885		12/01/04 1909	tds
	Vanadium	10	U		1.0	10	1	ug/L	135885		12/01/04 1909	tds
	Zinc	13	B		1.6	30	1	ug/L	135885		12/01/04 1909	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232119

Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.047	0.15	1.00000	ug/L	136520		11/29/04 1823	kdl
	beta-BHC	0.099	U		0.028	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	delta-BHC	0.099	U		0.025	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	gamma-BHC (Lindane)	0.15	U		0.042	0.15	1.00000	ug/L	136520		11/29/04 1823	kdl
	Heptachlor	0.15	U		0.041	0.15	1.00000	ug/L	136520		11/29/04 1823	kdl
	Aldrin	0.099	U		0.028	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	Heptachlor epoxide	0.15	U		0.036	0.15	1.00000	ug/L	136520		11/29/04 1823	kdl
	Endosulfan I	0.099	U		0.021	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	Dieldrin	0.099	U		0.018	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	4,4'-DDE	0.099	U		0.023	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	Endrin	0.099	U		0.017	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	Endosulfan II	0.15	U		0.042	0.15	1.00000	ug/L	136520		11/29/04 1823	kdl
	4,4'-DDD	0.11	U		0.036	0.11	1.00000	ug/L	136520		11/29/04 1823	kdl
	Endosulfan sulfate	0.15	U		0.044	0.15	1.00000	ug/L	136520		11/29/04 1823	kdl
	4,4'-DDT	0.15	U		0.049	0.15	1.00000	ug/L	136520		11/29/04 1823	kdl
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	136520		11/29/04 1823	kdl
	alpha-Chlordane	0.050	U		0.016	0.050	1.00000	ug/L	136520		11/29/04 1823	kdl
	gamma-Chlordane	0.099	U		0.017	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	Endrin aldehyde	0.15	U		0.035	0.15	1.00000	ug/L	136520		11/29/04 1823	kdl
	Endrin ketone	0.099	U		0.029	0.099	1.00000	ug/L	136520		11/29/04 1823	kdl
	Toxaphene	0.50	U		0.14	0.50	1.00000	ug/L	136520		11/29/04 1823	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119 Date:12/08/2004

CUSTOMER: MKN Engineers, Inc. PROJECT: USACE RVAAP 14 ACDS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.59	U		0.18	0.59	1.00000	ug/L	136116		11/24/04 1741	bjt
	Aroclor 1221	1.3	U		0.42	1.3	1.00000	ug/L	136116		11/24/04 1741	bjt
	Aroclor 1232	1.3	U		0.35	1.3	1.00000	ug/L	136116		11/24/04 1741	bjt
	Aroclor 1242	1.3	U		0.43	1.3	1.00000	ug/L	136116		11/24/04 1741	bjt
	Aroclor 1248	1.5	U		0.48	1.5	1.00000	ug/L	136116		11/24/04 1741	bjt
	Aroclor 1254	1.3	U		0.35	1.3	1.00000	ug/L	136116		11/24/04 1741	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	136116		11/24/04 1741	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119 Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
82608	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	135563		11/24/04 0508	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	135563		11/24/04 0508	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135563		11/24/04 0508	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135563		11/24/04 0508	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135563		11/24/04 0508	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135563		11/24/04 0508	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119

Date:12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.8	U		0.33	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.31	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	136454		12/01/04 2147	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.48	U		0.077	0.48	1.00000	ug/L	136454		12/01/04 2147	dpk
	Hexachloroethane, Low Level Water	4.8	U		0.58	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.095	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	2-Chlorophenol, Low Level Water	4.8	U		0.11	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	Nitrobenzene, Low Level Water	0.95	U		0.15	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	136454		12/01/04 2147	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	2,4-Dimethylphenol, Low Level Water	9.5	U		1.2	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	Hexachlorobutadiene, Low Level Water	4.8	U		0.61	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	Naphthalene, Low Level Water	0.95	U		0.15	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	2,4-Dichlorophenol, Low Level Water	9.5	U		0.87	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	4-Chloroaniline, Low Level Water	9.5	U		2.7	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.8	U		0.20	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.5	U		1.3	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.62	19	1.00000	ug/L	136454		12/01/04 2147	dpk
	2-Methylnaphthalene, Low Level Water	0.48	U		0.12	0.48	1.00000	ug/L	136454		12/01/04 2147	dpk
	2-Nitroaniline, Low Level Water	4.8	U		0.21	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119 Date:12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.5	U		2.3	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	2,6-Dinitrotoluene, Low Level Water	0.48	U		0.10	0.48	1.00000	ug/L	136454		12/01/04 2147	dpk
	2-Nitrophenol, Low Level Water	9.5	U		0.78	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	3-Nitroaniline, Low Level Water	9.5	U		2.0	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.1	19	1.00000	ug/L	136454		12/01/04 2147	dpk
	Acenaphthylene, Low Level Water	0.95	U		0.11	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	2,4-Dinitrotoluene, Low Level Water	0.95	U		0.12	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	Acenaphthene, Low Level Water	0.95	U		0.11	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	4-Nitrophenol, Low Level Water	19	U		3.5	19	1.00000	ug/L	136454		12/01/04 2147	dpk
	Fluorene, Low Level Water	0.95	U		0.12	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	4-Nitroaniline, Low Level Water	9.5	U		2.2	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.8	U		0.18	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	Hexachlorobenzene, Low Level Water	0.48	U		0.092	0.48	1.00000	ug/L	136454		12/01/04 2147	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.8	U		0.71	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	Pentachlorophenol, Low Level Water	9.5	U		1.6	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.95	U		0.12	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	136454		12/01/04 2147	dpk
	Phenanthrene, Low Level Water	0.95	U		0.13	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	Anthracene, Low Level Water	0.95	U		0.14	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	Carbazole, Low Level Water	4.8	U		0.28	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	Di-n-butyl phthalate, Low Level Water	4.8	U		0.34	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	Fluoranthene, Low Level Water	0.95	U		0.13	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	Pyrene, Low Level Water	0.95	U		0.11	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	136454		12/01/04 2147	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.047	0.19	1.00000	ug/L	136454		12/01/04 2147	dpk
	Chrysene, Low Level Water	0.48	U		0.043	0.48	1.00000	ug/L	136454		12/01/04 2147	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119

Date:12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.8	U		0.69	4.8	1.00000	ug/L	136454		12/01/04 2147	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	136454		12/01/04 2147	dpk
	Di-n-octyl phthalate, Low Level Water	9.5	U	*	2.4	9.5	1.00000	ug/L	136454		12/01/04 2147	dpk
	Benzo(b)fluoranthene, Low Level Water	0.38	U		0.064	0.38	1.00000	ug/L	136454		12/01/04 2147	dpk
	Benzo(k)fluoranthene, Low Level Water	0.38	U		0.069	0.38	1.00000	ug/L	136454		12/01/04 2147	dpk
	Benzo(a)pyrene, Low Level Water	0.38	U		0.080	0.38	1.00000	ug/L	136454		12/01/04 2147	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.38	U		0.082	0.38	1.00000	ug/L	136454		12/01/04 2147	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.38	U		0.12	0.38	1.00000	ug/L	136454		12/01/04 2147	dpk
	Benzo(ghi)perylene, Low Level Water	0.95	U		0.18	0.95	1.00000	ug/L	136454		12/01/04 2147	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119

Date:12/07/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-005M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232119-4
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.36	U		0.079	0.36	1.00000	ug/L	136329		11/23/04 0444	san
	RDX	0.23	U		0.075	0.23	1.00000	ug/L	136329		11/23/04 0444	san
	1,3,5-Trinitrobenzene	0.23	U		0.068	0.23	1.00000	ug/L	136329		11/23/04 0444	san
	1,3-Dinitrobenzene	0.23	U		0.064	0.23	1.00000	ug/L	136329		11/23/04 0444	san
	Nitrobenzene	0.19	U		0.051	0.19	1.00000	ug/L	136329		11/23/04 0444	san
	2,4,6-TNT	0.29	U		0.091	0.29	1.00000	ug/L	136329		11/23/04 0444	san
	Tetryl	0.91	U		0.19	0.91	1.00000	ug/L	136329		11/23/04 0444	san
	2,4-Dinitrotoluene	0.42	U		0.14	0.42	1.00000	ug/L	136329		11/23/04 0444	san
	2,6-Dinitrotoluene	0.50	U		0.17	0.50	1.00000	ug/L	136329		11/23/04 0444	san
	2-Amino-4,6-Dinitrotoluene	0.42	U		0.14	0.42	1.00000	ug/L	136329		11/23/04 0444	san
	4-Amino-2,6-Dinitrotoluene	0.39	U		0.13	0.39	1.00000	ug/L	136329		11/23/04 0444	san
	2-Nitrotoluene	0.36	U		0.11	0.36	1.00000	ug/L	136329		11/23/04 0444	san
	4-Nitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	136329		11/23/04 0444	san
	3-Nitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	136329		11/23/04 0444	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.2	U		0.18	1.2	1.00000	ug/L	136342		11/20/04 1354	san

* in Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL5ss-005M-ER

Trace Level Organic Compounds

Lot-Sample #...:	G4K190351-002	Work Order #...:	GXF181AC	Matrix.....:	WATER
Date Sampled...:	11/18/04 09:20	Date Received..:	11/19/04		
Prep Date.....:	11/30/04	Analysis Date..:	11/30/04		
Prep Batch #...:	4335319				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LL5ss-005M-ER

General Chemistry

Lot-Sample #...: G4K190351-002 Work Order #...: GXF18 Matrix.....: WATER
Date Sampled...: 11/18/04 09:20 Date Received..: 11/19/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/20-11/23/04	4325114

Dilution Factor: 1 Initial Wgt/Vol: 100 mL Final Wgt/Vol..: 40 mL
MDL.....: 0.12

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LABORATORY TEST RESULTS

Job Number: 232119

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8ss-019-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232119-5
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
82608	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	135563		11/24/04 0531	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	135563		11/24/04 0531	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135563		11/24/04 0531	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135563		11/24/04 0531	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135563		11/24/04 0531	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LL8ss-019-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232119-5
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135563		11/24/04 0531	jdn

* In Description = Dry Wgt.

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Job Number: 232168

LABORATORY TEST RESULTS

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	135231		11/22/04 1746	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	135115		11/21/04 1546	daj
7421	Lead (GFAA)											
	Lead	19			0.79	3.0	1	ug/L	135155		11/22/04 1412	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	135201		11/23/04 0219	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	135633		11/29/04 1438	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	27	B		24	150	1	ug/L	135885		12/01/04 2016	tds
	Barium	1.8	B		1.3	10	1	ug/L	135885		12/01/04 2016	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	135885		12/01/04 2016	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	135885		12/01/04 2016	tds
	Calcium	700			9.5	100	1	ug/L	135885		12/01/04 2016	tds
	Chromium	4.4	B		1.1	10	1	ug/L	135885		12/01/04 2016	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	135885		12/01/04 2016	tds
	Copper	4.0	B		2.2	10	1	ug/L	135885		12/01/04 2016	tds
	Iron	76	B		38	120	1	ug/L	135885		12/01/04 2016	tds
	Magnesium	41	B		8.1	100	1	ug/L	135885		12/01/04 2016	tds
	Manganese	1.8	B		0.41	10	1	ug/L	135885		12/01/04 2016	tds
	Nickel	1.8	B		1.0	10	1	ug/L	135885		12/01/04 2016	tds
	Potassium	150	B		66	500	1	ug/L	135885		12/01/04 2016	tds

* In Description = Dry Wgt.

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Job Number: 232168

LABORATORY TEST RESULTS

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	135885		12/01/04 2016	tds
	Silver	10	U		0.72	10	1	ug/L	135885		12/01/04 2016	tds
	Sodium	1500	U		490	1500	1	ug/L	135885		12/01/04 2016	tds
	Vanadium	10	U		1.0	10	1	ug/L	135885		12/01/04 2016	tds
	Zinc	18	B		1.6	30	1	ug/L	135885		12/01/04 2016	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232168 Date:12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	136532		11/28/04 2254	kdl
	beta-BHC	0.096	U		0.027	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	delta-BHC	0.096	U		0.024	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	136532		11/28/04 2254	kdl
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	136532		11/28/04 2254	kdl
	Aldrin	0.096	U		0.027	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	Heptachlor epoxide	0.14	U		0.035	0.14	1.00000	ug/L	136532		11/28/04 2254	kdl
	Endosulfan I	0.096	U		0.020	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	Dieldrin	0.096	U		0.017	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	4,4'-DDE	0.096	U		0.022	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	Endrin	0.096	U		0.016	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	136532		11/28/04 2254	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	136532		11/28/04 2254	kdl
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	136532		11/28/04 2254	kdl
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	136532		11/28/04 2254	kdl
	Methoxychlor	0.58	U		0.16	0.58	1.00000	ug/L	136532		11/28/04 2254	kdl
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	136532		11/28/04 2254	kdl
	gamma-Chlordane	0.096	U		0.016	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	Endrin aldehyde	0.14	U		0.034	0.14	1.00000	ug/L	136532		11/28/04 2254	kdl
	Endrin ketone	0.096	U		0.028	0.096	1.00000	ug/L	136532		11/28/04 2254	kdl
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	136532		11/28/04 2254	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232168 Date:12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	136116		11/24/04 2002	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	136116		11/24/04 2002	bjt
	Aroclor 1232	1.2	U		0.34	1.2	1.00000	ug/L	136116		11/24/04 2002	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	136116		11/24/04 2002	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	136116		11/24/04 2002	bjt
	Aroclor 1254	1.2	U		0.34	1.2	1.00000	ug/L	136116		11/24/04 2002	bjt
	Aroclor 1260	0.58	U		0.16	0.58	1.00000	ug/L	136116		11/24/04 2002	bjt

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232168

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
82608	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Chloroethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	135800		12/01/04 0327	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	135800		12/01/04 0327	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135800		12/01/04 0327	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135800		12/01/04 0327	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135800		12/01/04 0327	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232168 Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135800		12/01/04 0327	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232168 Date:12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.42	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	136454		12/01/04 2258	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	136454		12/01/04 2258	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.59	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.097	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Nitrobenzene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	136454		12/01/04 2258	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	2,4-Dimethylphenol, Low Level Water	9.7	U		1.3	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.62	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Naphthalene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	2,4-Dichlorophenol, Low Level Water	9.7	U		0.88	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	4-Chloroaniline, Low Level Water	9.7	U		2.7	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.20	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.7	U		1.4	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.63	19	1.00000	ug/L	136454		12/01/04 2258	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	136454		12/01/04 2258	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232168 Date:12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.7	U		2.3	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	136454		12/01/04 2258	dpk
	2-Nitrophenol, Low Level Water	9.7	U		0.80	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	3-Nitroaniline, Low Level Water	9.7	U		2.0	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	136454		12/01/04 2258	dpk
	Acenaphthylene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	2,4-Dinitrotoluene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	Acenaphthene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.13	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	136454		12/01/04 2258	dpk
	Fluorene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	4-Nitroaniline, Low Level Water	9.7	U		2.2	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.18	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.094	0.49	1.00000	ug/L	136454		12/01/04 2258	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.15	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.73	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Pentachlorophenol, Low Level Water	9.7	U		1.7	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	136454		12/01/04 2258	dpk
	Phenanthrene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	Anthracene, Low Level Water	0.97	U		0.15	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Fluoranthene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	Pyrene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.38	1.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.048	0.19	1.00000	ug/L	136454		12/01/04 2258	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	136454		12/01/04 2258	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232168 Date:12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.70	4.9	1.00000	ug/L	136454		12/01/04 2258	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	12	J		3.8	15	1.00000	ug/L	136454		12/01/04 2258	dpk
	Di-n-octyl phthalate, Low Level Water	9.7	U	*	2.4	9.7	1.00000	ug/L	136454		12/01/04 2258	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.065	0.39	1.00000	ug/L	136454		12/01/04 2258	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.070	0.39	1.00000	ug/L	136454		12/01/04 2258	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	136454		12/01/04 2258	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.083	0.39	1.00000	ug/L	136454		12/01/04 2258	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	136454		12/01/04 2258	dpk
	Benzo(ghi)perylene, Low Level Water	0.97	U		0.18	0.97	1.00000	ug/L	136454		12/01/04 2258	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232168

Date:12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.62	U		0.14	0.62	1.00000	ug/L	136010		11/25/04 0256	san
	RDX	0.40	U		0.13	0.40	1.00000	ug/L	136010		11/25/04 0256	san
	1,3,5-Trinitrobenzene	0.40	U		0.12	0.40	1.00000	ug/L	136010		11/25/04 0256	san
	1,3-Dinitrobenzene	0.40	U		0.11	0.40	1.00000	ug/L	136010		11/25/04 0256	san
	Nitrobenzene	0.32	U		0.088	0.32	1.00000	ug/L	136010		11/25/04 0256	san
	2,4,6-TNT	0.50	U		0.16	0.50	1.00000	ug/L	136010		11/25/04 0256	san
	Tetryl	1.6	U		0.33	1.6	1.00000	ug/L	136010		11/25/04 0256	san
	2,4-Dinitrotoluene	0.72	U		0.24	0.72	1.00000	ug/L	136010		11/25/04 0256	san
	2,6-Dinitrotoluene	0.86	U		0.29	0.86	1.00000	ug/L	136010		11/25/04 0256	san
	2-Amino-4,6-Dinitrotoluene	0.72	U		0.24	0.72	1.00000	ug/L	136010		11/25/04 0256	san
	4-Amino-2,6-Dinitrotoluene	0.66	U		0.23	0.66	1.00000	ug/L	136010		11/25/04 0256	san
	2-Nitrotoluene	0.62	U		0.19	0.62	1.00000	ug/L	136010		11/25/04 0256	san
	4-Nitrotoluene	0.62	U		0.20	0.62	1.00000	ug/L	136010		11/25/04 0256	san
	3-Nitrotoluene	0.62	U		0.20	0.62	1.00000	ug/L	136010		11/25/04 0256	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	2.0	U		0.30	2.0	1.00000	ug/L	136040		12/02/04 0925	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: L10ss-027M-ER

Trace Level Organic Compounds

Lot-Sample #...:	G4K200229-001	**Work Order #...:**	GXJHN1AC	**Matrix.....:**	WATER
Date Sampled...:	11/18/04 16:45	**Date Received..:**	11/20/04		
Prep Date.....:	11/30/04	**Analysis Date..:**	11/30/04		
Prep Batch #...:	4335319				
Dilution Factor:	1	**Initial Wgt/Vol:**	10 mL	**Final Wgt/Vol..:**	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: L10ss-027M-ER

General Chemistry

Lot-Sample #...: G4K200229-001 Work Order #...: GXJHN Matrix.....: WATER
Date Sampled...: 11/18/04 Date Received..: 11/20/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/02-12/04/04	4336502
	MDL.....: 0.12					

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LABORATORY TEST RESULTS

Job Number: 232168

Date:12/14/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10ss-027M-ER
Date Sampled.....: 11/18/2004
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 232168-3
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric) Cyanide, Total	0.010	U		0.0044	0.010	1	mg/L	135320		11/23/04 1506	mtb

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date:12/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7196A	Hexavalent Chromium Hexavalent Chromium	0.0038	B		0.0016	0.010	1	mg/L	136079		12/03/04 1200	pmf

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date: 12/22/2004

CUSTOMER: WKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	136351		12/06/04 2156	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	136355		12/06/04 2313	daj
7421	Lead (GFAA)											
	Lead	8.7			0.79	3.0	1	ug/L	136730		12/09/04 1213	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	136346		12/07/04 0628	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	137125		12/14/04 1553	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	137178		12/15/04 2254	tds
	Barium	10	U		1.3	10	1	ug/L	137178		12/15/04 2254	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	137178		12/15/04 2254	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	137178		12/15/04 2254	tds
	Calcium	360			9.5	100	1	ug/L	137178		12/15/04 2254	tds
	Chromium	10	U		1.1	10	1	ug/L	137178		12/15/04 2254	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	137178		12/15/04 2254	tds
	Copper	2.2	B		2.2	10	1	ug/L	137178		12/15/04 2254	tds
	Iron	120	U		38	120	1	ug/L	137178		12/15/04 2254	tds
	Magnesium	100	U		8.1	100	1	ug/L	137178		12/15/04 2254	tds
	Manganese	10	U		0.41	10	1	ug/L	137178		12/15/04 2254	tds
	Nickel	10	U		1.0	10	1	ug/L	137178		12/15/04 2254	tds
	Potassium	150	B		66	500	1	ug/L	137178		12/15/04 2254	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc; PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	137178		12/15/04 2254	tds
	Silver	10	U		0.72	10	1	ug/L	137178		12/15/04 2254	tds
	Sodium	1500	U		490	1500	1	ug/L	137178		12/15/04 2254	tds
	Vanadium	10	U		1.0	10	1	ug/L	137178		12/15/04 2254	tds
	Zinc	30	U		1.6	30	1	ug/L	137178		12/15/04 2254	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date:12/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	137343		12/12/04 1343	kdl
	beta-BHC	0.096	U		0.027	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	delta-BHC	0.096	U		0.024	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	137343		12/12/04 1343	kdl
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	137343		12/12/04 1343	kdl
	Aldrin	0.096	U		0.027	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	Heptachlor epoxide	0.14	U		0.035	0.14	1.00000	ug/L	137343		12/12/04 1343	kdl
	Endosulfan I	0.096	U		0.020	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	Dieldrin	0.096	U		0.017	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	4,4'-DDE	0.096	U		0.022	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	Endrin	0.096	U		0.016	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	137343		12/12/04 1343	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	137343		12/12/04 1343	kdl
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	137343		12/12/04 1343	kdl
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	137343		12/12/04 1343	kdl
	Methoxychlor	0.58	U		0.16	0.58	1.00000	ug/L	137343		12/12/04 1343	kdl
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	137343		12/12/04 1343	kdl
	gamma-Chlordane	0.096	U		0.016	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	Endrin aldehyde	0.14	U		0.034	0.14	1.00000	ug/L	137343		12/12/04 1343	kdl
	Endrin ketone	0.096	U		0.028	0.096	1.00000	ug/L	137343		12/12/04 1343	kdl
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	137343		12/12/04 1343	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date:12/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	137249		12/08/04 0414	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	137249		12/08/04 0414	bjt
	Aroclor 1232	1.2	U		0.34	1.2	1.00000	ug/L	137249		12/08/04 0414	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	137249		12/08/04 0414	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	137249		12/08/04 0414	bjt
	Aroclor 1254	1.2	U		0.34	1.2	1.00000	ug/L	137249		12/08/04 0414	bjt
	Aroclor 1260	0.58	U		0.16	0.58	1.00000	ug/L	137249		12/08/04 0414	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date:12/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	137206		12/15/04 1603	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137206		12/15/04 1603	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137206		12/15/04 1603	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137206		12/15/04 1603	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137206		12/15/04 1603	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date:12/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137206		12/15/04 1603	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date:12/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 ACCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.8	U		0.34	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	137222		12/09/04 1607	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.48	U		0.078	0.48	1.00000	ug/L	137222		12/09/04 1607	dpk
	Hexachloroethane, Low Level Water	4.8	U		0.59	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.096	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	2-Chlorophenol, Low Level Water	4.8	U		0.12	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	Nitrobenzene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	137222		12/09/04 1607	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	2,4-Dimethylphenol, Low Level Water	9.6	U		1.2	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	Hexachlorobutadiene, Low Level Water	4.8	U		0.62	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	Naphthalene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	2,4-Dichlorophenol, Low Level Water	9.6	U		0.87	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	4-Chloroaniline, Low Level Water	9.6	U		2.7	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.8	U		0.20	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.6	U		1.3	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.62	19	1.00000	ug/L	137222		12/09/04 1607	dpk
	2-Methylnaphthalene, Low Level Water	0.48	U		0.12	0.48	1.00000	ug/L	137222		12/09/04 1607	dpk
	2-Nitroaniline, Low Level Water	4.8	U		0.21	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date: 12/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.6	U		2.3	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	2,6-Dinitrotoluene, Low Level Water	0.48	U		0.11	0.48	1.00000	ug/L	137222		12/09/04 1607	dpk
	2-Nitrophenol, Low Level Water	9.6	U		0.79	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	3-Nitroaniline, Low Level Water	9.6	U		2.0	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	137222		12/09/04 1607	dpk
	Acenaphthylene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	2,4-Dinitrotoluene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	Acenaphthene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	137222		12/09/04 1607	dpk
	Fluorene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	4-Nitroaniline, Low Level Water	9.6	U		2.2	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.8	U		0.18	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	Hexachlorobenzene, Low Level Water	0.48	U		0.093	0.48	1.00000	ug/L	137222		12/09/04 1607	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.8	U		0.72	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	Pentachlorophenol, Low Level Water	9.6	U		1.6	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	137222		12/09/04 1607	dpk
	Phenanthrene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	Anthracene, Low Level Water	0.96	U		0.14	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	Carbazole, Low Level Water	4.8	U		0.28	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	Di-n-butyl phthalate, Low Level Water	4.8	U		0.35	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	Fluoranthene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	Pyrene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	137222		12/09/04 1607	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.047	0.19	1.00000	ug/L	137222		12/09/04 1607	dpk
	Chrysene, Low Level Water	0.48	U		0.043	0.48	1.00000	ug/L	137222		12/09/04 1607	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date:12/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.8	U		0.69	4.8	1.00000	ug/L	137222		12/09/04 1607	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	137222		12/09/04 1607	dpk
	Di-n-octyl phthalate, Low Level Water	9.6	U		2.4	9.6	1.00000	ug/L	137222		12/09/04 1607	dpk
	Benzo(b)fluoranthene, Low Level Water	0.38	U		0.064	0.38	1.00000	ug/L	137222		12/09/04 1607	dpk
	Benzo(k)fluoranthene, Low Level Water	0.38	U		0.069	0.38	1.00000	ug/L	137222		12/09/04 1607	dpk
	Benzo(a)pyrene, Low Level Water	0.38	U		0.081	0.38	1.00000	ug/L	137222		12/09/04 1607	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.38	U		0.083	0.38	1.00000	ug/L	137222		12/09/04 1607	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.38	U		0.12	0.38	1.00000	ug/L	137222		12/09/04 1607	dpk
	Benzo(ghi)perylene, Low Level Water	0.96	U		0.18	0.96	1.00000	ug/L	137222		12/09/04 1607	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date:12/21/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYmw-009-ER
Date Sampled.....: 12/02/2004
Time Sampled.....: 14:10
Sample Matrix.....: Water

Laboratory Sample ID: 232409-3
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.63	U		0.14	0.63	1.00000	ug/L	137479		12/15/04 2237	san
	RDX	0.41	U		0.13	0.41	1.00000	ug/L	137479		12/15/04 2237	san
	1,3,5-Trinitrobenzene	0.41	U		0.12	0.41	1.00000	ug/L	137479		12/15/04 2237	san
	1,3-Dinitrobenzene	0.41	U		0.11	0.41	1.00000	ug/L	137479		12/15/04 2237	san
	Nitrobenzene	0.33	U		0.089	0.33	1.00000	ug/L	137479		12/15/04 2237	san
	2,4,6-TNT	0.51	U		0.16	0.51	1.00000	ug/L	137479		12/15/04 2237	san
	Tetryl	1.6	U		0.33	1.6	1.00000	ug/L	137479		12/15/04 2237	san
	2,4-Dinitrotoluene	0.73	U		0.25	0.73	1.00000	ug/L	137479		12/15/04 2237	san
	2,6-Dinitrotoluene	0.87	U		0.29	0.87	1.00000	ug/L	137479		12/15/04 2237	san
	2-Amino-4,6-Dinitrotoluene	0.73	U		0.24	0.73	1.00000	ug/L	137479		12/15/04 2237	san
	4-Amino-2,6-Dinitrotoluene	0.67	U		0.23	0.67	1.00000	ug/L	137479		12/15/04 2237	san
	2-Nitrotoluene	0.63	U		0.19	0.63	1.00000	ug/L	137479		12/15/04 2237	san
	4-Nitrotoluene	0.63	U		0.20	0.63	1.00000	ug/L	137479		12/15/04 2237	san
	3-Nitrotoluene	0.63	U		0.21	0.63	1.00000	ug/L	137479		12/15/04 2237	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	2.0	U	a	0.31	2.0	1.00000	ug/L	137473		12/08/04 0616	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: ASYmw-009-ER

Trace Level Organic Compounds

Lot-Sample #...:	G4L030390-003	Work Order #...:	GX9111AC	Matrix.....:	WATER
Date Sampled...:	12/02/04 14:10	Date Received..:	12/03/04		
Prep Date.....:	12/08/04	Analysis Date..:	12/09/04		
Prep Batch #...:	4342546				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: ASYmw-009-ER

General Chemistry

Lot-Sample #...: G4L030390-003 Work Order #...: GX911 Matrix.....: WATER
Date Sampled...: 12/02/04 Date Received..: 12/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/15-12/16/04	4351318
		MDL.....: 0.12				

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LABORATORY TEST RESULTS

Job Number: 232603 Date:01/04/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	137013		12/13/04 2315	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	136999		12/13/04 2209	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	137235		12/16/04 0813	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	137028		12/13/04 1917	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	137472		12/17/04 1420	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	137992		12/22/04 1543	lmr
	Barium	10	U		1.3	10	1	ug/L	137992		12/22/04 1543	lmr
	Beryllium	2.0	U		0.25	2.0	1	ug/L	137992		12/22/04 1543	lmr
	Cadmium	2.0	U		0.25	2.0	1	ug/L	137992		12/22/04 1543	lmr
	Calcium	85	B		9.5	100	1	ug/L	137992		12/22/04 1543	lmr
	Chromium	10	U		1.1	10	1	ug/L	137992		12/22/04 1543	lmr
	Cobalt	5.0	U		0.80	5.0	1	ug/L	137992		12/22/04 1543	lmr
	Copper	10	U		2.2	10	1	ug/L	137992		12/22/04 1543	lmr
	Iron	130			38	120	1	ug/L	138123		12/28/04 0403	lmr
	Magnesium	100	U		8.1	100	1	ug/L	137992		12/22/04 1543	lmr
	Manganese	10	U		0.41	10	1	ug/L	137992		12/22/04 1543	lmr
	Nickel	10	U		1.0	10	1	ug/L	137992		12/22/04 1543	lmr
	Potassium	130	B		66	500	1	ug/L	137992		12/22/04 1543	lmr

* In Description = Dry Wgt.

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Job Number: 232603

LABORATORY TEST RESULTS

Date:01/04/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	137992		12/22/04 1543	lmr
	Silver	10	U		0.72	10	1	ug/L	137992		12/22/04 1543	lmr
	Sodium	1500	U		490	1500	1	ug/L	137992		12/22/04 1543	lmr
	Vanadium	10	U		1.0	10	1	ug/L	137992		12/22/04 1543	lmr
	Zinc	2.3	B		1.6	30	1	ug/L	137992		12/22/04 1543	lmr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232603

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.047	0.15	1.00000	ug/L	137888		12/16/04 1223	kdl
	beta-BHC	0.10	U		0.028	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	delta-BHC	0.10	U		0.025	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	gamma-BHC (Lindane)	0.15	U		0.042	0.15	1.00000	ug/L	137888		12/16/04 1223	kdl
	Heptachlor	0.15	U		0.041	0.15	1.00000	ug/L	137888		12/16/04 1223	kdl
	Aldrin	0.10	U		0.028	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	Heptachlor epoxide	0.15	U		0.036	0.15	1.00000	ug/L	137888		12/16/04 1223	kdl
	Endosulfan I	0.10	U		0.021	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	Dieldrin	0.10	U		0.018	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	4,4'-DDE	0.10	U		0.023	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	Endrin	0.10	U		0.017	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	Endosulfan II	0.15	U		0.042	0.15	1.00000	ug/L	137888		12/16/04 1223	kdl
	4,4'-DDD	0.11	U		0.036	0.11	1.00000	ug/L	137888		12/16/04 1223	kdl
	Endosulfan sulfate	0.15	U		0.044	0.15	1.00000	ug/L	137888		12/16/04 1223	kdl
	4,4'-DDT	0.15	U		0.049	0.15	1.00000	ug/L	137888		12/16/04 1223	kdl
	Methoxychlor	0.60	U		0.17	0.60	1.00000	ug/L	137888		12/16/04 1223	kdl
	alpha-Chlordane	0.050	U		0.016	0.050	1.00000	ug/L	137888		12/16/04 1223	kdl
	gamma-Chlordane	0.10	U		0.017	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	Endrin aldehyde	0.15	U		0.035	0.15	1.00000	ug/L	137888		12/16/04 1223	kdl
	Endrin ketone	0.10	U		0.029	0.10	1.00000	ug/L	137888		12/16/04 1223	kdl
	Toxaphene	0.50	U		0.14	0.50	1.00000	ug/L	137888		12/16/04 1223	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232603 Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.60	U		0.18	0.60	1.00000	ug/L	137899		12/15/04 0535	pjg
	Aroclor 1221	1.3	U		0.42	1.3	1.00000	ug/L	137899		12/15/04 0535	pjg
	Aroclor 1232	1.3	U		0.35	1.3	1.00000	ug/L	137899		12/15/04 0535	pjg
	Aroclor 1242	1.3	U		0.43	1.3	1.00000	ug/L	137899		12/15/04 0535	pjg
	Aroclor 1248	1.5	U		0.48	1.5	1.00000	ug/L	137899		12/15/04 0535	pjg
	Aroclor 1254	1.3	U		0.35	1.3	1.00000	ug/L	137899		12/15/04 0535	pjg
	Aroclor 1260	0.60	U		0.17	0.60	1.00000	ug/L	137899		12/15/04 0535	pjg

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232603

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	137373		12/16/04 1943	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137373		12/16/04 1943	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137373		12/16/04 1943	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137373		12/16/04 1943	jdn
	Toluene	1.1			0.10	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137373		12/16/04 1943	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232603

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137373		12/16/04 1943	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232603

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.29	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.42	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.32	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	137856		12/15/04 1732	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.27	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	137856		12/15/04 1732	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.60	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.098	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	Nitrobenzene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	Benzoic acid, Low Level Water	20	U	*	2.9	20	1.00000	ug/L	137856		12/15/04 1732	dpk
	Isophorone, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	2,4-Dimethylphenol, Low Level Water	9.8	U		1.3	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.63	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	Naphthalene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	2,4-Dichlorophenol, Low Level Water	9.8	U		0.89	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	4-Chloroaniline, Low Level Water	9.8	U		2.7	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.8	U		1.4	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U		0.64	20	1.00000	ug/L	137856		12/15/04 1732	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	137856		12/15/04 1732	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.22	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232603 Date:12/22/2004

CUSTOMER: MKN Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.8	U		2.4	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	137856		12/15/04 1732	dpk
	2-Nitrophenol, Low Level Water	9.8	U		0.80	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	3-Nitroaniline, Low Level Water	9.8	U		2.1	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.2	20	1.00000	ug/L	137856		12/15/04 1732	dpk
	Acenaphthylene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	2,4-Dinitrotoluene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	Acenaphthene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	4-Nitrophenol, Low Level Water	20	U		3.6	20	1.00000	ug/L	137856		12/15/04 1732	dpk
	Fluorene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	4-Nitroaniline, Low Level Water	9.8	U		2.3	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.19	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.095	0.49	1.00000	ug/L	137856		12/15/04 1732	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.74	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	Pentachlorophenol, Low Level Water	9.8	U		1.7	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137856		12/15/04 1732	dpk
	Phenanthrene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	Anthracene, Low Level Water	0.98	U		0.15	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	Fluoranthene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	Pyrene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.38	2.0	1.00000	ug/L	137856		12/15/04 1732	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.048	0.20	1.00000	ug/L	137856		12/15/04 1732	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	137856		12/15/04 1732	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232603

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.71	4.9	1.00000	ug/L	137856		12/15/04 1732	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	137856		12/15/04 1732	dpk
	Di-n-octyl phthalate, Low Level Water	9.8	U		2.5	9.8	1.00000	ug/L	137856		12/15/04 1732	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.066	0.39	1.00000	ug/L	137856		12/15/04 1732	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.071	0.39	1.00000	ug/L	137856		12/15/04 1732	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	137856		12/15/04 1732	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.084	0.39	1.00000	ug/L	137856		12/15/04 1732	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	137856		12/15/04 1732	dpk
	Benzo(ghi)perylene, Low Level Water	0.98	U		0.19	0.98	1.00000	ug/L	137856		12/15/04 1732	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232603 Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVARP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: ASYsw-008-ER
Date Sampled.....: 12/08/2004
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-5
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.43	U		0.095	0.43	1.00000	ug/L	137848		12/17/04 0254	san
	RDX	0.28	U		0.090	0.28	1.00000	ug/L	137848		12/17/04 0254	san
	1,3,5-Trinitrobenzene	0.28	U		0.081	0.28	1.00000	ug/L	137848		12/17/04 0254	san
	1,3-Dinitrobenzene	0.28	U		0.077	0.28	1.00000	ug/L	137848		12/17/04 0254	san
	Nitrobenzene	0.22	U		0.062	0.22	1.00000	ug/L	137848		12/17/04 0254	san
	2,4,6-TNT	0.35	U		0.11	0.35	1.00000	ug/L	137848		12/17/04 0254	san
	Tetryl	1.1	U		0.23	1.1	1.00000	ug/L	137848		12/17/04 0254	san
	2,4-Dinitrotoluene	0.50	U		0.17	0.50	1.00000	ug/L	137848		12/17/04 0254	san
	2,6-Dinitrotoluene	0.60	U		0.20	0.60	1.00000	ug/L	137848		12/17/04 0254	san
	2-Amino-4,6-Dinitrotoluene	0.50	U		0.17	0.50	1.00000	ug/L	137848		12/17/04 0254	san
	4-Amino-2,6-Dinitrotoluene	0.46	U		0.16	0.46	1.00000	ug/L	137848		12/17/04 0254	san
	2-Nitrotoluene	0.43	U		0.13	0.43	1.00000	ug/L	137848		12/17/04 0254	san
	4-Nitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	137848		12/17/04 0254	san
	3-Nitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	137848		12/17/04 0254	san

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232789

Date:01/07/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10sd-005-ER
Date Sampled.....: 12/14/2004
Time Sampled.....: 08:30
Sample Matrix.....: Water

Laboratory Sample ID: 232789-5
Date Received.....: 12/15/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	137685		12/20/04 2312	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	137730		12/20/04 1339	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	137991		12/22/04 1432	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	137838		12/21/04 2037	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	137472		12/17/04 1538	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	138597		12/31/04 0757	tds
	Barium	1.4	B		1.3	10	1	ug/L	138597		12/31/04 0757	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	138597		12/31/04 0757	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	138597		12/31/04 0757	tds
	Calcium	270			9.5	100	1	ug/L	138597		12/31/04 0757	tds
	Chromium	1.7	B		1.1	10	1	ug/L	138597		12/31/04 0757	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	138597		12/31/04 0757	tds
	Copper	10	U		2.2	10	1	ug/L	138597		12/31/04 0757	tds
	Iron	120	U		38	120	1	ug/L	138597		12/31/04 0757	tds
	Magnesium	100	U		8.1	100	1	ug/L	138597		12/31/04 0757	tds
	Manganese	0.64	B		0.41	10	1	ug/L	138597		12/31/04 0757	tds
	Nickel	10	U		1.0	10	1	ug/L	138597		12/31/04 0757	tds
	Potassium	140	B		66	500	1	ug/L	138597		12/31/04 0757	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232789 Date:01/07/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10sd-005-ER
Date Sampled.....: 12/14/2004
Time Sampled.....: 08:30
Sample Matrix.....: Water

Laboratory Sample ID: 232789-5
Date Received.....: 12/15/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	138597		12/31/04 0757	tds
	Silver	10	U		0.72	10	1	ug/L	138597		12/31/04 0757	tds
	Sodium	1500	U		490	1500	1	ug/L	138597		12/31/04 0757	tds
	Vanadium	10	U		1.0	10	1	ug/L	138597		12/31/04 0757	tds
	Zinc	5.0	B		1.6	30	1	ug/L	138597		12/31/04 0757	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232789 Date:12/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10sd-005-ER
Date Sampled.....: 12/14/2004
Time Sampled.....: 08:30
Sample Matrix.....: Water

Laboratory Sample ID: 232789-5
Date Received.....: 12/15/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	138447		12/29/04 1711	san
	RDX	0.20	U		0.064	0.20	1.00000	ug/L	138447		12/29/04 1711	san
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	138447		12/29/04 1711	san
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	138447		12/29/04 1711	san
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	138447		12/29/04 1711	san
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	138447		12/29/04 1711	san
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	138447		12/29/04 1711	san
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	138447		12/29/04 1711	san
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	138447		12/29/04 1711	san
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	138447		12/29/04 1711	san
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	138447		12/29/04 1711	san
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	138447		12/29/04 1711	san
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	138447		12/29/04 1711	san
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	138447		12/29/04 1711	san

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232789

Date:01/10/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10sd-005-ER
Date Sampled.....: 12/14/2004
Time Sampled.....: 08:30
Sample Matrix.....: Water

Laboratory Sample ID: 232789-5
Date Received.....: 12/15/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric) Cyanide, Total	0.010	U		0.0044	0.010	1	mg/L	137366		12/16/04 1203	mtb

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233168

Date:01/24/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.20	U		0.057	0.20	1	mg/L	139240		01/12/05 1043	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233168

Date:01/19/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	139271		01/11/05 1317	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	139527		01/13/05 1435	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	139356		01/12/05 1204	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	139367		01/12/05 2107	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	138921		01/06/05 1434	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	139714		01/18/05 1047	tds
	Barium	10	U		1.3	10	1	ug/L	139714		01/18/05 1047	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	139714		01/18/05 1047	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	139714		01/18/05 1047	tds
	Calcium	600			9.5	100	1	ug/L	139714		01/18/05 1047	tds
	Chromium	10	U		1.1	10	1	ug/L	139714		01/18/05 1047	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	139714		01/18/05 1047	tds
	Copper	10	U		2.2	10	1	ug/L	139714		01/18/05 1047	tds
	Iron	120	U		38	120	1	ug/L	139710		01/18/05 1636	tds
	Magnesium	21	B		8.1	100	1	ug/L	139714		01/18/05 1047	tds
	Manganese	1.1	B		0.41	10	1	ug/L	139714		01/18/05 1047	tds
	Nickel	10	U		1.0	10	1	ug/L	139714		01/18/05 1047	tds
	Potassium	210	B		66	500	1	ug/L	139714		01/18/05 1047	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233168

Date:01/19/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	139710		01/18/05 1636	tds
	Silver	10	U		0.72	10	1	ug/L	139714		01/18/05 1047	tds
	Sodium	1500	U		490	1500	1	ug/L	139710		01/18/05 1636	tds
	Vanadium	10	U		1.0	10	1	ug/L	139714		01/18/05 1047	tds
	Zinc	12	B		1.6	30	1	ug/L	139714		01/18/05 1047	tds

* In Description = Dry Wgt.

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Job Number: 233168

LABORATORY TEST RESULTS

Date:01/18/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	139633		01/08/05 0546	kdl
	beta-BHC	0.098	U		0.027	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	delta-BHC	0.098	U		0.025	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	139633		01/08/05 0546	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	139633		01/08/05 0546	kdl
	Aldrin	0.098	U		0.027	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	139633		01/08/05 0546	kdl
	Endosulfan I	0.098	U		0.021	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	Dieldrin	0.098	U		0.018	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	4,4'-DDE	0.055	J		0.023	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	Endrin	0.098	U		0.017	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	139633		01/08/05 0546	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	139633		01/08/05 0546	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	139633		01/08/05 0546	kdl
	4,4'-DDT	0.058	J		0.048	0.15	1.00000	ug/L	139633		01/08/05 0546	kdl
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	139633		01/08/05 0546	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	139633		01/08/05 0546	kdl
	gamma-Chlordane	0.098	U		0.017	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	139633		01/08/05 0546	kdl
	Endrin ketone	0.098	U		0.028	0.098	1.00000	ug/L	139633		01/08/05 0546	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	139633		01/08/05 0546	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233168 Date:01/13/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.59	U		0.18	0.59	1.00000	ug/L	139331		01/10/05 1139	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	139331		01/10/05 1139	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	139331		01/10/05 1139	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	139331		01/10/05 1139	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	139331		01/10/05 1139	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	139331		01/10/05 1139	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	139331		01/10/05 1139	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233168

Date:01/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	139434		01/07/05 2127	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	139434		01/07/05 2127	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	139434		01/07/05 2127	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	139434		01/07/05 2127	jdn
	Toluene	2.7			0.10	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	139434		01/07/05 2127	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233168

Date:01/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	139434		01/07/05 2127	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233168

LABORATORY TEST RESULTS

Date:01/18/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.42	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	139612		01/14/05 1230	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	139612		01/14/05 1230	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.59	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.097	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Nitrobenzene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	139612		01/14/05 1230	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	2,4-Dimethylphenol, Low Level Water	9.7	U		1.3	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.62	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Naphthalene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	2,4-Dichlorophenol, Low Level Water	9.7	U		0.88	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	4-Chloroaniline, Low Level Water	9.7	U		2.7	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.20	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.7	U		1.4	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U		0.63	19	1.00000	ug/L	139612		01/14/05 1230	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	139612		01/14/05 1230	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk

* In Description = Dry Wgt.

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Job Number: 233168

LABORATORY TEST RESULTS

Date:01/18/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.7	U		2.3	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	139612		01/14/05 1230	dpk
	2-Nitrophenol, Low Level Water	9.7	U		0.80	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	3-Nitroaniline, Low Level Water	9.7	U		2.0	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	139612		01/14/05 1230	dpk
	Acenaphthylene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	2,4-Dinitrotoluene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	Acenaphthene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.13	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	139612		01/14/05 1230	dpk
	Fluorene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	4-Nitroaniline, Low Level Water	9.7	U		2.2	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.18	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.094	0.49	1.00000	ug/L	139612		01/14/05 1230	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.15	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.73	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Pentachlorophenol, Low Level Water	9.7	U		1.7	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	139612		01/14/05 1230	dpk
	Phenanthrene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	Anthracene, Low Level Water	0.97	U		0.15	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Fluoranthene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	Pyrene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.38	1.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.048	0.19	1.00000	ug/L	139612		01/14/05 1230	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	139612		01/14/05 1230	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233168

Date:01/18/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.70	4.9	1.00000	ug/L	139612		01/14/05 1230	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	139612		01/14/05 1230	dpk
	Di-n-octyl phthalate, Low Level Water	9.7	U		2.4	9.7	1.00000	ug/L	139612		01/14/05 1230	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.065	0.39	1.00000	ug/L	139612		01/14/05 1230	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.070	0.39	1.00000	ug/L	139612		01/14/05 1230	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	139612		01/14/05 1230	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.083	0.39	1.00000	ug/L	139612		01/14/05 1230	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	139612		01/14/05 1230	dpk
	Benzo(ghi)perylene, Low Level Water	0.97	U		0.18	0.97	1.00000	ug/L	139612		01/14/05 1230	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233168

LABORATORY TEST RESULTS

Date:01/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5mw-004-ER
Date Sampled.....: 01/04/2005
Time Sampled.....: 08:40
Sample Matrix.....: Water

Laboratory Sample ID: 233168-3
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.61	U		0.13	0.61	1.00000	ug/L	139536		01/14/05 1904	san
	RDX	0.40	U		0.13	0.40	1.00000	ug/L	139536		01/14/05 1904	san
	1,3,5-Trinitrobenzene	0.40	U		0.12	0.40	1.00000	ug/L	139536		01/14/05 1904	san
	1,3-Dinitrobenzene	0.40	U		0.11	0.40	1.00000	ug/L	139536		01/14/05 1904	san
	Nitrobenzene	0.32	U		0.087	0.32	1.00000	ug/L	139536		01/14/05 1904	san
	2,4,6-TNT	0.50	U		0.15	0.50	1.00000	ug/L	139536		01/14/05 1904	san
	Tetryl	1.5	U		0.33	1.5	1.00000	ug/L	139536		01/14/05 1904	san
	2,4-Dinitrotoluene	0.71	U		0.24	0.71	1.00000	ug/L	139536		01/14/05 1904	san
	2,6-Dinitrotoluene	0.85	U		0.28	0.85	1.00000	ug/L	139536		01/14/05 1904	san
	2-Amino-4,6-Dinitrotoluene	0.71	U		0.24	0.71	1.00000	ug/L	139536		01/14/05 1904	san
	4-Amino-2,6-Dinitrotoluene	0.65	U		0.22	0.65	1.00000	ug/L	139536		01/14/05 1904	san
	2-Nitrotoluene	0.61	U		0.18	0.61	1.00000	ug/L	139536		01/14/05 1904	san
	4-Nitrotoluene	0.61	U		0.20	0.61	1.00000	ug/L	139536		01/14/05 1904	san
	3-Nitrotoluene	0.61	U		0.20	0.61	1.00000	ug/L	139536		01/14/05 1904	san

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426 Date:01/25/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	139654		01/17/05 1638	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	139685		01/17/05 1440	daj
7421	Lead (GFAA)											
	Lead	1.1	B		0.79	3.0	1	ug/L	139852		01/18/05 1724	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	139652		01/18/05 0042	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	139596		01/14/05 1445	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	139815		01/19/05 1629	tds
	Barium	10	U		1.3	10	1	ug/L	139815		01/19/05 1629	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	139815		01/19/05 1629	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	139815		01/19/05 1629	tds
	Calcium	520			9.5	100	1	ug/L	140205		01/21/05 1418	tds
	Chromium	10	U		1.1	10	1	ug/L	139815		01/19/05 1629	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	139815		01/19/05 1629	tds
	Copper	10	U		2.2	10	1	ug/L	139815		01/19/05 1629	tds
	Iron	120	U		38	120	1	ug/L	139927		01/20/05 1444	tds
	Magnesium	12	B		8.1	100	1	ug/L	139815		01/19/05 1629	tds
	Manganese	10	U		0.41	10	1	ug/L	139815		01/19/05 1629	tds
	Nickel	10	U		1.0	10	1	ug/L	139815		01/19/05 1629	tds
	Potassium	200	B		66	500	1	ug/L	139815		01/19/05 1629	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426

Date:01/25/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	139815		01/19/05 1629	tds
	Silver	10	U		0.72	10	1	ug/L	139815		01/19/05 1629	tds
	Sodium	1500	U		490	1500	1	ug/L	139927		01/20/05 1444	tds
	Vanadium	10	U		1.0	10	1	ug/L	139815		01/19/05 1629	tds
	Zinc	5.7	B		1.6	30	1	ug/L	139815		01/19/05 1629	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426 Date:01/27/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	140416		01/17/05 1501	kdl
	beta-BHC	0.096	U		0.027	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	delta-BHC	0.096	U		0.024	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	140416		01/17/05 1501	kdl
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	140416		01/17/05 1501	kdl
	Aldrin	0.096	U		0.027	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	Heptachlor epoxide	0.14	U		0.035	0.14	1.00000	ug/L	140416		01/17/05 1501	kdl
	Endosulfan I	0.096	U		0.020	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	Dieldrin	0.096	U		0.017	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	4,4'-DDE	0.096	U		0.022	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	Endrin	0.096	U		0.016	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	140416		01/17/05 1501	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	140416		01/17/05 1501	kdl
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	140416		01/17/05 1501	kdl
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	140416		01/17/05 1501	kdl
	Methoxychlor	0.58	U		0.16	0.58	1.00000	ug/L	140416		01/17/05 1501	kdl
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	140416		01/17/05 1501	kdl
	gamma-Chlordane	0.096	U		0.016	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	Endrin aldehyde	0.14	U		0.034	0.14	1.00000	ug/L	140416		01/17/05 1501	kdl
	Endrin ketone	0.096	U	*	0.028	0.096	1.00000	ug/L	140416		01/17/05 1501	kdl
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	140416		01/17/05 1501	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426 Date:01/26/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	140343		01/17/05 1751	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	140343		01/17/05 1751	bjt
	Aroclor 1232	1.2	U		0.34	1.2	1.00000	ug/L	140343		01/17/05 1751	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	140343		01/17/05 1751	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	140343		01/17/05 1751	bjt
	Aroclor 1254	1.2	U		0.34	1.2	1.00000	ug/L	140343		01/17/05 1751	bjt
	Aroclor 1260	0.58	U		0.16	0.58	1.00000	ug/L	140343		01/17/05 1751	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426

Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Carbon disulfide	1.1	J		0.20	5.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Acetone	10	J	*	1.8	10	1.00000	ug/L	139628		01/17/05 1938	jdn
	Methylene chloride	1.0	U		0.35	1.5	1.00000	ug/L	139628		01/17/05 1938	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	2-Butanone (MEK)	10	U	*	1.2	10	1.00000	ug/L	139628		01/17/05 1938	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	4-Methyl-2-pentanone (MIBK)	10	U	*	0.65	10	1.00000	ug/L	139628		01/17/05 1938	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	2-Hexanone	10	U	*	0.53	10	1.00000	ug/L	139628		01/17/05 1938	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426

Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,2-Dibromoethane (EDB)	1.0	U	*	0.13	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	139628		01/17/05 1938	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426

Date:01/21/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	5.1	U		0.36	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.44	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.36	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	139958		01/17/05 1252	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.27	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.29	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.51	U		0.083	0.51	1.00000	ug/L	139958		01/17/05 1252	dpk
	Hexachloroethane, Low Level Water	5.1	U		0.62	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.10	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	2-Chlorophenol, Low Level Water	5.1	U		0.12	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	Nitrobenzene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.32	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Benzoic acid, Low Level Water	20	U		3.1	20	1.00000	ug/L	139958		01/17/05 1252	dpk
	Isophorone, Low Level Water	2.0	U		0.27	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	2,4-Dimethylphenol, Low Level Water	10	U		1.3	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	Hexachlorobutadiene, Low Level Water	5.1	U		0.65	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	Naphthalene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	2,4-Dichlorophenol, Low Level Water	10	U		0.93	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	4-Chloroaniline, Low Level Water	10	U		2.9	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.1	U		0.21	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	2,4,5-Trichlorophenol, Low Level Water	10	U		1.4	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U		0.66	20	1.00000	ug/L	139958		01/17/05 1252	dpk
	2-Methylnaphthalene, Low Level Water	0.51	U		0.13	0.51	1.00000	ug/L	139958		01/17/05 1252	dpk
	2-Nitroaniline, Low Level Water	5.1	U		0.22	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.27	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426

Date:01/21/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	10	U		2.4	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	2,6-Dinitrotoluene, Low Level Water	0.51	U		0.11	0.51	1.00000	ug/L	139958		01/17/05 1252	dpk
	2-Nitrophenol, Low Level Water	10	U		0.84	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	3-Nitroaniline, Low Level Water	10	U		2.1	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.4	20	1.00000	ug/L	139958		01/17/05 1252	dpk
	Acenaphthylene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	2,4-Dinitrotoluene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Acenaphthene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	4-Nitrophenol, Low Level Water	20	U		3.8	20	1.00000	ug/L	139958		01/17/05 1252	dpk
	Fluorene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	4-Nitroaniline, Low Level Water	10	U		2.3	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.1	U		0.19	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	Hexachlorobenzene, Low Level Water	0.51	U		0.099	0.51	1.00000	ug/L	139958		01/17/05 1252	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.1	U		0.77	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	Pentachlorophenol, Low Level Water	10	U		1.7	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	n-Nitrosodiphenylamine, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	139958		01/17/05 1252	dpk
	Phenanthrene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Anthracene, Low Level Water	1.0	U		0.15	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Carbazole, Low Level Water	5.1	U		0.30	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	Di-n-butyl phthalate, Low Level Water	5.1	U		0.37	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	Fluoranthene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Pyrene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.40	2.0	1.00000	ug/L	139958		01/17/05 1252	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.050	0.20	1.00000	ug/L	139958		01/17/05 1252	dpk
	Chrysene, Low Level Water	0.51	U		0.046	0.51	1.00000	ug/L	139958		01/17/05 1252	dpk

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 233426

Date:01/21/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.1	U		0.73	5.1	1.00000	ug/L	139958		01/17/05 1252	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		4.0	15	1.00000	ug/L	139958		01/17/05 1252	dpk
	Di-n-octyl phthalate, Low Level Water	10	U		2.6	10	1.00000	ug/L	139958		01/17/05 1252	dpk
	Benzo(b)fluoranthene, Low Level Water	0.41	U		0.068	0.41	1.00000	ug/L	139958		01/17/05 1252	dpk
	Benzo(k)fluoranthene, Low Level Water	0.41	U		0.073	0.41	1.00000	ug/L	139958		01/17/05 1252	dpk
	Benzo(a)pyrene, Low Level Water	0.41	U		0.086	0.41	1.00000	ug/L	139958		01/17/05 1252	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.41	U		0.088	0.41	1.00000	ug/L	139958		01/17/05 1252	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.41	U		0.13	0.41	1.00000	ug/L	139958		01/17/05 1252	dpk
	Benzo(ghi)perylene, Low Level Water	1.0	U		0.19	1.0	1.00000	ug/L	139958		01/17/05 1252	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233426 Date: 01/26/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWmw-024-ER
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-1
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.39	U		0.085	0.39	1.00000	ug/L	140328		01/14/05 1306	san
	RDX	0.25	U		0.080	0.25	1.00000	ug/L	140328		01/14/05 1306	san
	1,3,5-Trinitrobenzene	0.25	U		0.072	0.25	1.00000	ug/L	140328		01/14/05 1306	san
	1,3-Dinitrobenzene	0.25	U		0.069	0.25	1.00000	ug/L	140328		01/14/05 1306	san
	Nitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	140328		01/14/05 1306	san
	2,4,6-TNT	0.31	U		0.098	0.31	1.00000	ug/L	140328		01/14/05 1306	san
	Tetryl	0.98	U		0.20	0.98	1.00000	ug/L	140328		01/14/05 1306	san
	2,4-Dinitrotoluene	0.45	U		0.15	0.45	1.00000	ug/L	140328		01/14/05 1306	san
	2,6-Dinitrotoluene	0.54	U		0.18	0.54	1.00000	ug/L	140328		01/14/05 1306	san
	2-Amino-4,6-Dinitrotoluene	0.45	U		0.15	0.45	1.00000	ug/L	140328		01/14/05 1306	san
	4-Amino-2,6-Dinitrotoluene	0.41	U		0.14	0.41	1.00000	ug/L	140328		01/14/05 1306	san
	2-Nitrotoluene	0.39	U		0.12	0.39	1.00000	ug/L	140328		01/14/05 1306	san
	4-Nitrotoluene	0.39	U		0.12	0.39	1.00000	ug/L	140328		01/14/05 1306	san
	3-Nitrotoluene	0.39	U		0.13	0.39	1.00000	ug/L	140328		01/14/05 1306	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.2	U		0.19	1.2	1.00000	ug/L	140322		01/14/05 0903	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LNWmw-024-ER

Trace Level Organic Compounds

Lot-Sample #...: G5A130351-001 Work Order #...: G2KH61AC Matrix.....: WH
Date Sampled...: 01/12/05 08:00 Date Received..: 01/13/05
Prep Date.....: 01/17/05 Analysis Date..: 01/19/05
Prep Batch #...: 5017486
Dilution Factor: 1 Initial Wgt/Vol: 10 mL Final Wgt/Vol..: 10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LNWmw-024-ER

General Chemistry

Lot-Sample #...: G5A130351-001 Work Order #...: G2KH6 Matrix.....: WH
Date Sampled...: 01/12/05 Date Received..: 01/13/05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	0.14 B,J	0.50	mg/L	MCAWW 353.2	01/17-01/18/05	5017497
	MDL.....: 0.12					

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 233502

LABORATORY TEST RESULTS

Date:01/26/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	139858		01/19/05 1607	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	140084		01/20/05 1247	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	140165		01/20/05 1441	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	139832		01/19/05 1527	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	139868		01/19/05 1456	daj
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	139815		01/19/05 1737	tds
	Barium	10	U		1.3	10	1	ug/L	139815		01/19/05 1737	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	139815		01/19/05 1737	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	139815		01/19/05 1737	tds
	Calcium	420			9.5	100	1	ug/L	139815		01/19/05 1737	tds
	Chromium	10	U		1.1	10	1	ug/L	139815		01/19/05 1737	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	139815		01/19/05 1737	tds
	Copper	10	U		2.2	10	1	ug/L	139815		01/19/05 1737	tds
	Iron	120	U		38	120	1	ug/L	139815		01/19/05 1737	tds
	Magnesium	14	B		8.1	100	1	ug/L	139815		01/19/05 1737	tds
	Manganese	10	U		0.41	10	1	ug/L	139815		01/19/05 1737	tds
	Nickel	10	U		1.0	10	1	ug/L	139815		01/19/05 1737	tds
	Potassium	210	B		66	500	1	ug/L	139815		01/19/05 1737	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233502

LABORATORY TEST RESULTS

Date:01/26/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LfDmw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	139815		01/19/05 1737	tds
	Silver	10	U		0.72	10	1	ug/L	139815		01/19/05 1737	tds
	Sodium	1500	U		490	1500	1	ug/L	139927		01/20/05 1605	tds
	Vanadium	10	U		1.0	10	1	ug/L	139815		01/19/05 1737	tds
	Zinc	6.8	B		1.6	30	1	ug/L	139815		01/19/05 1737	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233502

LABORATORY TEST RESULTS

Date:01/27/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	140481		01/27/05 0637	kdl
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	140481		01/27/05 0637	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	140481		01/27/05 0637	kdl
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	140481		01/27/05 0637	kdl
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	140481		01/27/05 0637	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	140481		01/27/05 0637	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	140481		01/27/05 0637	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	140481		01/27/05 0637	kdl
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	140481		01/27/05 0637	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	140481		01/27/05 0637	kdl
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	140481		01/27/05 0637	kdl
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	140481		01/27/05 0637	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	140481		01/27/05 0637	kdl

* In Description = Dry Wgt.

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Job Number: 233502

LABORATORY TEST RESULTS

Date:01/27/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	140448		01/19/05 1731	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	140448		01/19/05 1731	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	140448		01/19/05 1731	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	140448		01/19/05 1731	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	140448		01/19/05 1731	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	140448		01/19/05 1731	bjt
	Aroclor 1260	0.58	U		0.17	0.58	1.00000	ug/L	140448		01/19/05 1731	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233502 Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Acetone	10	U	*	1.8	10	1.00000	ug/L	139628		01/17/05 2325	jdn
	Methylene chloride	2.5			0.35	1.5	1.00000	ug/L	139628		01/17/05 2325	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	2-Butanone (MEK)	10	U	*	1.2	10	1.00000	ug/L	139628		01/17/05 2325	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	4-Methyl-2-pentanone (MIBK)	10	U	*	0.65	10	1.00000	ug/L	139628		01/17/05 2325	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	2-Hexanone	10	U	*	0.53	10	1.00000	ug/L	139628		01/17/05 2325	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233502

Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,2-Dibromoethane (EDB)	1.0	U	*	0.13	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	139628		01/17/05 2325	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 233502 Date:01/25/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	5.0	U		0.35	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	139969		01/20/05 1330	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.081	0.50	1.00000	ug/L	139969		01/20/05 1330	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.61	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.10	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Nitrobenzene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	139969		01/20/05 1330	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	2,4-Dimethylphenol, Low Level Water	10	U		1.3	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.64	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Naphthalene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	2,4-Dichlorophenol, Low Level Water	10	U		0.91	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	4-Chloroaniline, Low Level Water	10	U		2.8	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	2,4,5-Trichlorophenol, Low Level Water	10	U		1.4	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U		0.65	20	1.00000	ug/L	139969		01/20/05 1330	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	139969		01/20/05 1330	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U	*	0.26	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233502 Date:01/25/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	10	U		2.4	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	139969		01/20/05 1330	dpk
	2-Nitrophenol, Low Level Water	10	U		0.82	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	3-Nitroaniline, Low Level Water	10	U		2.1	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	139969		01/20/05 1330	dpk
	Acenaphthylene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	2,4-Dinitrotoluene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Acenaphthene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	139969		01/20/05 1330	dpk
	Fluorene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	4-Nitroaniline, Low Level Water	10	U		2.3	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.097	0.50	1.00000	ug/L	139969		01/20/05 1330	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.75	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Pentachlorophenol, Low Level Water	10	U		1.7	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	n-Nitrosodiphenylamine, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	139969		01/20/05 1330	dpk
	Phenanthrene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Anthracene, Low Level Water	1.0	U		0.15	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Fluoranthene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Pyrene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	139969		01/20/05 1330	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	139969		01/20/05 1330	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233502 Date:01/25/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.72	5.0	1.00000	ug/L	139969		01/20/05 1330	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	139969		01/20/05 1330	dpk
	Di-n-octyl phthalate, Low Level Water	10	U		2.5	10	1.00000	ug/L	139969		01/20/05 1330	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.067	0.40	1.00000	ug/L	139969		01/20/05 1330	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.072	0.40	1.00000	ug/L	139969		01/20/05 1330	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.084	0.40	1.00000	ug/L	139969		01/20/05 1330	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.086	0.40	1.00000	ug/L	139969		01/20/05 1330	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	139969		01/20/05 1330	dpk
	Benzo(ghi)perylene, Low Level Water	1.0	U		0.19	1.0	1.00000	ug/L	139969		01/20/05 1330	dpk

* In Description = Dry Wgt.

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Job Number: 233502

LABORATORY TEST RESULTS

Date:01/27/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L1Dmw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.38	U		0.084	0.38	1.00000	ug/L	140396		01/18/05 0126	san
	RDX	0.25	U		0.079	0.25	1.00000	ug/L	140396		01/18/05 0126	san
	1,3,5-Trinitrobenzene	0.25	U		0.072	0.25	1.00000	ug/L	140396		01/18/05 0126	san
	1,3-Dinitrobenzene	0.25	U		0.068	0.25	1.00000	ug/L	140396		01/18/05 0126	san
	Nitrobenzene	0.20	U		0.054	0.20	1.00000	ug/L	140396		01/18/05 0126	san
	2,4,6-TNT	0.31	U		0.096	0.31	1.00000	ug/L	140396		01/18/05 0126	san
	Tetryl	0.96	U		0.20	0.96	1.00000	ug/L	140396		01/18/05 0126	san
	2,4-Dinitrotoluene	0.44	U		0.15	0.44	1.00000	ug/L	140396		01/18/05 0126	san
	2,6-Dinitrotoluene	0.53	U		0.18	0.53	1.00000	ug/L	140396		01/18/05 0126	san
	2-Amino-4,6-Dinitrotoluene	0.44	U		0.15	0.44	1.00000	ug/L	140396		01/18/05 0126	san
	4-Amino-2,6-Dinitrotoluene	0.41	U		0.14	0.41	1.00000	ug/L	140396		01/18/05 0126	san
	2-Nitrotoluene	0.38	U		0.11	0.38	1.00000	ug/L	140396		01/18/05 0126	san
	4-Nitrotoluene	0.38	U		0.12	0.38	1.00000	ug/L	140396		01/18/05 0126	san
	3-Nitrotoluene	0.38	U		0.12	0.38	1.00000	ug/L	140396		01/18/05 0126	san

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233502

LABORATORY TEST RESULTS

Date:01/25/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8015B MDRO	TPH - Diesel Range Organics (DRO) Diesel Range Organics (DRO)	0.12	U		0.028	0.12	1.00000	mg/L	140196		01/21/05 1407	pjg

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233502

LABORATORY TEST RESULTS

Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: L10mw-006-ER
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-1
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8015B MGRO	TPH - Gasoline Range Organics (GRO) Gasoline Range Organics (GRO)	50	U		16	50	1.00000	ug/L	139795		01/19/05 0731	wre

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685

Date:02/07/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.20	U		0.057	0.20	1	mg/L	140461		01/27/05 1223	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685

Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA) Antimony	7.5	U		2.5	7.5	1	ug/L	140534		01/27/05 1852	daj
7060A	Arsenic (GFAA) Arsenic	2.0	U		0.51	2.0	1	ug/L	140662		01/28/05 1344	daj
7421	Lead (GFAA) Lead	3.0	U		0.79	3.0	1	ug/L	140683		01/28/05 1928	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	140464		01/27/05 0016	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.063	0.20	1	ug/L	140763		01/28/05 1329	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	140536		01/28/05 0235	tds
	Barium	10	U		1.3	10	1	ug/L	140536		01/28/05 0235	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	140536		01/28/05 0235	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	140536		01/28/05 0235	tds
	Calcium	92	B		9.5	100	1	ug/L	140536		01/28/05 0235	tds
	Chromium	10	U		1.1	10	1	ug/L	140536		01/28/05 0235	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	140536		01/28/05 0235	tds
	Copper	10	U		2.2	10	1	ug/L	140536		01/28/05 0235	tds
	Iron	120	U		38	120	1	ug/L	140536		01/28/05 0235	tds
	Magnesium	100	U		8.1	100	1	ug/L	140536		01/28/05 0235	tds
	Manganese	10	U		0.41	10	1	ug/L	140536		01/28/05 0235	tds
	Nickel	10	U		1.0	10	1	ug/L	140536		01/28/05 0235	tds
	Potassium	99	B		66	500	1	ug/L	140536		01/28/05 0235	tds

* in Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685

Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	140536		01/28/05 0235	tds
	Silver	10	U		0.72	10	1	ug/L	140536		01/28/05 0235	tds
	Sodium	1500	U		490	1500	1	ug/L	140642		01/28/05 2021	tds
	Vanadium	10	U		1.0	10	1	ug/L	140536		01/28/05 0235	tds
	Zinc	30	U		1.6	30	1	ug/L	140536		01/28/05 0235	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685 Date:02/04/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADGS ATTN: Eric ELLis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.044	0.14	1.00000	ug/L	141140		01/28/05 0151	bjt
	beta-BHC	0.094	U		0.026	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	delta-BHC	0.094	U		0.024	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	141140		01/28/05 0151	bjt
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	141140		01/28/05 0151	bjt
	Aldrin	0.094	U		0.026	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	Heptachlor epoxide	0.14	U		0.034	0.14	1.00000	ug/L	141140		01/28/05 0151	bjt
	Endosulfan I	0.094	U		0.020	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	Dieldrin	0.094	U		0.017	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	4,4'-DDE	0.094	U		0.022	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	Endrin	0.094	U		0.016	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	141140		01/28/05 0151	bjt
	4,4'-DDD	0.10	U		0.034	0.10	1.00000	ug/L	141140		01/28/05 0151	bjt
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	141140		01/28/05 0151	bjt
	4,4'-DDT	0.14	U		0.046	0.14	1.00000	ug/L	141140		01/28/05 0151	bjt
	Methoxychlor	0.57	U		0.16	0.57	1.00000	ug/L	141140		01/28/05 0151	bjt
	alpha-Chlordane	0.047	U		0.015	0.047	1.00000	ug/L	141140		01/28/05 0151	bjt
	gamma-Chlordane	0.094	U		0.016	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	Endrin aldehyde	0.14	U		0.033	0.14	1.00000	ug/L	141140		01/28/05 0151	bjt
	Endrin ketone	0.094	U		0.027	0.094	1.00000	ug/L	141140		01/28/05 0151	bjt
	Toxaphene	0.47	U		0.13	0.47	1.00000	ug/L	141140		01/28/05 0151	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685

Date:02/04/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVARP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.57	U		0.17	0.57	1.00000	ug/L	141003		01/25/05 2222	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	141003		01/25/05 2222	bjt
	Aroclor 1232	1.2	U		0.33	1.2	1.00000	ug/L	141003		01/25/05 2222	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	141003		01/25/05 2222	bjt
	Aroclor 1248	1.4	U		0.45	1.4	1.00000	ug/L	141003		01/25/05 2222	bjt
	Aroclor 1254	1.2	U		0.33	1.2	1.00000	ug/L	141003		01/25/05 2222	bjt
	Aroclor 1260	0.57	U		0.16	0.57	1.00000	ug/L	141003		01/25/05 2222	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685 Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Acetone	10	U		1.8	10	1.00000	ug/L	140908		02/02/05 0410	lm
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	140908		02/02/05 0410	lm
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	140908		02/02/05 0410	lm
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	140908		02/02/05 0410	lm
	Toluene	2.2			0.10	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	140908		02/02/05 0410	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685 Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	140908		02/02/05 0410	lm
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	140908		02/02/05 0410	lm
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	140908		02/02/05 0410	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685 Date:02/04/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.8	U		0.33	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.31	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	141183		01/31/05 0902	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.48	U		0.077	0.48	1.00000	ug/L	141183		01/31/05 0902	dpk
	Hexachloroethane, Low Level Water	4.8	U		0.58	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.095	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	2-Chlorophenol, Low Level Water	4.8	U		0.11	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	Nitrobenzene, Low Level Water	0.95	U		0.15	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	141183		01/31/05 0902	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	2,4-Dimethylphenol, Low Level Water	9.5	U		1.2	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	Hexachlorobutadiene, Low Level Water	4.8	U		0.61	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	Naphthalene, Low Level Water	0.95	U		0.15	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	2,4-Dichlorophenol, Low Level Water	9.5	U		0.87	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	4-Chloroaniline, Low Level Water	9.5	U		2.7	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.8	U		0.20	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.5	U		1.3	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U		0.62	19	1.00000	ug/L	141183		01/31/05 0902	dpk
	2-Methylnaphthalene, Low Level Water	0.48	U		0.12	0.48	1.00000	ug/L	141183		01/31/05 0902	dpk
	2-Nitroaniline, Low Level Water	4.8	U		0.21	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685 Date:02/04/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.5	U		2.3	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	2,6-Dinitrotoluene, Low Level Water	0.48	U		0.10	0.48	1.00000	ug/L	141183		01/31/05 0902	dpk
	2-Nitrophenol, Low Level Water	9.5	U		0.78	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	3-Nitroaniline, Low Level Water	9.5	U		2.0	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.1	19	1.00000	ug/L	141183		01/31/05 0902	dpk
	Acenaphthylene, Low Level Water	0.95	U		0.11	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	2,4-Dinitrotoluene, Low Level Water	0.95	U		0.12	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	Acenaphthene, Low Level Water	0.95	U		0.11	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	4-Nitrophenol, Low Level Water	19	U		3.5	19	1.00000	ug/L	141183		01/31/05 0902	dpk
	Fluorene, Low Level Water	0.95	U		0.12	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	4-Nitroaniline, Low Level Water	9.5	U		2.2	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.8	U		0.18	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	Hexachlorobenzene, Low Level Water	0.48	U		0.092	0.48	1.00000	ug/L	141183		01/31/05 0902	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.8	U		0.71	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	Pentachlorophenol, Low Level Water	9.5	U		1.6	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.95	U		0.12	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	141183		01/31/05 0902	dpk
	Phenanthrene, Low Level Water	0.95	U		0.13	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	Anthracene, Low Level Water	0.95	U		0.14	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	Carbazole, Low Level Water	4.8	U		0.28	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	Di-n-butyl phthalate, Low Level Water	4.8	U		0.34	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	Fluoranthene, Low Level Water	0.15	J		0.13	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	Pyrene, Low Level Water	0.17	J		0.11	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	141183		01/31/05 0902	dpk
	Benzo(a)anthracene, Low Level Water	0.19	J	H	0.047	0.19	1.00000	ug/L	141183		01/31/05 0902	dpk
	Chrysene, Low Level Water	0.25	J		0.043	0.48	1.00000	ug/L	141183		01/31/05 0902	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685 Date:02/04/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.8	U		0.69	4.8	1.00000	ug/L	141183		01/31/05 0902	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	141183		01/31/05 0902	dpk
	Di-n-octyl phthalate, Low Level Water	9.5	U		2.4	9.5	1.00000	ug/L	141183		01/31/05 0902	dpk
	Benzo(b)fluoranthene, Low Level Water	0.19	J	H	0.064	0.38	1.00000	ug/L	141183		01/31/05 0902	dpk
	Benzo(k)fluoranthene, Low Level Water	0.34	J		0.069	0.38	1.00000	ug/L	141183		01/31/05 0902	dpk
	Benzo(a)pyrene, Low Level Water	0.26	J		0.080	0.38	1.00000	ug/L	141183		01/31/05 0902	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.28	J		0.082	0.38	1.00000	ug/L	141183		01/31/05 0902	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.29	J		0.12	0.38	1.00000	ug/L	141183		01/31/05 0902	dpk
	Benzo(ghi)perylene, Low Level Water	0.32	J		0.18	0.95	1.00000	ug/L	141183		01/31/05 0902	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685

Date: 02/03/2005

CUSTOMER: MKN Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-006-ER
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-1
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	140977		01/25/05 2102	san
	RDX	0.20	U		0.064	0.20	1.00000	ug/L	140977		01/25/05 2102	san
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	140977		01/25/05 2102	san
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	140977		01/25/05 2102	san
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	140977		01/25/05 2102	san
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	140977		01/25/05 2102	san
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	140977		01/25/05 2102	san
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	140977		01/25/05 2102	san
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	140977		01/25/05 2102	san
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	140977		01/25/05 2102	san
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	140977		01/25/05 2102	san
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	140977		01/25/05 2102	san
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	140977		01/25/05 2102	san
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	140977		01/25/05 2102	san

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233967

Date:02/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.20	U		0.057	0.20	1	mg/L	142226		02/16/05 1534	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233967

Date:02/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	141411		02/07/05 1437	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	141544		02/08/05 1518	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	141389		02/07/05 1357	daj
7841	Thallium (GFAA)											
	Thallium	1.4	B		1.3	4.0	1	ug/L	141284		02/05/05 0156	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	142187		02/11/05 1247	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	142208		02/15/05 1715	tds
	Barium	10	U		1.3	10	1	ug/L	142208		02/15/05 1715	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	142208		02/15/05 1715	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	142208		02/15/05 1715	tds
	Calcium	130			9.5	100	1	ug/L	142208		02/15/05 1715	tds
	Chromium	1.2	B		1.1	10	1	ug/L	142208		02/15/05 1715	tds
	Cobalt	0.97	B		0.80	5.0	1	ug/L	142208		02/15/05 1715	tds
	Copper	10	U		2.2	10	1	ug/L	142208		02/15/05 1715	tds
	Iron	120	U		38	120	1	ug/L	142208		02/15/05 1715	tds
	Magnesium	9.8	B		8.1	100	1	ug/L	142208		02/15/05 1715	tds
	Manganese	10	U		0.41	10	1	ug/L	142208		02/15/05 1715	tds
	Nickel	10	U		1.0	10	1	ug/L	142208		02/15/05 1715	tds
	Potassium	220	B		66	500	1	ug/L	142208		02/15/05 1715	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233967 Date:02/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	142211		02/16/05 1636	tds
	Silver	1.0	B		0.72	10	1	ug/L	142208		02/15/05 1715	tds
	Sodium	1500	U		490	1500	1	ug/L	142208		02/15/05 1715	tds
	Vanadium	10	U		1.0	10	1	ug/L	142208		02/15/05 1715	tds
	Zinc	1.6	B		1.6	30	1	ug/L	142208		02/15/05 1715	tds

* In Description = Dry Wgt.

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Job Number: 233967

LABORATORY TEST RESULTS

Date:02/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	142289		02/09/05 0856	pjg
	beta-BHC	0.095	U		0.027	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	delta-BHC	0.095	U		0.024	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	142289		02/09/05 0856	pjg
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	142289		02/09/05 0856	pjg
	Aldrin	0.095	U		0.027	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	Heptachlor epoxide	0.14	U		0.034	0.14	1.00000	ug/L	142289		02/09/05 0856	pjg
	Endosulfan I	0.095	U		0.020	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	Dieldrin	0.095	U		0.017	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	4,4'-DDE	0.095	U		0.022	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	Endrin	0.095	U		0.016	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	142289		02/09/05 0856	pjg
	4,4'-DDD	0.10	U		0.034	0.10	1.00000	ug/L	142289		02/09/05 0856	pjg
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	142289		02/09/05 0856	pjg
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	142289		02/09/05 0856	pjg
	Methoxychlor	0.57	U	*	0.16	0.57	1.00000	ug/L	142289		02/09/05 0856	pjg
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	142289		02/09/05 0856	pjg
	gamma-Chlordane	0.095	U		0.016	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	Endrin aldehyde	0.14	U		0.033	0.14	1.00000	ug/L	142289		02/09/05 0856	pjg
	Endrin ketone	0.095	U		0.028	0.095	1.00000	ug/L	142289		02/09/05 0856	pjg
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	142289		02/09/05 0856	pjg

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233967

LABORATORY TEST RESULTS

Date:02/15/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.57	U		0.17	0.57	1.00000	ug/L	142020		02/07/05 1244	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	142020		02/07/05 1244	bjt
	Aroclor 1232	1.2	U		0.33	1.2	1.00000	ug/L	142020		02/07/05 1244	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	142020		02/07/05 1244	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	142020		02/07/05 1244	bjt
	Aroclor 1254	1.2	U		0.33	1.2	1.00000	ug/L	142020		02/07/05 1244	bjt
	Aroclor 1260	0.57	U		0.16	0.57	1.00000	ug/L	142020		02/07/05 1244	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233967 Date:02/10/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	141541		02/08/05 1927	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	141541		02/08/05 1927	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	141541		02/08/05 1927	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	141541		02/08/05 1927	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	141541		02/08/05 1927	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233967 Date:02/10/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	m&p-Xylenes	1.2	J		0.18	2.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn
	Xylenes (total)	1.3			0.28	1.0	1.00000	ug/L	141541		02/08/05 1927	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233967 Date:02/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.8	U		0.34	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	142269		02/11/05 1527	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.48	U		0.078	0.48	1.00000	ug/L	142269		02/11/05 1527	dpk
	Hexachloroethane, Low Level Water	4.8	U		0.59	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.096	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	2-Chlorophenol, Low Level Water	4.8	U		0.12	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	Nitrobenzene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	142269		02/11/05 1527	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	2,4-Dimethylphenol, Low Level Water	9.6	U		1.2	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	Hexachlorobutadiene, Low Level Water	4.8	U		0.62	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	Naphthalene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	2,4-Dichlorophenol, Low Level Water	9.6	U		0.87	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	4-Chloroaniline, Low Level Water	9.6	U		2.7	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.8	U		0.20	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.6	U		1.3	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.62	19	1.00000	ug/L	142269		02/11/05 1527	dpk
	2-Methylnaphthalene, Low Level Water	0.48	U	*	0.12	0.48	1.00000	ug/L	142269		02/11/05 1527	dpk
	2-Nitroaniline, Low Level Water	4.8	U		0.21	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 233967 Date:02/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.6	U		2.3	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	2,6-Dinitrotoluene, Low Level Water	0.48	U		0.11	0.48	1.00000	ug/L	142269		02/11/05 1527	dpk
	2-Nitrophenol, Low Level Water	9.6	U		0.79	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	3-Nitroaniline, Low Level Water	9.6	U		2.0	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	142269		02/11/05 1527	dpk
	Acenaphthylene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	2,4-Dinitrotoluene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	Acenaphthene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	142269		02/11/05 1527	dpk
	Fluorene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	4-Nitroaniline, Low Level Water	9.6	U		2.2	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.8	U		0.18	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	Hexachlorobenzene, Low Level Water	0.48	U		0.093	0.48	1.00000	ug/L	142269		02/11/05 1527	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.8	U		0.72	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	Pentachlorophenol, Low Level Water	9.6	U		1.6	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	142269		02/11/05 1527	dpk
	Phenanthrene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	Anthracene, Low Level Water	0.96	U		0.14	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	Carbazole, Low Level Water	4.8	U		0.28	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	Di-n-butyl phthalate, Low Level Water	4.8	U		0.35	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	Fluoranthene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	Pyrene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	142269		02/11/05 1527	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.047	0.19	1.00000	ug/L	142269		02/11/05 1527	dpk
	Chrysene, Low Level Water	0.48	U		0.043	0.48	1.00000	ug/L	142269		02/11/05 1527	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 233967 Date:02/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.8	U		0.69	4.8	1.00000	ug/L	142269		02/11/05 1527	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	142269		02/11/05 1527	dpk
	Di-n-octyl phthalate, Low Level Water	9.6	U		2.4	9.6	1.00000	ug/L	142269		02/11/05 1527	dpk
	Benzo(b)fluoranthene, Low Level Water	0.38	U		0.064	0.38	1.00000	ug/L	142269		02/11/05 1527	dpk
	Benzo(k)fluoranthene, Low Level Water	0.38	U		0.069	0.38	1.00000	ug/L	142269		02/11/05 1527	dpk
	Benzo(a)pyrene, Low Level Water	0.38	U		0.081	0.38	1.00000	ug/L	142269		02/11/05 1527	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.38	U		0.083	0.38	1.00000	ug/L	142269		02/11/05 1527	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.38	U		0.12	0.38	1.00000	ug/L	142269		02/11/05 1527	dpk
	Benzo(ghi)perylene, Low Level Water	0.96	U		0.18	0.96	1.00000	ug/L	142269		02/11/05 1527	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233967

LABORATORY TEST RESULTS

Date:02/11/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL8mw-005-ER
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-1
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FQ	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.46	U		0.10	0.46	1.00000	ug/L	141749		02/04/05 0321	san
	RDX	0.30	U		0.096	0.30	1.00000	ug/L	141749		02/04/05 0321	san
	1,3,5-Trinitrobenzene	0.30	U		0.087	0.30	1.00000	ug/L	141749		02/04/05 0321	san
	1,3-Dinitrobenzene	0.30	U		0.082	0.30	1.00000	ug/L	141749		02/04/05 0321	san
	Nitrobenzene	0.24	U		0.066	0.24	1.00000	ug/L	141749		02/04/05 0321	san
	2,4,6-TNT	0.38	U		0.12	0.38	1.00000	ug/L	141749		02/04/05 0321	san
	Tetryl	1.2	U		0.25	1.2	1.00000	ug/L	141749		02/04/05 0321	san
	2,4-Dinitrotoluene	0.54	U		0.18	0.54	1.00000	ug/L	141749		02/04/05 0321	san
	2,6-Dinitrotoluene	0.64	U		0.21	0.64	1.00000	ug/L	141749		02/04/05 0321	san
	2-Amino-4,6-Dinitrotoluene	0.54	U		0.18	0.54	1.00000	ug/L	141749		02/04/05 0321	san
	4-Amino-2,6-Dinitrotoluene	0.50	U		0.17	0.50	1.00000	ug/L	141749		02/04/05 0321	san
	2-Nitrotoluene	0.46	U		0.14	0.46	1.00000	ug/L	141749		02/04/05 0321	san
	4-Nitrotoluene	0.46	U		0.15	0.46	1.00000	ug/L	141749		02/04/05 0321	san
	3-Nitrotoluene	0.46	U		0.15	0.46	1.00000	ug/L	141749		02/04/05 0321	san

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231416

LABORATORY TEST RESULTS

Date:11/10/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 10/25/2004
Time Sampled.....: 14:55
Sample Matrix.....: Water

Laboratory Sample ID: 231416-3
Date Received.....: 10/27/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Vinyl chloride	1.0	U	*	0.080	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Chloroethane	1.0	U	*	0.080	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Acetone	5.5			1.8	10	1.00000	ug/L	133634		11/08/04 1202	lm
	Methylene chloride	2.1			0.35	1.5	1.00000	ug/L	133634		11/08/04 1202	lm
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	133634		11/08/04 1202	lm
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	133634		11/08/04 1202	lm
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	133634		11/08/04 1202	lm

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231416

LABORATORY TEST RESULTS

Date:11/10/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 10/25/2004
Time Sampled.....: 14:55
Sample Matrix.....: Water

Laboratory Sample ID: 231416-3
Date Received.....: 10/27/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	133634		11/08/04 1202	lm
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	133634		11/08/04 1202	lm
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	133634		11/08/04 1202	lm

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231465 Date:11/11/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 10/26/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231465-9
Date Received.....: 10/28/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	133786		11/09/04 1616	jdn
	Methylene chloride	1.7			0.35	1.5	1.00000	ug/L	133786		11/09/04 1616	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	133786		11/09/04 1616	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	133786		11/09/04 1616	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	133786		11/09/04 1616	jdn

* In Description = Dry Wgt.

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Job Number: 231465

LABORATORY TEST RESULTS

Date:11/11/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 10/26/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231465-9
Date Received.....: 10/28/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	133786		11/09/04 1616	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231493

LABORATORY TEST RESULTS

Date:11/11/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 10/26/2004
Time Sampled.....: 11:05
Sample Matrix.....: Water

Laboratory Sample ID: 231493-16
Date Received.....: 10/29/2004
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	133786		11/09/04 1659	jdn
	Methylene chloride	2.0	U		0.35	1.5	1.00000	ug/L	133786		11/09/04 1659	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	133786		11/09/04 1659	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	133786		11/09/04 1659	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	133786		11/09/04 1659	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231493

LABORATORY TEST RESULTS

Date:11/11/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 10/26/2004
Time Sampled.....: 11:05
Sample Matrix.....: Water

Laboratory Sample ID: 231493-16
Date Received.....: 10/29/2004
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	133786		11/09/04 1659	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231579 Date:11/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 10/28/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231579-21
Date Received.....: 11/02/2004
Time Received.....: 08:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134095		11/11/04 1623	jdn
	Methylene chloride	1.3	J		0.35	1.5	1.00000	ug/L	134095		11/11/04 1623	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134095		11/11/04 1623	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134095		11/11/04 1623	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134095		11/11/04 1623	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231579 Date:11/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 10/28/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231579-21
Date Received.....: 11/02/2004
Time Received.....: 08:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134095		11/11/04 1623	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231611 Date:11/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/01/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231611-29
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134095		11/11/04 1755	jdn
	Methylene chloride	1.6			0.35	1.5	1.00000	ug/L	134095		11/11/04 1755	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134095		11/11/04 1755	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134095		11/11/04 1755	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134095		11/11/04 1755	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611 Date:11/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/01/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231611-29
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134095		11/11/04 1755	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657 Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/02/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231657-22
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Acetone	5.1	J		1.8	10	1.00000	ug/L	134097		11/12/04 0056	jdn
	Methylene chloride	2.3			0.35	1.5	1.00000	ug/L	134097		11/12/04 0056	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134097		11/12/04 0056	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134097		11/12/04 0056	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/12/04 0056	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657 Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/02/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231657-22
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/12/04 0056	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231715

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/03/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231715-24
Date Received.....: 11/05/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,1-Dichloroethene	1.0	U	*	0.12	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134612		11/16/04 1745	jdn
	Methylene chloride	2.1			0.35	1.5	1.00000	ug/L	134612		11/16/04 1745	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134612		11/16/04 1745	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134612		11/16/04 1745	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134612		11/16/04 1745	jdn

* In Description = Dry Wgt.

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Job Number: 231715

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/03/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231715-24
Date Received.....: 11/05/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134612		11/16/04 1745	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231758 Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/04/2004
Time Sampled.....: 11:25
Sample Matrix.....: Water

Laboratory Sample ID: 231758-20
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Acetone	5.0	J		1.8	10	1.00000	ug/L	134095		11/11/04 1452	jdn
	Methylene chloride	1.3	J		0.35	1.5	1.00000	ug/L	134095		11/11/04 1452	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134095		11/11/04 1452	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134095		11/11/04 1452	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134095		11/11/04 1452	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231758 Date: 11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/04/2004
Time Sampled.....: 11:25
Sample Matrix.....: Water

Laboratory Sample ID: 231758-20
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FQ	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134095		11/11/04 1452	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231793

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/05/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231793-18
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Acetone	5.6	J		1.8	10	1.00000	ug/L	134097		11/12/04 0618	jdn
	Methylene chloride	2.4			0.35	1.5	1.00000	ug/L	134097		11/12/04 0618	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134097		11/12/04 0618	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134097		11/12/04 0618	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/12/04 0618	jdn

* In Description = Dry Wgt.

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Job Number: 231793

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/05/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231793-18
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/12/04 0618	jdn

* In Description = Dry Wgt.

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Job Number: 231833

LABORATORY TEST RESULTS

Date:11/20/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/08/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231833-10
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Acetone	10			1.8	10	1.00000	ug/L	134095		11/11/04 1429	jdn
	Methylene chloride	2.2	U		0.35	1.5	1.00000	ug/L	134095		11/11/04 1429	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134095		11/11/04 1429	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134095		11/11/04 1429	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134095		11/11/04 1429	jdn

* In Description = Dry Wgt.

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Job Number: 231833

LABORATORY TEST RESULTS

Date: 11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/08/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231833-10
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134095		11/11/04 1429	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877 Date:11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric ELKIS

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231877-2
Date Received.....: 11/11/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,1-Dichloroethene	1.0	U	*	0.12	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Acetone	5.3	J		1.8	10	1.00000	ug/L	134749		11/17/04 2004	jdn
	Methylene chloride	2.6			0.35	1.5	1.00000	ug/L	134749		11/17/04 2004	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134749		11/17/04 2004	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134749		11/17/04 2004	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134749		11/17/04 2004	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877

Date: 11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231877-2
Date Received.....: 11/11/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134749		11/17/04 2004	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/10/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231912-28
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,1-Dichloroethene	1.0	U	*	0.12	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Acetone	6.5	J		1.8	10	1.00000	ug/L	134749		11/17/04 2113	jdn
	Methylene chloride	1.7			0.35	1.5	1.00000	ug/L	134749		11/17/04 2113	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134749		11/17/04 2113	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134749		11/17/04 2113	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134749		11/17/04 2113	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/10/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 231912-28
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134749		11/17/04 2113	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232095 Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/16/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232095-14
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Acetone	8.0	J		1.8	10	1.00000	ug/L	135563		11/24/04 0316	jdn
	Methylene chloride	2.1			0.35	1.5	1.00000	ug/L	135563		11/24/04 0316	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135563		11/24/04 0316	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135563		11/24/04 0316	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135563		11/24/04 0316	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095 Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/16/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232095-14
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135563		11/24/04 0316	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232120 Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/16/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232120-12
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Chloroethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	135800		11/30/04 2228	jdn
	Methylene chloride	2.0	U		0.35	1.5	1.00000	ug/L	135800		11/30/04 2228	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135800		11/30/04 2228	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135800		11/30/04 2228	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135800		11/30/04 2228	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232120 Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/16/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232120-12
Date Received.....: 11/19/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135800		11/30/04 2228	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232168 Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/19/2004
Time Sampled.....: 09:35
Sample Matrix.....: Water

Laboratory Sample ID: 232168-4
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Chloroethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	135800		12/01/04 0350	jdn
	Methylene chloride	1.9			0.35	1.5	1.00000	ug/L	135800		12/01/04 0350	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135800		12/01/04 0350	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135800		12/01/04 0350	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0350	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135800		12/01/04 0350	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232168 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/19/2004
Time Sampled.....: 09:35
Sample Matrix.....: Water

Laboratory Sample ID: 232168-4
Date Received.....: 11/20/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135800		12/01/04 0350	jdh

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232200

Date:12/09/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/18/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232200-14
Date Received.....: 11/23/2004
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Chloroethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	135800		12/01/04 0413	jdn
	Methylene chloride	2.0			0.35	1.5	1.00000	ug/L	135800		12/01/04 0413	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135800		12/01/04 0413	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135800		12/01/04 0413	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135800		12/01/04 0413	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232200 Date: 12/09/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/18/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232200-14
Date Received.....: 11/23/2004
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135800		12/01/04 0413	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232251 Date:12/07/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Erik Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/23/2004
Time Sampled.....: 10:05
Sample Matrix.....: Water

Laboratory Sample ID: 232251-1
Date Received.....: 11/24/2004
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Chloroethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	135800		11/30/04 2313	jdn
	Methylene chloride	1.8			0.35	1.5	1.00000	ug/L	135800		11/30/04 2313	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135800		11/30/04 2313	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135800		11/30/04 2313	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135800		11/30/04 2313	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232251

Date:12/07/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/23/2004
Time Sampled.....: 10:05
Sample Matrix.....: Water

Laboratory Sample ID: 232251-1
Date Received.....: 11/24/2004
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135800		11/30/04 2313	jdn

* In Description = Dry Wgt.

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Job Number: 232296

LABORATORY TEST RESULTS

Date:12/13/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/29/2004
Time Sampled.....: 11:20
Sample Matrix.....: Water

Laboratory Sample ID: 232296-4
Date Received.....: 11/30/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	136228		12/03/04 1855	jdn
	Methylene chloride	2.7			0.35	1.5	1.00000	ug/L	136228		12/03/04 1855	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	136228		12/03/04 1855	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	4-Methyl-2-pentanone (NIBK)	10	U		0.65	10	1.00000	ug/L	136228		12/03/04 1855	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	136228		12/03/04 1855	jdn

* In Description = Dry Wgt.

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Job Number: 232296

LABORATORY TEST RESULTS

Date:12/13/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/29/2004
Time Sampled.....: 11:20
Sample Matrix.....: Water

Laboratory Sample ID: 232296-4
Date Received.....: 11/30/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	136228		12/03/04 1855	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232332 Date:12/14/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 KOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/30/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232332-5
Date Received.....: 12/01/2004
Time Received.....: 10:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	136228		12/03/04 1726	jdn
	Methylene chloride	2.1			0.35	1.5	1.00000	ug/L	136228		12/03/04 1726	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	136228		12/03/04 1726	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	136228		12/03/04 1726	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	136228		12/03/04 1726	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232332

Date:12/14/2004

CUSTOMER: MKN Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/30/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232332-5
Date Received.....: 12/01/2004
Time Received.....: 10:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	136228		12/03/04 1726	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232364 Date:12/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/29/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232364-8
Date Received.....: 12/02/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	136228		12/03/04 1213	jdn
	Methylene chloride	2.3			0.35	1.5	1.00000	ug/L	136228		12/03/04 1213	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	136228		12/03/04 1213	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	136228		12/03/04 1213	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	136228		12/03/04 1213	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232364 Date:12/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 11/29/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232364-8
Date Received.....: 12/02/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	136228		12/03/04 1213	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date:12/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 16 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/02/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232409-11
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
82608	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	137206		12/15/04 2004	jdn
	Methylene chloride	2.2			0.35	1.5	1.00000	ug/L	137206		12/15/04 2004	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137206		12/15/04 2004	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137206		12/15/04 2004	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137206		12/15/04 2004	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date:12/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/02/2004
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 232409-11
Date Received.....: 12/03/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137206		12/15/04 2004	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date:12/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/03/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232478-8
Date Received.....: 12/06/2004
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Acetone	6.2	J		1.8	10	1.00000	ug/L	137286		12/16/04 0114	jdn
	Methylene chloride	1.7			0.35	1.5	1.00000	ug/L	137286		12/16/04 0114	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137286		12/16/04 0114	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137286		12/16/04 0114	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137286		12/16/04 0114	jdn

* In Description = Dry Wgt.

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Job Number: 232478

LABORATORY TEST RESULTS

Date:12/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/03/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232478-8
Date Received.....: 12/06/2004
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137286		12/16/04 0114	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/06/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232497-12
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	137286		12/16/04 0502	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137286		12/16/04 0502	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137286		12/16/04 0502	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137286		12/16/04 0502	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137286		12/16/04 0502	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/06/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232497-12
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137286		12/16/04 0502	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232540

Date:12/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/07/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232540-10
Date Received.....: 12/08/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	137371		12/16/04 1741	jdn
	Methylene chloride	2.1			0.35	1.5	1.00000	ug/L	137371		12/16/04 1741	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137371		12/16/04 1741	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137371		12/16/04 1741	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137371		12/16/04 1741	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232540

Date:12/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/07/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232540-10
Date Received.....: 12/08/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137371		12/16/04 1741	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232603 Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/08/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-9
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Acetone	6.6	J		1.8	10	1.00000	ug/L	137373		12/16/04 2110	jdn
	Methylene chloride	1.9			0.35	1.5	1.00000	ug/L	137373		12/16/04 2110	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137373		12/16/04 2110	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137373		12/16/04 2110	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137373		12/16/04 2110	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232603 Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/08/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232603-9
Date Received.....: 12/09/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137373		12/16/04 2110	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232642

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/09/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232642-8
Date Received.....: 12/10/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	137371		12/16/04 2053	jdn
	Methylene chloride	1.9			0.35	1.5	1.00000	ug/L	137371		12/16/04 2053	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137371		12/16/04 2053	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137371		12/16/04 2053	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137371		12/16/04 2053	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232642

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/09/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232642-8
Date Received.....: 12/10/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137371		12/16/04 2053	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232687 Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/10/2004
Time Sampled.....: 09:15
Sample Matrix.....: Water

Laboratory Sample ID: 232687-5
Date Received.....: 12/11/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Acetone	5.5	J		1.8	10	1.00000	ug/L	137580		12/19/04 0212	ema
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137580		12/19/04 0212	ema
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137580		12/19/04 0212	ema
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137580		12/19/04 0212	ema
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137580		12/19/04 0212	ema

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232687

Date: 12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/10/2004
Time Sampled.....: 09:15
Sample Matrix.....: Water

Laboratory Sample ID: 232687-5
Date Received.....: 12/11/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137580		12/19/04 0212	ema
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137580		12/19/04 0212	ema
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137580		12/19/04 0212	ema

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232723 Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/13/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 232723-3
Date Received.....: 12/14/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Acetone	10	U		1.8	10	1.00000	ug/L	137580		12/19/04 0318	ema
	Methylene chloride	2.2			0.35	1.5	1.00000	ug/L	137580		12/19/04 0318	ema
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137580		12/19/04 0318	ema
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137580		12/19/04 0318	ema
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137580		12/19/04 0318	ema

* In Description = Dry Wgt.

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Job Number: 232723

LABORATORY TEST RESULTS

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/13/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 232723-3
Date Received.....: 12/14/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137580		12/19/04 0318	ema
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137580		12/19/04 0318	ema
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137580		12/19/04 0318	ema

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232789

Date:12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/14/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232789-10
Date Received.....: 12/15/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Acetone	6.5	J		1.8	10	1.00000	ug/L	137580		12/19/04 0552	ema
	Methylene chloride	2.3			0.35	1.5	1.00000	ug/L	137580		12/19/04 0552	ema
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137580		12/19/04 0552	ema
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137580		12/19/04 0552	ema
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137580		12/19/04 0552	ema

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232789

Date: 12/22/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/14/2004
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 232789-10
Date Received.....: 12/15/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137580		12/19/04 0552	ema
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137580		12/19/04 0552	ema
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137580		12/19/04 0552	ema

* In Description = Dry Wgt.

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Job Number: 232829

LABORATORY TEST RESULTS

Date:12/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/15/2004
Time Sampled.....: 08:50
Sample Matrix.....: Water

Laboratory Sample ID: 232829-5
Date Received.....: 12/16/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Acetone	5.8	J		1.8	10	1.00000	ug/L	138291		12/28/04 1345	jdn
	Methylene chloride	1.8			0.35	1.5	1.00000	ug/L	138291		12/28/04 1345	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	138291		12/28/04 1345	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	138291		12/28/04 1345	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	138291		12/28/04 1345	jdn

* In Description = Dry Wgt.

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Job Number: 232829

LABORATORY TEST RESULTS

Date:12/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/15/2004
Time Sampled.....: 08:50
Sample Matrix.....: Water

Laboratory Sample ID: 232829-5
Date Received.....: 12/16/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	138291		12/28/04 1345	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232876

Date: 12/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/16/2004
Time Sampled.....: 10:40
Sample Matrix.....: Water

Laboratory Sample ID: 232876-4
Date Received.....: 12/17/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Acetone	5.3	J		1.8	10	1.00000	ug/L	138291		12/28/04 1514	jdn
	Methylene chloride	2.2			0.35	1.5	1.00000	ug/L	138291		12/28/04 1514	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	138291		12/28/04 1514	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	138291		12/28/04 1514	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	138291		12/28/04 1514	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232876

Date:12/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/16/2004
Time Sampled.....: 10:40
Sample Matrix.....: Water

Laboratory Sample ID: 232876-4
Date Received.....: 12/17/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	138291		12/28/04 1514	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 232979

LABORATORY TEST RESULTS

Date:01/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/21/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232979-3
Date Received.....: 12/22/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Acetone	6.4	J		1.8	10	1.00000	ug/L	138291		12/28/04 1620	jdn
	Methylene chloride	1.9	U		0.35	1.5	1.00000	ug/L	138291		12/28/04 1620	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	138291		12/28/04 1620	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	138291		12/28/04 1620	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	138291		12/28/04 1620	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 232979

LABORATORY TEST RESULTS

Date:01/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/21/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232979-3
Date Received.....: 12/22/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	138291		12/28/04 1620	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233126

LABORATORY TEST RESULTS

Date:01/14/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/03/2005
Time Sampled.....: 10:00
Sample Matrix.....: Water

Laboratory Sample ID: 233126-3
Date Received.....: 01/04/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Acetone	8.8	J		1.8	10	1.00000	ug/L	139434		01/07/05 1719	jdn
	Methylene chloride	1.3	J		0.35	1.5	1.00000	ug/L	139434		01/07/05 1719	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	139434		01/07/05 1719	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	139434		01/07/05 1719	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	139434		01/07/05 1719	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233126

LABORATORY TEST RESULTS

Date:01/14/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/03/2005
Time Sampled.....: 10:00
Sample Matrix.....: Water

Laboratory Sample ID: 233126-3
Date Received.....: 01/04/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	139434		01/07/05 1719	jdn

* In Description = Dry Wgt.

TL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 233168

Date:01/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/04/2005
Time Sampled.....: 11:15
Sample Matrix.....: Water

Laboratory Sample ID: 233168-8
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	D	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Acetone	7.5	J		1.8	10	1.00000	ug/L	139434		01/07/05 1743	jdn
	Methylene chloride	1.4	J		0.35	1.5	1.00000	ug/L	139434		01/07/05 1743	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	139434		01/07/05 1743	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	139434		01/07/05 1743	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	139434		01/07/05 1743	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233168

Date:01/17/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/04/2005
Time Sampled.....: 11:15
Sample Matrix.....: Water

Laboratory Sample ID: 233168-8
Date Received.....: 01/05/2005
Time Received.....: 10:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	139434		01/07/05 1743	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233355 Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/10/2005
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 233355-3
Date Received.....: 01/11/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Acetone	10	U	*	1.8	10	1.00000	ug/L	139628		01/17/05 2302	jdn
	Methylene chloride	3.1			0.35	1.5	1.00000	ug/L	139628		01/17/05 2302	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	2-Butanone (MEK)	10	U	*	1.2	10	1.00000	ug/L	139628		01/17/05 2302	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	4-Methyl-2-pentanone (MIBK)	10	U	*	0.65	10	1.00000	ug/L	139628		01/17/05 2302	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	2-Hexanone	10	U	*	0.53	10	1.00000	ug/L	139628		01/17/05 2302	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233355

LABORATORY TEST RESULTS

Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/10/2005
Time Sampled.....: 09:20
Sample Matrix.....: Water

Laboratory Sample ID: 233355-3
Date Received.....: 01/11/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,2-Dibromoethane (EDB)	1.0	U	*	0.13	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	139628		01/17/05 2302	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233426

LABORATORY TEST RESULTS

Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-6
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Acetone	10	U	*	1.8	10	1.00000	ug/L	139628		01/17/05 2149	jdn
	Methylene chloride	3.5			0.35	1.5	1.00000	ug/L	139628		01/17/05 2149	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	2-Butanone (MEK)	10	U	*	1.2	10	1.00000	ug/L	139628		01/17/05 2149	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	4-Methyl-2-pentanone (MIBK)	10	U	*	0.65	10	1.00000	ug/L	139628		01/17/05 2149	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	2-Hexanone	10	U	*	0.53	10	1.00000	ug/L	139628		01/17/05 2149	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233426

LABORATORY TEST RESULTS

Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/12/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233426-6
Date Received.....: 01/13/2005
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,2-Dibromoethane (EDB)	1.0	U	*	0.13	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	139628		01/17/05 2149	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233502 Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-3
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	QT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Acetone	10	U	*	1.8	10	1.00000	ug/L	139628		01/18/05 0011	jdn
	Methylene chloride	3.1			0.35	1.5	1.00000	ug/L	139628		01/18/05 0011	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	2-Butanone (MEK)	10	U	*	1.2	10	1.00000	ug/L	139628		01/18/05 0011	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	4-Methyl-2-pentanone (MIBK)	10	U	*	0.65	10	1.00000	ug/L	139628		01/18/05 0011	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	2-Hexanone	10	U	*	0.53	10	1.00000	ug/L	139628		01/18/05 0011	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233502

Date:01/20/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/14/2005
Time Sampled.....: 07:30
Sample Matrix.....: Water

Laboratory Sample ID: 233502-3
Date Received.....: 01/15/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,2-Dibromoethane (EDB)	1.0	U	*	0.13	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	139628		01/18/05 0011	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233541

Date:02/01/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/17/2005
Time Sampled.....: 09:50
Sample Matrix.....: Water

Laboratory Sample ID: 233541-4
Date Received.....: 01/18/2005
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Acetone	10	U		1.8	10	1.00000	ug/L	140790		01/31/05 1535	jmp
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	140790		01/31/05 1535	jmp
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	140790		01/31/05 1535	jmp
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	140790		01/31/05 1535	jmp
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	140790		01/31/05 1535	jmp

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233541

Date:02/01/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/17/2005
Time Sampled.....: 09:50
Sample Matrix.....: Water

Laboratory Sample ID: 233541-4
Date Received.....: 01/18/2005
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	140790		01/31/05 1535	jmp

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233574

Date:02/02/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/18/2005
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 233574-4
Date Received.....: 01/19/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Acetone	10	U		1.8	10	1.00000	ug/L	140790		01/31/05 1707	jmp
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	140790		01/31/05 1707	jmp
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	140790		01/31/05 1707	jmp
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	140790		01/31/05 1707	jmp
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	140790		01/31/05 1707	jmp

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233574

LABORATORY TEST RESULTS

Date:02/02/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/18/2005
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 233574-4
Date Received.....: 01/19/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	140790		01/31/05 1707	jmp

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 233624

LABORATORY TEST RESULTS

Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/19/2005
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 233624-5
Date Received.....: 01/20/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Acetone	10	U		1.8	10	1.00000	ug/L	140790		01/31/05 1857	jmp
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	140790		01/31/05 1857	jmp
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	140790		01/31/05 1857	jmp
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	140790		01/31/05 1857	jmp
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	140790		01/31/05 1857	jmp

* In Description = Dry Wgt.

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Job Number: 233624

LABORATORY TEST RESULTS

Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/19/2005
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 233624-5
Date Received.....: 01/20/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	140790		01/31/05 1857	jmp

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233646 Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/20/2005
Time Sampled.....: 13:00
Sample Matrix.....: Water

Laboratory Sample ID: 233646-3
Date Received.....: 01/21/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Acetone	10	U		1.8	10	1.00000	ug/L	140908		02/02/05 0348	lm
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	140908		02/02/05 0348	lm
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	140908		02/02/05 0348	lm
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	140908		02/02/05 0348	lm
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	140908		02/02/05 0348	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233646

Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/20/2005
Time Sampled.....: 13:00
Sample Matrix.....: Water

Laboratory Sample ID: 233646-3
Date Received.....: 01/21/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	140908		02/02/05 0348	lm
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	140908		02/02/05 0348	lm
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	140908		02/02/05 0348	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685 Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-6
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Acetone	10	U		1.8	10	1.00000	ug/L	140908		02/02/05 0601	lm
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	140908		02/02/05 0601	lm
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	140908		02/02/05 0601	lm
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	140908		02/02/05 0601	lm
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	140908		02/02/05 0601	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233685

Date:02/03/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/21/2005
Time Sampled.....: 08:00
Sample Matrix.....: Water

Laboratory Sample ID: 233685-6
Date Received.....: 01/22/2005
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	140908		02/02/05 0601	lm
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	140908		02/02/05 0601	lm
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	140908		02/02/05 0601	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233716

Date:02/08/2005

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/24/2005
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 233716-3
Date Received.....: 01/25/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Acetone	10	U		1.8	10	1.00000	ug/L	140908		02/02/05 0707	lm
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	140908		02/02/05 0707	lm
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	140908		02/02/05 0707	lm
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	140908		02/02/05 0707	lm
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0707	lm
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	140908		02/02/05 0707	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date:02/08/2005

Job Number: 233716

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/24/2005
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 233716-3
Date Received.....: 01/25/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	140908		02/02/05 0707	tm
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	140908		02/02/05 0707	tm
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	140908		02/02/05 0707	tm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233742

Date:02/08/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/25/2005
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 233742-4
Date Received.....: 01/26/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Acetone	10	U		1.8	10	1.00000	ug/L	140908		02/02/05 0835	lm
	Methylene chloride	1.2	J		0.35	1.5	1.00000	ug/L	140908		02/02/05 0835	lm
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	140908		02/02/05 0835	lm
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	140908		02/02/05 0835	lm
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	140908		02/02/05 0835	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233742 Date:02/08/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 01/25/2005
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 233742-4
Date Received.....: 01/26/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	140908		02/02/05 0835	lm
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	140908		02/02/05 0835	lm
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	140908		02/02/05 0835	lm

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 233779

Date:02/10/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: Trip Blank
Date Sampled.....: 01/26/2005
Time Sampled.....: 10:00
Sample Matrix.....: Water

Laboratory Sample ID: 233779-3
Date Received.....: 01/27/2005
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	141541		02/08/05 1905	jdn
	Methylene chloride	1.1	J		0.35	1.5	1.00000	ug/L	141541		02/08/05 1905	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	141541		02/08/05 1905	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	141541		02/08/05 1905	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	141541		02/08/05 1905	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233779

Date:02/10/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: Trip Blank
Date Sampled.....: 01/26/2005
Time Sampled.....: 10:00
Sample Matrix.....: Water

Laboratory Sample ID: 233779-3
Date Received.....: 01/27/2005
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	141541		02/08/05 1905	jdn

* In Description = Dry Wgt.

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Job Number: 233967

LABORATORY TEST RESULTS

Date:02/10/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-4
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	141541		02/08/05 2034	jdn
	Methylene chloride	1.3	J		0.35	1.5	1.00000	ug/L	141541		02/08/05 2034	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	141541		02/08/05 2034	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	141541		02/08/05 2034	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	141541		02/08/05 2034	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 233967

Date:02/10/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: TRIP BLANK
Date Sampled.....: 02/02/2005
Time Sampled.....: 08:15
Sample Matrix.....: Water

Laboratory Sample ID: 233967-4
Date Received.....: 02/03/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	141541		02/08/05 2034	jdn

* In Description = Dry Wgt.

Quality Control Summary Report
RVAAP 14 Sites
September 2004 through February 2005
Ravenna Army Ammunition Plant
Ravenna, Ohio

Prepared for

Department of the Army
U.S. Army Corps of Engineers
Louisville District
600 Martin Luther King Jr. Place
Louisville, Kentucky 40201-0059

Prepared by

Laboratory Data Consultants, Inc.
7750 El Camino Real
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Carlsbad, CA 92009

May, 2005

TABLE OF CONTENTS

LIST OF TABLES

LIST OF ATTACHMENTS

LIST OF ACRONYMS AND ABBREVIATIONS

ADR	Automated Data Review
°C	Degrees Centigrade
CCC	Calibration Check Compounds
CDQMP	Chemical Data Quality Management Program
CLPNFG	Contract Laboratory Program National Functional Guidelines
%D	Percent Difference
DQI	Data Quality Indicators
ELAP	Environmental Laboratory Accreditation Program
LCS	Laboratory Control Sample
LDC	Laboratory Data Consultants
MDL	Method Detection Limit
mg/L	Milligrams per liter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QCSR	Quality Control Summary Report
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
SAP	Sampling and Analysis Plan
SDG	Sample Delivery Group
SPCC	System Performance Check Compounds
TR	Result detected between the MDL and PQL
ug/L	Micrograms per liter
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound
TDS	Total Dissolved Solids

1.0 PROJECT SCOPE

This Quality Control Summary Report (QCSR) presents level III and level IV data validation results for samples collected during the September 2004 through February 2005 sampling period. Data review was performed in accordance with the procedures specified in "Sampling and Analysis Plan (SAP) for Environmental Investigation at the Ravenna Army Ammunition Plant, Ravenna, Ohio, Louisville Chemistry Guidelines (LCG) Version 5, June 2002, USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Organic Data Review (October 1999), USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Inorganic Data Review (February, 1994). The data validation task was performed by Laboratory Data Consultants (LDC), an independent subcontractor to USACE Louisville District.

Analytical results from the sampling period were subjected to level III review, which comprises an evaluation of quality control (QC) summary results for sample holding times, initial and continuing calibrations, surrogates, matrix spike/matrix spike duplicates (MS/MSD), laboratory control samples (LCS), method blanks, equipment blanks, and field duplicate samples.

To confirm sample quantitation and identification, a level IV evaluation of the QC summary forms as well as the raw data was performed on approximately 10 percent of the sample results for volatile organic compounds (VOCs) by EPA Test Method 8260B, semivolatile organic compounds (SVOCs) by EPS Test Method 8270C, organochlorine pesticides by EPA Test Method 8081A, polychlorinated biphenyls by EPA Test Method 8082, explosives by EPA Test Method 8330, nitroguanidine by EPA Test Method 8330 modified, metals by EPA Test Method 6010B/7000 series, nitrate as N by EPA Test Method 353.2 and nitrocellulose by EPA Test Method 353.2 modified. The sample identification and level of review performed on each sample is presented in Table 1. The numbers of primary and field QC samples collected are presented in Table 2. Detected target analytes are summarized in Table 3. Overall qualified results are presented in Table 4.

2.0 PROJECT DESCRIPTION

A total of 515 field samples were collected and analyzed for VOCs by EPA Test Method 8260B, SVOCs by EPA Test Method 8270C, DROs by EPA Test Method 8015, GROs by EPA Test Method 8015, organochlorine pesticides by EPA Test Method 8081A, PCBs by EPA Test Method 8082, Explosives by EPA Test Method 8330, nitroguanidine by EPA Method 8330 modified, metals by EPA Test Method 6010B/7000 series, nitrate-N by EPA Test Method 353.2, nitrocellulose by EPA Test Method 353.2 modified, and cyanide by EPA Test Method 9014. Not all samples were analyzed for all parameters. Additionally, 159 field QC samples (trip blanks, equipment blanks and field duplicates) were collected and analyzed as part of the sampling program. Copies of the chain of custody records with sample collection information are presented as Attachment 1.

3.0 SAMPLING PROCEDURES

All sampling procedures were conducted in accordance with project plans and as specified in the SAP. No deviations were required by the field technician during sampling events.

4.0 QUALITY CONTROL ACTIVITIES

Sample analysis was performed by Severn Trent Laboratory in Chicago, Illinois and Severn

Trent Laboratory in Sacramento, California. Method detection limits (MDLs) were reviewed and were determined to be acceptable.

Level III review was performed on the volatile organic methods using the USACE Louisville District's Automated Data Review (ADR) software program. Flagging conventions specified in the SAP were incorporated with the program's reference library to assess compliance with project requirements. ADR Library Validation Criteria files are provided as Attachment 2.

The ADR program was used as an electronic validation tool for the following QC checks:

- Holding Times
- Method Blank Contamination
- Surrogates
- Matrix Spike/Matrix Spike Duplicates
- Laboratory Control Samples
- Equipment blank Contamination
- Field Duplicates

Organic and inorganic calibration data were not validated for the level III review due to the laboratory's inability to deliver electronic calibration files. Method detection limit (MDL) studies were reviewed manually for the level IV review, and were found to be acceptable for this activity.

For the sampling period, level IV review was performed on 9.8 percent of the VOC results by EPA Test Method 8260B, 8.9 percent of the SVOC results by EPA Test Method 8270C, 10.5 percent of the pesticides results by EPA Test Method 8081 and PCB results by EPA Test Method 8082, 10.7 percent of the explosive results by EPA Test Method 8330 and metals by EPA Test Methods 6010B/7000. Thirteen percent of the nitroguanidine results by EPA Test Method 8330 modified, nitroglycerine results by EPA Test Method 8332, and nitrocellulose results by EPA Method 353.2 modified. The manual validation incorporated QC criteria from the SAP and Louisville LCG. Where specific guidance was not available, the data was evaluated in a conservative manner consistent with industry standards using professional experience.

Field QC samples (trip blank, equipment blanks, and field duplicates) were collected at the required frequency and were considered acceptable as described in Section 4.2. The frequency of these field QC samples is summarized in Table 2.

4.1 Laboratory Quality Control

4.1.1 Volatile Organic Compounds (EPA Test Method 8260B)

The following sections describe the analytical elements that were evaluated for VOCs by EPA Test Method 8260B.

4.1.1.1 Sample Preservation and Holding Time

Samples were properly stored in glass containers with Teflon® septum cap without bubbles or headspace. Samples were preserved with HCL at a pH of less than 2 and stored at 4±2 °C.

All volatile samples met the 14 day holding time criteria for soil, sediment, and preserved water samples.

4.1.1.2 Instrument Calibration

Initial and continuing calibrations were performed at the required frequencies. Initial calibration percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds.

Continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the criteria of less than or equal to 30.0%, all initial calibration (ICV) percent differences (%D) were less than or equal to 20.0%, and the method reporting limit (MRL) standard percent recoveries (%R) were within the QC limits of 70-130% with the exceptions listed below. The level 3 review calibration results are presented in Attachment 4.

- Continuing calibration %D exceeded acceptance criteria for methylene chloride and bromomethane. Two methylene chloride and one bromomethane results were qualified as estimated (J) for detects and (R) for non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- Initial calibration verification %R exceeded acceptance criteria for carbon disulfide and 2-butanone. Nineteen carbon disulfide and one 2-butanone results were qualified as estimated (J) for detects and (R) for non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- Initial calibration verification %R exceeded acceptance criteria for chloromethane, acetone, 2-hexanone, vinyl chloride, bromomethane, and chloroethane. Twenty chloromethane, six acetone, two 2-hexanone, twelve vinyl chloride, thirteen bromomethane, and seventeen chloroethane results were qualified as estimated (J) for detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- MRL standard %R exceeded acceptance criteria for chloromethane, acetone, 2-butanone, vinyl chloride, 2-hexanone, bromomethane, 4-methyl-2-pentanone, bromoform, and carbon disulfide. Two chloromethane, twelve acetone, fifteen 2-butanone, three vinyl chloride, two 2-hexanone, one bromomethane, one 4-methyl-2-pentanone, one bromoform, and one carbon disulfide result were qualified as estimated (J) for detects and (UJ) non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- MRL standard %R exceeded acceptance criteria for acetone, chloroethane, 2-butanone, methylene chloride, 2-hexanone, bromomethane, chloroform, bromoform, 1,1,1-trichloroethane, and 1,1,2-trichloroethane. Four acetone, three chloroethane, five 2-butanone, four methylene chloride, eleven 2-hexanone, five bromomethane, three chloroform, three bromoform, three 1,1,1-trichloroethane, and eleven 1,1,2-trichloroethane results were qualified as estimated (J) for detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method criteria of 0.10 for chloromethane, 1,1-dichloroethane, and bromoform and 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane. The 0.05 RRF acceptance criteria were met for all compounds with the exceptions listed below.

- Initial calibration RRF exceeded acceptance criteria for acetone. One acetone result was qualified as estimated (J) for detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

4.1.1.3 Blanks

Method blanks were performed at the required frequencies. No volatile contaminants were found in the method blanks.

4.1.1.4 Surrogates and Internal Standards

Surrogates and internal standards were added to all samples and blanks as required. Percent recoveries were within the acceptance limits listed in the SAP with the exception of internal standard 1,4-dichlorobenzene-d4, for samples TRIP BLANK(231877) and LL7sw-011-SW in SDG 231877, TRIP BLANK(231912) in SDG 231912, and ASYsd-010-SD in SDG 232603. All results were qualified as rejected (R) in these samples. Internal standard results are presented as Attachment 6.

4.1.1.5 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20 samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits with the exceptions listed below.

- One MS/MSDs exceeded percent recovery and relative percent differences for 1,1,1,-trichloroethane, 1,1-dichloroethane, 1-2-dichloroethene (total), 2-butanone, acetone, chloroform, dibromochloromethane, two for 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, benzene, bromodichloromethane, bromoform, chloromethane, toluene, trochloroethene, three for 1,2-dibromoethane, bromochloromethane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, five for ethylbenzene, m&p xylenes, o-xylene, styrene, total xylenes, four for carbon tetrachloride, chlorobenzene, six for carbon disulfide, chloroethane, vinyl chloride, and twenty-six for bromomethane. One 1,1,1,-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,2-dichloroethene(total), 2-butanone, acetone, bromodichloromethane, bromoform, chloroform, dibromochloromethane, two for 1,2-dichloroethane, benzene, bromochloromethane, bromomethane, chloroethane, cis-1,3-dichloropropene, tetrachloroethene, toluene, trans-1,2-dichloroethene, trans-1,3-dichloropropene, trichloroethene, vinyl chloride, three for 1,1-dichloroethane, carbon tetrachloride, chlorobenzene, ethylbenzene, m&p-xylenes, o-xylene, styrene, total xylenes, and five carbon disulfide results were qualified as estimated (J) for detects and (UJ) for non-detects due to MS/MSD exceedances. MS/MSD results are presented as Attachment 7.

4.1.1.6 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits with the exceptions listed below.

- One LCS/LCSD result exceeded percent recovery and relative percent differences for 1,2-dibromoethane, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and tetrachloroethene, two for bromomethane and trans-1,2-dichloroethene, three for

acetone and chloromethane, four for 1,1-dichloroethene, eight for carbon disulfide, and six for vinyl chloride. One chloroethane, chloromethane, two acetone, and tetrachloroethene, four trans-1,2-dichloroethene, seven vinyl chloride, nine 1,1-dichloroethene, and forty-two carbon disulfide, results were qualified as estimated (J) for detects and estimated (UJ) for non-detects and 4 carbon disulfide results were qualified as (R) due to low percent recoveries and high relative percent differences. LCS/LCSD results are presented as Attachment 7.

4.1.1.7 Target Compound Identification

Chromatograms and mass spectra from the raw data were evaluated for the level IV sample results. Target compound identifications were acceptable.

4.1.1.8 Analytical Sensitivity

The raw data was evaluated for instrument sensitivity for the level IV sample results. The instrument sensitivity was determined to be technically acceptable. All laboratory reporting limits met the specified requirements described in the SAP.

4.1.2 Semivolatile Organic Compounds (EPA Test Method 8270C)

The following sections describe the analytical elements that were evaluated for SVOCs by EPA Test Method 8270C.

4.1.2.1 Sample Preservation and Holding Time

Samples were properly stored in amber containers and stored at 4±2 °C.

All semivolatile samples met the 7 day extraction holding time for waters, the 14 day extraction holding time for soil and sediments, and the 40 day analysis holding time criteria for soil, sediment, and preserved water samples with the exceptions listed below.

- Sample ASYss-015M-SO in SDG 231793, L10sw-020-SW in SDG 232251, and LL8sd-001M-SD in SDG 231832 results were qualified as (J) for detects and (UJ) non-detects. The holding time results are presented as Attachment 3.

4.1.2.2 Instrument Calibration

Initial and continuing calibrations were performed at the required frequencies. Initial calibration percent relative standard deviations (%RSD) were less than or equal to 15% for each individual compound and less than or equal to 30% for calibration check compounds with the exceptions listed below. The level 3 review calibration results are presented in Attachment 4.

- Initial calibration verification %RSD exceeded acceptance criteria for 2,4-dinitrotoluene, benzo(k)fluoranthene, benzoic acid, 2-chloronaphthalene, 4-chlorophenyl-phenyl ether, 4-bromophenyl-phenyl ether, hexachlorobenzene, butylbenzylphthalate, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and dibenzo(a,h)anthracene. Ten benzo(k)fluoranthene, twelve 2,4-dinitrotoluene, benzoic acid, 2-chloronaphthalene, 4-chlorophenyl-phenyl ether, 4-bromophenyl-phenyl ether, hexachlorobenzene, butylbenzylphthalate, thirteen dibenzo(a,h)anthracene, and fourteen chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene results were qualified as (J) for detects and

(UJ) non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- Initial calibration verification %RSD exceeded acceptance criteria for indeno(1,2,3-cd)pyrene. Twelve indeno(1,2,3-cd)pyrene results were qualified as (J) for detects and (R) non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

Continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the criteria of less than or equal to 30.0%, all initial calibration (ICV) percent differences (%D) were less than or equal to 20.0%, and the method reporting limit (MRL) standard percent recoveries (%R) were within the QC limits of 70-130% with the exceptions listed below.

- Continuing calibration %D exceeded acceptance criteria for benzoic acid. One benzoic acid result was qualified as (J) for detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- Initial calibration verification %R exceeded acceptance criteria for phenol and 3-nitroaniline. Twelve phenol and 3-nitroaniline results were qualified as (J) for detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- Initial calibration verification %R exceeded acceptance criteria for 4-chloroaniline, 3-nitroaniline, and 3,3'-dichlorobenzidine. Thirteen 4-chloroaniline, 3-nitroaniline, and 3,3'-dichlorobenzidine results were qualified as (J) for detects and (UJ) non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- Initial calibration verification %R exceeded acceptance criteria for 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and hexachlorocyclopentadiene. Eleven 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and three hexachlorocyclopentadiene results were qualified as (J) for detects and (R) non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- MRL standard %R exceeded acceptance criteria for di-n-octylphthalate, 3-nitroaniline, 4-nitroaniline, bis(2-chloroethoxy)methane, 2-nitroaniline, 2,4-dinitrophenol, 4-bromophenyl-phenylether, and benzo(k)fluoranthene. Nine 3-nitroaniline, 4-nitroaniline, eleven di-n-octylphthalate, twelve bis(2-chloroethoxy)methane, 2-nitroaniline, 2,4-dinitrophenol, 4-bromophenyl-phenylether, and fourteen benzo(k)fluoranthene results were qualified as (J) for detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- MRL standard %R exceeded acceptance criteria for benzoic acid, 2,4-dinitrophenol, hexachloroethane, 4,6-dinitro-2-methylphenol, pentachlorophenol, hexachlorocyclopentdiene, benzyl alcohol, and indeno(1,2,3-cd)pyrene. One benzyl alcohol, three hexachloroethane, eleven 2,4-dinitrophenol, indeno(1,2,3-cd)pyrene, twelve 4,6-dinitro-2-methylphenol, and twenty-two benzoic acid, pentachlorophenol, hexachlorocyclopentdiene result were qualified as (J) for detects and (UJ) non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

Average RRF for all semivolatile target compounds and SPCCs were within method criteria of 0.05.

4.1.2.3 Blanks

Method blanks were performed at the required frequencies. One method blank contained low levels of bis(2-ethylhexyl) phthalate (38.293 ug/L). The sample concentrations were not detected in the associated field samples. The method blank results are presented as Attachment 5.

4.1.2.4 Surrogates and Internal Standards

Surrogates and internal standards were added to all samples and blanks as required. Percent recoveries were within the acceptance limits listed in the SAP.

4.1.2.5 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20 samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits with the exceptions listed below.

- One MS/MSDs exceeded percent recovery and relative percent differences for 2-chlorophenol, 4-nitroaniline, 4-nitrophenol, benzo(a)anthracene, benzo(a)pyrene, chrysene, di-n-octyl phthalate, two for 2,4-dinitrophenol, 2-nitroaniline, 4,6-dinitro-2-methylphenol, three for benzo(a)fluoranthene, bis(2-ethylhexyl)phthalate phenol, four for 3-nitroaniline, five for pentachlorophenol, six for 4-chloroaniline, seven for benzoic acid, ten for 3,3'-dichlorobenzidine, and twenty-six for hexachlorocyclopentadiene. One 2,4-dinitrophenol, 2-chlorophenol, 4,6-dinitro-2-methylphenol, 4-nitroaniline, 4-nitrophenol, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, di-n-octyl phthalate, benzo(a)pyrene, chrysene, two for 2-nitroaniline, 3-nitroaniline, hexachloroethane, pentachlorophenol, phenol, bis(2-ethylhexyl)phthalate, three for 4-chloroaniline, five for benzoic acid, six for 3,3'dichlorobenzidine, fourteen for hexachlorocyclopentadiene results were qualified as estimated (J) for detects and estimated (UJ) for non-detects due to MS/MSD exceedances. MS/MSD results are presented as Attachment 7.

4.1.2.6 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits with the exceptions listed below.

- One LCS/LCSD result exceeded percent recovery and relative percent differences for 2,2-oxybis(1-chloropropane), 2-nitroaniline, 4-nitroaniline, bis(2-chloroethyl)ether, bis(2-ethylhexyl) phthalate, dibenzo(a,h)anthracene, hexachloroethane, n-nitrosodiphenylamine, two for 2-chloronaphthalene, di-n-octylphthalate, eight for 2,4-dinitrophenol, thirteen for benzoic acid, and twenty-six for hexachlorocyclopentadiene. One benzoic acid, bis(2-chloroethyl)ether, bis(2-ethylhexyl) phthalate, two 2-nitroaniline, three 4,6-dinitro-2-methylphenol, 4-chloroaniline, hexachlorocyclopentadiene, eight 2,2-oxybis(1-chloropropane), hexachloroethane, ten n-nitrosodiphenylamine, twelve 4-nitroaniline, dibenzo(a,h)anthracene, thirteen 2,4-dinitrophenol, and twenty-one di-n-octyl phthalate, results were qualified as estimated (J) for detects and estimated (UJ) for non-

detects and ten 4,6-dinitro-2-methylphenol, thirty-six 2,4-dinitrophenol, ninety-six benzoic acid, and one hundred thirteen hexachlorocyclopentadiene results were qualified as rejected (R) due to low percent recoveries. LCS/LCSD results are presented as Attachment 7.

4.1.2.7 Target Compound Identification

Chromatograms and mass spectra from the raw data were evaluated for the level IV sample results. Target compound identifications were acceptable.

4.1.2.8 Analytical Sensitivity

The raw data was evaluated for instrument sensitivity for the level IV sample results. The instrument sensitivity was determined to be technically acceptable. All laboratory reporting limits met the specified requirements described in the SAP.

4.1.3 Chlorinated Pesticide Compounds (EPA Test Method 8081A)

The following sections describe the analytical elements that were evaluated for chlorinated pesticides by EPA Test Method 8081A.

4.1.3.1 Sample Preservation and Holding Time

Samples were properly stored in amber containers and stored at 4±2 °C.

All chlorinated pesticide samples met the 7 day extraction holding time for waters, the 14 day extraction holding time for soil and sediments, and the 40 day analysis holding time criteria for soil, sediment, and preserved water samples with the exceptions listed below.

- Sample L10sd-004-SD in SDG 232789 for toxaphene results were qualified as (J) for detects and (UJ) non-detects. The holding time results are presented as Attachment 3.

4.1.3.2 Instrument Calibration

Initial and continuing calibrations were performed at the required frequencies. Initial calibration percent relative standard deviations (%RSD) were less than or equal to 30%.

All initial and continuing calibration factors were within validation criteria of 30%D for individual compounds and average 15%D for all compounds, the performance evaluation mix (PEM) was within 15%D, and the method reporting limit (MRL) standard percent recoveries (%R) were within the QC limits of 70-130% with the exceptions listed below. The level 3 review calibration results are presented in Attachment 4.

- PEM %D exceeded acceptance criteria for endrin. Fifteen endrin results were qualified as (J) for detects and (R) non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

- MRL standard %R exceeded acceptance criteria for endrin. Four endrin results were qualified as (J) for detects and (R) non-detects due to calibration exceedances. The calibration results are presented in the Data Validation Report.

4.1.3.3 Blanks

Method blanks were performed at the required frequencies. No chlorinated pesticide contaminants were found in the method blanks.

4.1.3.4 Surrogates

Surrogates were added to all samples and blanks as required. Percent recoveries were within the acceptance limits listed in the SAP with the exception of tetrachloro-m-xylene for samples LL8sw-014-SW, L12mw-189-GW, L10sw-006-SW and decachlorobiphenyl for LL8mw-005-ER. All results were qualified as estimated (J) for detects and (UJ) non-detects for these samples. Surrogate results are presented as Attachment 6.

4.1.3.5 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20 samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits with the exceptions listed below.

- One MS/MSD result exceeded percent recovery and relative percent differences for 4,4'-DDD, 4,4'-DDT, endosulfan sulfate, gamma-chlordane, two for 4,4'-DDE, 4,4'-DDT, aldrin, , alpha-BHC, alpha-chlordane, beta-BHC, delta-BHD, dieldrin, endosulfan I, endosulfan II, endrin, heptachlor, heptachlor epoxide, methoxychlor, three for gamma-BHC, and four for endrin aldehyde, endrin ketone. One 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, alpha-BHC, alpha-chlordane, delta-BHC, dieldrin, endosulfan I, endosulfan II, endosulfate, gamma-chlordane, heptachlor, heptachlor epoxide, two for beta-BHC, endrin, endrin ketone, gamma-BHC, methoxychlor, and three for endrin aldehyde results were qualified as estimated (J) for detects and estimated (UJ) for non-detects due to MS/MSD exceedances. MS/MSD results are presented as Attachment 7.

4.1.3.6 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits with the exceptions listed below.

- One LCS/LCSD result exceeded percent recovery and relative percent differences for 4,4'-DDT, alpha-BHC, alpha-chlordane, beta-BHC, delta-BHC, endosulfan II, gamma-chlordane, and heptachlor epoxide, two for aldrin, endrin, and methoxychlor, three for endrin ketone, four for heptachlor, and five for endosulfan I. One 4,4'-DDT and endosulfan II, five aldrin, seven endosulfan I, eleven endrin, and fourteen heptachlor results were qualified as estimated (J) for detects and estimated (UJ) for non-detects due to low percent recoveries and high relative percent differences. LCS/LCSD results are presented as Attachment 7.

4.1.3.7 Target Compound Identification

Chromatograms and mass spectra from the raw data were evaluated for the level IV sample results. Target compound identifications were acceptable.

4.1.3.8 Analytical Sensitivity

The raw data was evaluated for instrument sensitivity for the level IV sample results. The instrument sensitivity was determined to be technically acceptable. All laboratory reporting limits met the specified requirements described in the SAP.

4.1.4 Polychlorinated Biphenols (EPA Test Method 8082)

The following sections describe the analytical elements that were evaluated for polychlorinated biphenyls (PCBs) by EPA Test Method 8082.

4.1.4.1 Sample Preservation and Holding Time

Samples were properly stored in amber containers and stored at 4±2 °C.

All chlorinated pesticide samples met the 7 day extraction holding time for waters, the 14 day extraction holding time for soil and sediments, and the 40 day analysis holding time criteria for soil, sediment, and preserved water samples.

4.1.4.2 Instrument Calibration

Initial and continuing calibrations were performed at the required frequencies. Initial calibration percent relative standard deviations (%RSD) were less than or equal to 30%.

All initial and continuing calibration factors were within validation criteria of 30%D for individual compounds and average 15%D for all compounds, and the method reporting limit (MRL) standard percent recoveries (%R) were within the QC limits of 70-130%.

4.1.4.3 Blanks

Method blanks were performed at the required frequencies. No PCB contaminants were found in the method blanks.

4.1.4.4 Surrogates

Surrogates were added to all samples and blanks as required. Percent recoveries were within the acceptance limits listed in the SAP with the exception of tetrachloro-m-xylene and decachlorobiphenyl for sample ASYsd-010-SD, decachlorobiphenyl for samples CBLsw-003-SW, WSAss-004M-SO, LL8mw-005-ER, and tetrachloro-m-xylene for samples LL8sw-015-SW and L12mw-189-GW. All results were qualified as (J) for detects and (UJ) non-detects for these samples. Surrogate results are presented as Attachment 6.

4.1.4.5 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20 samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits.

4.1.4.6 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch

as described in the SAP. Percent recoveries were within the acceptance limits.

4.1.4.7 Target Compound Identification

Chromatograms and mass spectra from the raw data were evaluated for the level IV sample results. Target compound identifications were acceptable.

4.1.4.8 Analytical Sensitivity

The raw data was evaluated for instrument sensitivity for the level IV sample results. The instrument sensitivity was determined to be technically acceptable. All laboratory reporting limits met the specified requirements described in the SAP.

4.1.5 Explosives (EPA Test Method 8330, 8330 modified, and 8332)

The following sections describe the analytical elements that were evaluated for explosives by EPA Test Method 8330, 8330 modified, and 8332.

4.1.5.1 Sample Preservation and Holding Time

Samples were properly stored in amber containers and stored at 4±2 °C.

All explosive samples met the 7 day extraction holding time for waters, the 14 day extraction holding time for soil and sediments, and the 40 day analysis holding time criteria for soil, sediment, and preserved water samples.

4.1.5.2 Instrument Calibration

Initial and continuing calibrations were performed at the required frequencies. Initial calibration percent relative standard deviations (%RSD) were less than or equal to 20%.

All initial and continuing calibration factors were within validation criteria of 30%D for individual compounds and average 25%D for all compounds, and the method reporting limit (MRL) standard percent recoveries (%R) were within the QC limits of 70-130%.

4.1.5.3 Blanks

Method blanks were performed at the required frequencies. No explosive contaminants were found in the method blanks.

4.1.5.4 Surrogates

Surrogates were added to all samples and blanks as required. Percent recoveries were within the acceptance limits listed in the SAP with the exception of 1,2-dinitrobenzene for samples CBLsw-004-SW and L12mw-154-GW. All results for sample L12mw-154-GW were qualified as (J) for detects and (UJ) non-detects for these samples. Surrogate results are presented as Attachment 6.

4.1.5.5 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20

samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits with exceptions listed below.

- One MS/MSD result exceeded percent recovery and relative percent differences for 2,4,6-TNT, 3-nitrotoluene, and tetryl, two for 2-nitrotoluene, 6 for 2-amino-4,6-dinitrotoluene, and three for nitroglycerine. One tetryl and 3-nitrotoluene, 2-amino-4,6-dinitrotoluene, and three nitroglycerine results were qualified as estimated (J) for detects and estimated (UJ) for non-detects due to MS/MSD exceedances. MS/MSD results are presented as Attachment 7.

4.1.5.6 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits with the exceptions listed below.

- One LCS/LCSD result exceeded percent recovery and relative percent differences for nitroguanidine and nitroglycerine. Nine nitroglycerine results were qualified as estimated (J) for detects and estimated (UJ) for non-detects due to LCS/LCSD exceedances. . LCS/LCSD results are presented as Attachment 7.

4.1.5.7 Target Compound Identification

Chromatograms and mass spectra from the raw data were evaluated for the level IV sample results. Target compound identifications were acceptable.

4.1.5.8 Analytical Sensitivity

The raw data was evaluated for instrument sensitivity for the level IV sample results. The instrument sensitivity was determined to be technically acceptable. All laboratory reporting limits met the specified requirements described in the SAP.

4.1.6 Diesel Range Organics (EPA Test Method 8015)

The following sections describe the analytical elements that were evaluated for diesel range organics (DRO) by EPA Test Method 8015.

4.1.6.1 Sample Preservation and Holding Time

Samples were properly stored in amber containers and stored at 4±2 °C.

All DRO samples met the 7 day extraction holding time for waters, the 14 day extraction holding time for soil and sediments, and the 40 day analysis holding time criteria for soil, sediment, and preserved water samples.

4.1.6.2 Instrument Calibration

The calibration data was not evaluated for level III data review.

4.1.6.3 Blanks

Method blanks were performed at the required frequencies. No DRO contaminants were found in the method blanks.

4.1.6.4 Surrogates

Surrogates were added to all samples and blanks as required. Percent recoveries were within the acceptance limits listed in the SAP.

4.1.6.5 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20 samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits.

4.1.6.6 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits.

4.1.6.7 Target Compound Identification

Chromatograms and mass spectra were not evaluated for level III data review.

4.1.6.8 Analytical Sensitivity

The raw data was not evaluated for level III data review.

4.1.7 Gasoline Range Organics (EPA Test Method 8015)

The following sections describe the analytical elements that were evaluated for gasoline range organics (GRO) by EPA Test Method 8015.

4.1.7.1 Sample Preservation and Holding Time

Samples were properly stored in amber containers and stored at 4±2 °C.

All GRO samples met the 7 day extraction holding time for waters, the 14 day extraction holding time for soil and sediments, and the 40 day analysis holding time criteria for soil, sediment, and preserved water samples.

4.1.7.2 Instrument Calibration

The calibration data was not evaluated for level III data review.

4.1.7.3 Blanks

Method blanks were performed at the required frequencies. No GRO contaminants were found in the method blanks.

4.1.7.4 Surrogates

Surrogates were added to all samples and blanks as required. Percent recoveries were within the acceptance limits listed in the SAP.

4.1.7.5 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20 samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits.

4.1.7.6 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits.

4.1.7.7 Target Compound Identification

Chromatograms and mass spectra were not evaluated for level III data review.

4.1.7.8 Analytical Sensitivity

The raw data was not evaluated for level III data review.

4.1.8 Metals (EPA Test Method 6010B/7000 series)

The following sections describe the analytical elements that were evaluated for Metals by EPA Test Method 6010B and 7000 series.

4.1.8.1 Sample Preservation and Holding Time

Samples were preserved to a pH of < 2 with HNO3 for water samples and properly stored in polypropylene containers. All samples were stored at 4±2 C.

All metals met the 180 day and mercury the 28 day holding time criteria for water, soil, and sediment samples.

4.1.8.2 Instrument Calibration

Initial and continuing calibrations were performed at the required frequencies.
All initial and continuing calibration factors were within acceptance limits of ≥ 0.995 for the correlation coefficient (r) and 90-110 percent recovery (%R) for all analytes.

4.1.8.3 Blanks

Method blanks were performed at the required frequencies. Two method blanks contained low levels of aluminum, cadmium, calcium, cobalt, lead, mercury, nickel, potassium, silver, sodium, vanadium, and zinc. Associated samples were qualified as non-detect (U) due to method blank detections. The method blank results are presented as Attachment 5.

4.1.8.4 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20 samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits with the exceptions listed below.

- One MS/MSD result exceeded percent recovery for barium, chromium, cobalt, nickel, silver, and sodium, two for aluminum, copper, iron, selenium, and thallium, three for arsenic, cadmium, lead, and manganese, four for zinc, ten for calcium, twelve for magnesium, twenty-three for potassium, thirty antimony. One barium, chromium, cobalt, copper, and nickel, two aluminum, iron, selenium, thallium, and manganese, three arsenic, cadmium, and lead, four zinc, ten calcium, eight antimony, twelve magnesium, and twenty-two potassium results were qualified as estimated (J) for detects and estimated (UJ) for non-detects and twenty-one antimony results were qualified as rejected (R) due to MS/MSD exceedances. MS/MSD results are presented as Attachment 7.

4.1.8.5 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits.

4.1.8.6 Laboratory Duplicate Samples

Laboratory duplicate samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits.

4.1.8.7 Target Compound Identification

The raw data were evaluated for the level IV sample results. Target analyte identifications were acceptable.

4.1.8.8 Analytical Sensitivity

The raw data was evaluated for instrument sensitivity for the level IV sample results. The instrument sensitivity was determined to be technically acceptable. All laboratory reporting limits met the specified requirements described in the SAP.

4.1.9 Wet Chemistry (EPA Test Method 353.2, 353.2 modified, 7196, 9014)

The following sections describe the analytical elements that were evaluated for Nitrate-N by EPA Test Method 353.2, Nitrocellulose by EPA Test Method 353.2 modified, Total Cyanide by EPA Test Method 9014, and Hexavalent Chromium by EPA Test Method 7196.

4.1.9.1 Sample Preservation and Holding Time

Samples were properly stored in plastic containers. Samples analyzed for nitrate-N by EPA Test Method 353.2, nitrocellulose by EPA Test Method 353.2 modified, cyanide by EPA Test Method 9014, and hexavalent chromium by EPA Test Method 7196 were stored at a temperature of 4 ± 2 °C.

All samples met the 24 hour holding time for hexavalent chromium and the 28 day holding time criteria for water, soil, and sediment samples for all other analyses.

4.1.9.2 Instrument Calibration

Initial and continuing calibrations were analyzed at the required frequencies. The initial and continuing calibration factors were within acceptance limits of ≥ 0.995 for the correlation coefficient and 90-110 percent recovery for all analytes.

4.1.9.3 Blanks

Method blanks and calibration blanks were analyzed at the required frequencies. No target compounds were detected in the method or calibration blanks.

4.1.9.4 Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates were performed at the required frequency of one per 20 samples as described in the SAP. Percent recoveries and relative percent differences were within the acceptance limits with the exceptions listed below.

- One MS/MSD result exceeded percent recovery for cyanide, two for nitrate-N, and eleven for nitrocellulose. One cyanide, two nitrate-N, and seven nitrocellulose results were qualified as estimated (J) for detects and estimated (UJ) for non-detects and two nitrocellulose were qualified as rejected (R) due to low percent recovery. MS/MSD results are presented as Attachment 7.

4.1.9.5 Laboratory Control Samples

Laboratory control samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits.

4.1.9.6 Laboratory Duplicate Samples

Laboratory duplicate samples were performed at the required frequency of one per analytical batch as described in the SAP. Percent recoveries were within the acceptance limits.

4.1.9.7 Target Compound Identification

Chromatograms and mass spectra from the raw data were evaluated for the level IV sample results. Target compound identifications were acceptable.

4.1.9.8 Analytical Sensitivity

The raw data was evaluated for instrument sensitivity for the level IV sample results. The instrument sensitivity was determined to be technically acceptable. All laboratory reporting limits met the specified requirements described in the SAP.

4.2 Field Quality Control Samples

Field QC samples were collected to identify possible sampling artifacts originating from storage, shipping, site conditions, sampling equipment or laboratory handling. A summary of the field QC

samples is presented in Table 2.

4.2.1 Volatiles (EPA Test Method 8260B)

4.2.1.1 Field Duplicates

A total of 31 field duplicate pairs were collected and analyzed by EPA Test Method 8260B. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria with the exception of two results in two field duplicate pairs. In these duplicate pairs, one result was reported in either the duplicate samples at levels below the reporting limit or non-detected. Since the values reported in the primary or duplicate samples are considered to be estimates, the high RPDs in these duplicate pairs do not suggest a significant impact on the data quality, and the overall precision is considered acceptable. These field duplicate results are presented as Attachment 9. The following equation is used to determine the RPD.

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result
D2 = duplicate sample result

4.2.1.2 Trip Blanks

Forty-four trip blanks were collected and analyzed by EPA Test Method 8260B. Low levels of methylene chloride and acetone (i.e., 1.2 ug/L to 8.8 ug/L) were detected in 37 trip blanks. Associated samples were qualified as non-detect (U) due to trip blank detections. Trip blank results are presented as Attachment 10.

4.2.1.3 Equipment Blanks

Eleven equipment blanks were collected and analyzed by EPA Test Method 8260B. Low levels of carbon disulfide, m&p xylenes, total xylenes, and toluene (i.e., 1.1 ug/L to 2.7 ug/L) were detected in 5 equipment blanks. Associated samples were qualified as non-detect (U) due to equipment blank detections. Equipment blank results are presented as Attachment 10.

4.2.2 Semivolatiles (EPA Test Method 8270C)

4.2.2.1 Field Duplicates

A total of 34 field duplicate pairs were collected and analyzed by EPA Test Method 8270C. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria with the exception of four results in two field duplicate pairs. In these duplicate pairs the overall precision is considered acceptable. These field duplicate results are presented as Attachment 9. The following equation is used to determine the RPD.

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result

D2 = duplicate sample result

4.2.2.2 Equipment Blanks

Ten equipment blanks were collected and analyzed by EPA Test Method 8270C. Low levels of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl) phthalate, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene (i.e., 0.15 ug/L to 12 ug/L) were detected in three equipment blanks. Associated samples were qualified as non-detect (U) due to equipment blank detections. Equipment blank results are presented as Attachment 10.

4.2.3 Chlorinated Pesticides (EPA Test Method 8081)

4.2.3.1 Field Duplicates

A total of 29 field duplicate pairs were collected and analyzed by EPA Test Method 8081. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria. In these duplicate pairs the overall precision is considered acceptable. These field duplicate results are presented as Attachment 9. The following equation is used to determine the RPD.

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result
D2 = duplicate sample result

4.2.3.2 Equipment Blanks

Ten equipment blanks were collected and analyzed by EPA Test Method 8081. Low levels of 4,4'-DDT and 4,4'-DDE (i.e., 0.055 ug/L to 0.058 ug/L) were detected in one equipment blanks. Associated samples were qualified as non-detect (U) due to equipment blank detections. Equipment blank results are presented as Attachment 10.

4.2.4 Polychlorinated Biphenols (EPA Test Method 8082)

4.2.4.1 Field Duplicates

A total of 29 field duplicate pairs were collected and analyzed by EPA Test Method 8082. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria with the exception of one result in one field duplicate pair. In these duplicate pairs the overall precision is considered acceptable. These field duplicate results are presented as Attachment 9. The following equation is used to determine the RPD.

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result
D2 = duplicate sample result

4.2.4.2 Equipment Blanks

Ten equipment blanks were collected and analyzed by EPA Test Method 8082. No PCB contaminates were detected in these equipment blanks.

4.2.5 Explosives (EPA Test Method 8330 and 8332)

4.2.5.1 Field Duplicates

A total of 64 field duplicate pairs were collected and analyzed by EPA Test Method 8330 and 8332. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria with the exception of seven results in three field duplicate pairs. In these duplicate pairs, one result was reported in either the duplicate samples at levels below the reporting limit or non-detected. Since the values reported in the primary or duplicate samples are considered to be estimates, the high RPDs in these duplicate pairs do not suggest a significant impact on the data quality, and the overall precision is considered acceptable. These field duplicate results are presented as Attachment 9. The following equation is used to determine the RPD.

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result
D2 = duplicate sample result

4.2.5.2 Equipment Blanks

Fourteen equipment blanks were collected and analyzed by EPA Test Method 8330. No explosive contaminates were detected in these equipment blanks.

4.2.6 Diesel Range Organics (EPA Test Method 8015)

4.2.6.1 Field Duplicates

A total of two field duplicate pairs were collected and analyzed by EPA Test Method 8015. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria. In these duplicate pairs the overall precision is considered acceptable. The following equation is used to determine the RPD

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result
D2 = duplicate sample result

4.2.6.2 Equipment Blanks

One equipment blank was collected and analyzed by EPA Test Method 8082. No DRO contaminates were detected in this equipment blank.

4.2.7 Gasoline Range Organics (EPA Test Method 8015)

4.2.7.1 Field Duplicates

A total of two field duplicate pairs were collected and analyzed by EPA Test Method 8015. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria. In these duplicate pairs the overall precision is considered acceptable. The following equation is used to determine the RPD

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result
D2 = duplicate sample result

4.2.7.2 Equipment Blanks

One equipment blank was collected and analyzed by EPA Test Method 8082. No GRO contaminates were detected in this equipment blank.

4.2.8 Metals (EPA Test Method 6010B/7000)

4.2.8.1 Field Duplicates

Sixty-four field duplicate pairs were collected and analyzed by EPA Test Method 6010B/7000. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria with the exception of 78 results in three field duplicate pairs. In these duplicate pairs, 51 result was reported in either the duplicate samples at levels below the reporting limit or non-detected. Since the values reported in the primary or duplicate samples are considered to be estimates, the high RPDs in these duplicate pairs do not suggest a significant impact on the data quality, and the overall precision is considered acceptable. These field duplicate results are presented as Attachment 9. The following equation is used to determine the RPD

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result
D2 = duplicate sample result

4.2.8.2 Equipment blanks

Fourteen equipment blanks were collected and analyzed by EPA Test Method 6010B. Low levels of aluminum, barium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, silver, thallium, and zinc (i.e., 0.43 ug/L to 1200 ug/L) were detected in 14 equipment blanks. Associated samples were qualified as non-detect (U) due to equipment blank detections. Equipment blank results are presented as Attachment 10.

4.2.9 Wet Chemistry (EPA Test Method 353.2, 353.2 Modified, 7196, 9014)

4.2.9.1 Field Duplicates

A total of twenty-three field duplicate pairs were collected and analyzed by EPA Test Methods 353.2, 353.2 modified, 7196, and 9014. The RPD between the primary sample and its duplicate were evaluated. The RPDs were below the 50 percent criteria with the exception of two nitrate-N and one nitrocellulose result in three field duplicate pair. In these duplicate pairs, several results were reported in either the primary or duplicate samples at levels below the reporting limit or non-detected. Since the values reported in the primary or duplicate samples are considered to be estimates, the high RPDs in these duplicate pairs do not suggest a significant impact on the data quality, and the overall precision is considered acceptable. These field duplicate results are presented as Attachment 9. The following equation is used to determine the RPD

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where:

D1 = primary sample result
D2 = duplicate sample result

4.2.9.2 Equipment blanks

Three equipment blanks were collected and analyzed by EPA Test Method 353.2, 353.2 modified, 7196A, and 9014. Low levels of nitrate-N, nitrocellulose, hexavalent chromium (i.e., 0.14 mg/L to 1100 mg/L) were detected in three equipment blanks. Associated samples were qualified as non-detect (U) due to equipment blank detections. Equipment blank results are presented as Attachment 10.

5.0 QUALITY ASSURANCE SPLIT SAMPLES

A report detailing the Quality Assurance (QA) Split Samples collected during this monitoring period has been issued under separate cover.

6.0 ANALYTICAL PROCEDURES

6.1 Volatiles (EPA Test Method 8260B)

Two hundred eighty eight samples were collected and analyzed by EPA Test Method 8260B. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting limits met the specified requirements described in the SAP with limited exceptions. Reporting limits that did not meet the SAP limit are presented in Attachment 11.

6.2 Semivolatiles (EPA Test Method 8270C)

Two hundred seventy three samples were collected and analyzed by EPA Test Method 8270C. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting

limits met the specified requirements described in the SAP with limited exceptions. Reporting limits that did not meet the SAP limit are presented in Attachment 11.

6.3 Pesticides (EPA Test Method 8081A)

Two hundred twenty nine samples were collected and analyzed by EPA Test Method 8081A. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting limits met the specified requirements described in the SAP with limited exceptions. Reporting limits that did not meet the SAP limit are presented in Attachment 11.

6.4 PCBs (EPA Test Method 8082)

Two hundred twenty nine samples were collected and analyzed by EPA Test Method 8082. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting limits met the specified requirements described in the SAP with limited exceptions. Reporting limits that did not meet the SAP limit are presented in Attachment 11.

6.5 Explosives (EPA Test Method 8330 and 8332)

Five hundred forty three samples were collected and analyzed by EPA Test Method 8330. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting limits met the specified requirements described in the SAP with limited exceptions. Reporting limits that did not meet the SAP limit are presented in Attachment 11.

6.6 Diesel Range Organics (EPA Test Method 8015)

Eleven samples were collected and analyzed by EPA Test Method 8081A. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting limits met the specified requirements described in the SAP with limited exceptions. Reporting limits that did not meet the SAP limit are presented in Attachment 11.

6.7 Gasoline Range Organics (EPA Test Method 8015)

Twelve samples were collected and analyzed by EPA Test Method 8081A. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting limits met the specified requirements described in the SAP with limited exceptions. Reporting limits that did not meet the SAP limit are presented in Attachment 11.

6.8 Metals (EPA Test Method 6010B/7000)

Five hundred ninety six samples were collected and analyzed by EPA Test Method 8081A. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting limits met the specified requirements described in the SAP with limited exceptions. Reporting

limits that did not meet the SAP limit are presented in Attachment 11.

6.9 Wet Chemistry

Three hundred seventy seven samples were collected and analyzed by EPA Test Method 8081A. Method criteria and reporting limits are described in the SAP. The laboratory reporting limits were evaluated to verify project Data Quality Indicators (DQIs) were met. All laboratory reporting limits met the specified requirements described in the SAP with limited exceptions. Reporting limits that did not meet the SAP limit are presented in Attachment 11.

7.0 OVERSIGHT ACTIVITIES

7.1 Field

No field audits were conducted during the monitoring period.

7.2 Laboratory

No laboratory audits were conducted during the sampling period.

8.0 CHEMICAL DATA QUALITY

This section provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall data usability. A summary of the data qualifier definitions is provided as Attachment 11. The graphical presentation of the completeness summaries is provided as Attachment 12.

8.1 Summary Data Quality Assessment

The overall quality of the data was acceptable. Project DQIs, were met as described in the SAP. All holding times were met. All instrument performance checks and calibrations were performed as required. Calibration factors met the acceptance criteria with the exceptions described in Sections 4.1.1.2, 4.1.2.2, 4.1.3.2 Surrogate, internal standard, MS/MSD, and LCS were performed at the required frequency and percent recoveries were within acceptance criteria with the exceptions described in Sections 4.1.1.4, 4.1.3.4, 4.1.4.4, 4.1.5.4, 4.1.1.5, 4.1.2.5, 4.1.3.5, 4.1.5.5, 4.1.8.4, 4.1.9.4, 4.1.1.6, 4.1.2.6, 4.1.3.6, and 4.1.5.6 Method blanks and equipment blanks were performed at the required frequency and no contamination was detected with the exceptions described in Sections 4.1.2.3, 4.1.8.3, 4.2.1.3, 4.2.2.2, 42.3.2, 4.2.8.2, 4.2.9.2, and 4.2.1.2. Field duplicates were collected at the required frequency and analytical precision was considered acceptable with the exceptions described in Sections 4.2.1.1, 4.2.2.1, 4.2.3.1, 4.2.4.1, 4.2.5.1, 4.2.8.1, and 4.29.1.

8.2 Completeness Summary

As defined in the CDQMP, four types of completeness were calculated: (1) contract, (2) analytical, (3) technical, and (4) field sampling. As specified in the project DQIs, the goal for completeness for target analytes in each analytical fraction is 90 percent. The completeness results are provided as Attachment 12. The following equations are used to calculate the four types of completeness.

%Contract Completeness = (number of contract compliant results/number of reported results) X 100

%Analytical Completeness = (number of unqualified results/number of reported results) X 100

%Technical Completeness = (number of usable results/number of reported results) X 100

%Field Sampling Completeness = (number of samples collected/number of planned samples) X 100

The contract completeness calculation, which included the evaluation of the protocol and contract deviations for holding times, calibrations, MS/MSDs, and LCSs, attained for the field samples was 98.3 percent. Due to quality control exceedances, 955 out of 56623 results were qualified as estimated.

The analytical completeness calculation, which included all QC parameters, attained for the field samples was 97.3 percent. Due to quality control exceedances, 1512 out of 56623 results were qualified as estimated or non-detected.

The technical completeness calculation, which included all QC parameters, attained for the field samples was 99.5 percent. Due to quality control exceedances, 283 out of 56623 results were qualified as rejected.

The field sampling completeness calculation, which included all QC parameters, attained for the field samples was 100 percent.

9.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the sample results generated for the September 2004 through February 2005 sampling events established that the overall project requirements and completeness levels were met. The data is considered usable for the intended purpose.

10.0 REFERENCES

Laboratory Data Consultants, Inc., February 2003, *Automated Data Review, Version 6.2.*

EPA, 1999, *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA/540/R-99/012, Washington, D.C.

EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September1994; update IIB, January 1995; update III, December 1996

Louisville Chemistry Guideline, Version 5, June 2002, United States Army Corps of Engineers (USACE)-Louisville District

Facility Wide Sampling and Analysis Plan, Environmental Investigation at the Ravenna Army Ammunition Plant, Ravenna Ohio, March 2001